

Biological Process (127) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 1

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006412</a>	translation	3.310 %		-13.0978	0.78	0.00
<a href="#">GO:0006518</a>	peptide metabolic process	3.509 %		-12.6327	0.82	0.93
<a href="#">GO:0009059</a>	macromolecule biosynthetic process	17.035 %		-6.9829	0.84	0.64
<a href="#">GO:0044249</a>	cellular biosynthetic process	22.844 %		-3.7342	0.84	0.66
<a href="#">GO:0044271</a>	cellular nitrogen compound biosynthetic process	17.018 %		-7.0979	0.82	0.64
<a href="#">GO:0044267</a>	cellular protein metabolic process	17.229 %		-6.9904	0.85	0.52
<a href="#">GO:1901576</a>	organic substance biosynthetic process	22.969 %		-3.7026	0.85	0.72
<a href="#">GO:0006414</a>	translational elongation	0.363 %		-1.1741	0.82	0.73
<a href="#">GO:1901566</a>	organonitrogen compound biosynthetic process	6.073 %		-8.1400	0.82	0.72
<a href="#">GO:0043604</a>	amide biosynthetic process	3.591 %		-12.8673	0.81	0.93
<a href="#">GO:0034250</a>	positive regulation of cellular amide metabolic process	0.095 %		-1.1874	0.71	0.69
<a href="#">GO:0043043</a>	peptide biosynthetic process	3.328 %		-12.9538	0.80	0.95
<a href="#">GO:0045727</a>	positive regulation of translation	0.095 %		-1.1874	0.67	0.63
<a href="#">GO:0034645</a>	cellular macromolecule biosynthetic process	16.737 %		-7.1906	0.82	0.57
<a href="#">GO:0010269</a>	response to selenium ion	0.009 %		-2.1888	0.92	0.00
<a href="#">GO:0040011</a>	locomotion	0.164 %		-1.1133	0.98	0.00
<a href="#">GO:1900057</a>	positive regulation of leaf senescence	0.039 %		-4.1221	0.63	0.00
<a href="#">GO:2000024</a>	regulation of leaf development	0.224 %		-2.3532	0.65	0.75
<a href="#">GO:0023056</a>	positive regulation of signaling	0.332 %		-1.3506	0.74	0.78

<a href="#">GO:0046620</a>	regulation of organ growth	0.082 %	-1.2615	0.68	0.86
<a href="#">GO:0046622</a>	positive regulation of organ growth	0.017 %	-1.6482	0.67	0.81
<a href="#">GO:0051240</a>	positive regulation of multicellular organismal process	0.401 %	-3.6956	0.64	0.58
<a href="#">GO:0048831</a>	regulation of shoot system development	0.850 %	-1.2431	0.62	0.75
<a href="#">GO:0048584</a>	positive regulation of response to stimulus	0.902 %	-1.3801	0.71	0.59
<a href="#">GO:0048582</a>	positive regulation of post-embryonic development	0.319 %	-1.1242	0.61	0.81
<a href="#">GO:0048827</a>	phyllome development	1.921 %	-1.5042	0.73	0.78
<a href="#">GO:0048367</a>	shoot system development	3.599 %	-1.2700	0.73	0.64
<a href="#">GO:0048366</a>	leaf development	1.368 %	-2.1799	0.73	0.64
<a href="#">GO:0010647</a>	positive regulation of cell communication	0.350 %	-1.3260	0.75	0.78
<a href="#">GO:0010150</a>	leaf senescence	0.462 %	-3.4852	0.74	0.81
<a href="#">GO:0009787</a>	regulation of abscisic acid-activated signaling pathway	0.350 %	-1.1351	0.69	0.78
<a href="#">GO:0048639</a>	positive regulation of developmental growth	0.026 %	-1.6482	0.68	0.67
<a href="#">GO:0010338</a>	leaf formation	0.022 %	-1.1741	0.79	0.52
<a href="#">GO:0090693</a>	plant organ senescence	0.462 %	-3.4816	0.75	0.96
<a href="#">GO:0051094</a>	positive regulation of developmental process	0.436 %	-3.5291	0.66	0.54
<a href="#">GO:0009967</a>	positive regulation of signal transduction	0.332 %	-1.3506	0.67	0.69
<a href="#">GO:0010030</a>	positive regulation of seed germination	0.069 %	-1.0808	0.65	0.84
<a href="#">GO:0009939</a>	positive regulation of gibberellic acid mediated signaling pathway	0.026 %	-1.4813	0.70	0.81
<a href="#">GO:1901419</a>	regulation of response to alcohol	0.350 %	-1.1351	0.76	0.69
<a href="#">GO:1900055</a>	regulation of leaf senescence	0.104 %	-2.6529	0.66	0.87
<a href="#">GO:0010111</a>	glyoxysome organization	0.004 %	-1.6482	0.96	0.03
<a href="#">GO:0043335</a>	protein unfolding	0.004 %	-1.6482	0.97	0.03
<a href="#">GO:0000060</a>	protein import into nucleus, translocation	0.039 %	-1.7929	0.91	0.06
<a href="#">GO:0007338</a>	single fertilization	0.060 %	-1.3727	0.89	0.07
<a href="#">GO:0010183</a>	pollen tube guidance	0.117 %	-1.2228	0.70	0.60
<a href="#">GO:0050918</a>	positive chemotaxis	0.117 %	-1.2228	0.87	1.00
<a href="#">GO:0010483</a>	pollen tube reception	0.026 %	-1.2697	0.84	0.52
<a href="#">GO:0042330</a>	taxis	0.117 %	-1.2228	0.88	0.95
<a href="#">GO:0006935</a>	chemotaxis	0.117 %	-1.2228	0.87	1.00
<a href="#">GO:0001887</a>	selenium compound metabolic process	0.017 %	-1.6091	0.95	0.07
<a href="#">GO:0009058</a>	biosynthetic process	24.432 %	-3.7868	0.92	0.11
<a href="#">GO:0043462</a>	regulation of ATPase activity	0.026 %	-1.5248	0.85	0.11
<a href="#">GO:0016131</a>	brassinosteroid metabolic process	0.177 %	-1.1306	0.78	0.13
<a href="#">GO:0051555</a>	flavonol biosynthetic process	0.078 %	-1.1306	0.82	0.64
<a href="#">GO:0051553</a>	flavone biosynthetic process	0.082 %	-1.1306	0.83	0.98
<a href="#">GO:0051554</a>	flavonol metabolic process	0.082 %	-1.1248	0.84	0.99
<a href="#">GO:0051552</a>	flavone metabolic process	0.091 %	-1.1248	0.86	0.77
<a href="#">GO:0016128</a>	phytosteroid metabolic process	0.194 %	-1.1306	0.85	0.86
<a href="#">GO:0040009</a>	regulation of growth rate	0.013 %	-1.7144	0.85	0.13
<a href="#">GO:0009644</a>	response to high light intensity	0.324 %	-1.8385	0.90	0.13
<a href="#">GO:0009642</a>	response to light intensity	0.587 %	-1.3969	0.89	0.64
<a href="#">GO:0006807</a>	nitrogen compound metabolic process	27.303 %	-1.4506	0.92	0.19
<a href="#">GO:0000184</a>	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay	0.073 %	-1.5098	0.90	0.19
<a href="#">GO:0048518</a>	positive regulation of biological process	4.398 %	-2.2168	0.82	0.19
<a href="#">GO:0010266</a>	response to vitamin B1	0.009 %	-1.8891	0.89	0.20
<a href="#">GO:0033273</a>	response to vitamin	0.026 %	-1.4813	0.89	0.87
<a href="#">GO:0007584</a>	response to nutrient	0.047 %	-1.0605	0.89	0.59
<a href="#">GO:0018283</a>	iron incorporation into metallo-sulfur cluster	0.009 %	-2.4891	0.88	0.23
<a href="#">GO:0006534</a>	cysteine metabolic process	0.134 %	-1.0556	0.82	0.53
<a href="#">GO:0018282</a>	metal incorporation into metallo-sulfur cluster	0.009 %	-2.4891	0.91	0.70
<a href="#">GO:0010467</a>	gene expression	18.304 %	-6.8895	0.89	0.23
<a href="#">GO:0010076</a>	maintenance of floral meristem identity	0.026 %	-1.6282	0.80	0.25
<a href="#">GO:0010582</a>	floral meristem determinacy	0.052 %	-1.1874	0.75	0.71
<a href="#">GO:0010073</a>	meristem maintenance	0.427 %	-1.0945	0.77	0.67
<a href="#">GO:0010077</a>	maintenance of inflorescence meristem identity	0.039 %	-1.4953	0.80	0.80
<a href="#">GO:0010022</a>	meristem determinacy	0.056 %	-1.1874	0.79	0.72
<a href="#">GO:0006817</a>	phosphate ion transport	0.160 %	-1.1487	0.92	0.27
<a href="#">GO:0043170</a>	macromolecule metabolic process	38.032 %	-1.2666	0.90	0.27
<a href="#">GO:0007568</a>	aging	0.544 %	-2.9319	0.81	0.28
<a href="#">GO:0043603</a>	cellular amide metabolic process	3.897 %	-12.3510	0.88	0.31
<a href="#">GO:0007031</a>	peroxisome organization	0.147 %	-1.0053	0.95	0.31
<a href="#">GO:0009955</a>	adaxial/abaxial pattern specification	0.151 %	-1.9295	0.81	0.32
<a href="#">GO:0010219</a>	regulation of vernalization response	0.022 %	-1.8226	0.78	0.33
<a href="#">GO:0010220</a>	positive regulation of vernalization response	0.013 %	-1.8226	0.74	0.84
<a href="#">GO:1901564</a>	organonitrogen compound metabolic process	8.541 %	-6.2337	0.88	0.33
<a href="#">GO:0019538</a>	protein metabolic process	19.012 %	-6.6363	0.89	0.36
<a href="#">GO:0071294</a>	cellular response to zinc ion	0.025 %	-2.1888	0.89	0.36
<a href="#">GO:0009814</a>	defense response, incompatible interaction	0.725 %	-1.2992	0.88	0.36
<a href="#">GO:0048569</a>	post-embryonic animal organ development	0.572 %	-1.8891	0.76	0.37
<a href="#">GO:0050793</a>	regulation of developmental process	2.577 %	-1.6775	0.71	0.41
<a href="#">GO:0008284</a>	positive regulation of cell proliferation	0.129 %	-1.0053	0.76	0.41
<a href="#">GO:0051703</a>	intraspecies interaction between organisms	0.026 %	-1.2697	0.96	0.42

<a href="#">GO:0051239</a>	regulation of multicellular organismal process	1.972 %	-1.6832	0.71	0.42
<a href="#">GO:0044260</a>	cellular macromolecule metabolic process	35.028 %	-1.5940	0.86	0.44
<a href="#">GO:0042542</a>	response to hydrogen peroxide	0.268 %	-1.0612	0.88	0.45
<a href="#">GO:0006635</a>	fatty acid beta-oxidation	0.147 %	-1.0184	0.86	0.45
<a href="#">GO:0035265</a>	organ growth	0.117 %	-1.1487	0.79	0.46
<a href="#">GO:1902039</a>	negative regulation of seed dormancy process	0.009 %	-1.6912	0.64	0.46
<a href="#">GO:2000034</a>	regulation of seed maturation	0.060 %	-1.1487	0.67	0.83
<a href="#">GO:2000033</a>	regulation of seed dormancy process	0.039 %	-1.4295	0.66	0.90
<a href="#">GO:0048838</a>	release of seed from dormancy	0.009 %	-1.5248	0.78	0.70
<a href="#">GO:2000692</a>	negative regulation of seed maturation	0.017 %	-1.5098	0.63	0.82
<a href="#">GO:0097438</a>	exit from dormancy	0.009 %	-1.5248	0.83	0.70
<a href="#">GO:0009266</a>	response to temperature stimulus	2.287 %	-1.6799	0.89	0.49
<a href="#">GO:0010048</a>	vernalization response	0.065 %	-1.3835	0.89	0.64
<a href="#">GO:0009409</a>	response to cold	1.580 %	-1.3809	0.87	0.59
<a href="#">GO:0009408</a>	response to heat	0.859 %	-1.0598	0.88	0.83
<a href="#">GO:0034641</a>	cellular nitrogen compound metabolic process	25.404 %	-1.6787	0.85	0.49
<a href="#">GO:0006469</a>	negative regulation of protein kinase activity	0.134 %	-1.4175	0.66	0.50
<a href="#">GO:0001933</a>	negative regulation of protein phosphorylation	0.134 %	-1.4175	0.69	0.99
<a href="#">GO:0042326</a>	negative regulation of phosphorylation	0.138 %	-1.4059	0.72	0.97
<a href="#">GO:0034763</a>	negative regulation of transmembrane transport	0.017 %	-1.4059	0.75	0.95
<a href="#">GO:0010360</a>	negative regulation of anion channel activity	0.017 %	-1.4059	0.71	0.59
<a href="#">GO:0034766</a>	negative regulation of ion transmembrane transport	0.017 %	-1.4059	0.74	1.00
<a href="#">GO:1903960</a>	negative regulation of anion transmembrane transport	0.017 %	-1.4059	0.74	1.00
<a href="#">GO:0045936</a>	negative regulation of phosphate metabolic process	0.164 %	-1.2535	0.72	0.99
<a href="#">GO:0051051</a>	negative regulation of transport	0.026 %	-1.1676	0.78	0.60
<a href="#">GO:0050790</a>	regulation of catalytic activity	2.257 %	-1.0531	0.79	0.70
<a href="#">GO:0043086</a>	negative regulation of catalytic activity	1.019 %	-1.0967	0.79	0.86
<a href="#">GO:0051348</a>	negative regulation of transferase activity	0.151 %	-1.4059	0.82	0.80
<a href="#">GO:0032410</a>	negative regulation of transporter activity	0.017 %	-1.4059	0.72	0.95
<a href="#">GO:0032413</a>	negative regulation of ion transmembrane transporter activity	0.017 %	-1.4059	0.71	1.00
<a href="#">GO:1903792</a>	negative regulation of anion transport	0.017 %	-1.4059	0.74	0.95
<a href="#">GO:0010563</a>	negative regulation of phosphorus metabolic process	0.164 %	-1.2535	0.73	0.79
<a href="#">GO:0033673</a>	negative regulation of kinase activity	0.134 %	-1.4175	0.69	0.99
<a href="#">GO:0043271</a>	negative regulation of ion transport	0.026 %	-1.1676	0.74	0.98
<a href="#">GO:0031400</a>	negative regulation of protein modification process	0.220 %	-1.1426	0.71	0.78

Biological Process (213) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP2

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009833</a>	plant-type primary cell wall biogenesis	0.091 %		-6.4235	0.77	0.00
<a href="#">GO:0000281</a>	mitotic cytokinesis	0.311 %		-4.3526	0.82	0.89
<a href="#">GO:0000278</a>	mitotic cell cycle	1.152 %		-3.5151	0.81	0.80
<a href="#">GO:0042546</a>	cell wall biogenesis	0.928 %		-2.8764	0.86	0.80
<a href="#">GO:0042545</a>	cell wall modification	0.561 %		-1.3249	0.87	0.80
<a href="#">GO:0044723</a>	single-organism carbohydrate metabolic process	2.283 %		-2.5454	0.72	0.75
<a href="#">GO:0016051</a>	carbohydrate biosynthetic process	1.442 %		-2.8428	0.68	0.71
<a href="#">GO:0000271</a>	polysaccharide biosynthetic process	0.868 %		-3.5696	0.67	0.83
<a href="#">GO:0051274</a>	beta-glucan biosynthetic process	0.272 %		-5.2816	0.67	0.95
<a href="#">GO:0051273</a>	beta-glucan metabolic process	0.393 %		-4.9337	0.80	0.82
<a href="#">GO:0044264</a>	cellular polysaccharide metabolic process	1.187 %		-3.1054	0.79	0.86
<a href="#">GO:0044262</a>	cellular carbohydrate metabolic process	1.817 %		-3.1647	0.81	0.60
<a href="#">GO:0044036</a>	cell wall macromolecule metabolic process	0.665 %		-2.4746	0.83	0.77
<a href="#">GO:0044042</a>	glucan metabolic process	0.962 %		-3.5696	0.81	0.75
<a href="#">GO:0071669</a>	plant-type cell wall organization or biogenesis	1.152 %		-2.4716	0.87	0.82

<a href="#">GO:0030244</a>	cellulose biosynthetic process	0.216 %	-5.8983	0.67	0.93
<a href="#">GO:0030243</a>	cellulose metabolic process	0.337 %	-5.4396	0.80	0.60
<a href="#">GO:0000910</a>	cytokinesis	0.384 %	-4.0716	0.83	0.66
<a href="#">GO:0052386</a>	cell wall thickening	0.134 %	-1.8907	0.87	0.69
<a href="#">GO:0009664</a>	plant-type cell wall organization	0.652 %	-2.4383	0.86	0.87
<a href="#">GO:0045488</a>	pectin metabolic process	0.647 %	-2.4274	0.82	0.83
<a href="#">GO:0061640</a>	cytoskeleton-dependent cytokinesis	0.332 %	-4.1177	0.82	0.97
<a href="#">GO:0071555</a>	cell wall organization	2.430 %	-3.5267	0.85	0.62
<a href="#">GO:0009250</a>	glucan biosynthetic process	0.509 %	-4.4754	0.65	0.86
<a href="#">GO:0052545</a>	callose localization	0.155 %	-1.8742	0.94	0.93
<a href="#">GO:0052546</a>	cell wall pectin metabolic process	0.095 %	-3.7246	0.76	0.67
<a href="#">GO:0052542</a>	defense response by callose deposition	0.091 %	-1.9607	0.81	0.95
<a href="#">GO:0052543</a>	callose deposition in cell wall	0.117 %	-1.9868	0.83	0.96
<a href="#">GO:0052544</a>	defense response by callose deposition in cell wall	0.069 %	-2.0748	0.71	0.74
<a href="#">GO:0009832</a>	plant-type cell wall biogenesis	0.626 %	-3.0562	0.86	0.84
<a href="#">GO:0009834</a>	plant-type secondary cell wall biogenesis	0.263 %	-4.2365	0.87	0.78
<a href="#">GO:0010400</a>	rhamnogalacturonan I side chain metabolic process	0.009 %	-5.6548	0.79	0.76
<a href="#">GO:0010395</a>	rhamnogalacturonan I metabolic process	0.013 %	-5.6548	0.78	0.55
<a href="#">GO:0010393</a>	galacturonan metabolic process	0.652 %	-2.4059	0.82	0.80
<a href="#">GO:0006073</a>	cellular glucan metabolic process	0.937 %	-3.5696	0.79	0.92
<a href="#">GO:0052482</a>	defense response by cell wall thickening	0.069 %	-2.0748	0.74	0.91
<a href="#">GO:1903047</a>	mitotic cell cycle process	1.083 %	-3.6795	0.81	0.79
<a href="#">GO:0022402</a>	cell cycle process	1.713 %	-2.6281	0.81	0.84
<a href="#">GO:0034637</a>	cellular carbohydrate biosynthetic process	0.915 %	-3.3287	0.65	0.89
<a href="#">GO:0005976</a>	polysaccharide metabolic process	1.899 %	-2.5086	0.83	0.75
<a href="#">GO:0033692</a>	cellular polysaccharide biosynthetic process	0.729 %	-3.7677	0.65	0.92
<a href="#">GO:0030104</a>	<b>water homeostasis</b>	<b>0.052 %</b>	<b>-2.6734</b>	<b>0.95</b>	<b>0.00</b>
<a href="#">GO:0042592</a>	homeostatic process	2.637 %	-1.0703	0.95	0.69
<a href="#">GO:0048878</a>	chemical homeostasis	1.765 %	-1.4832	0.94	0.61
<a href="#">GO:0042742</a>	<b>defense response to bacterium</b>	<b>1.476 %</b>	<b>-4.7996</b>	<b>0.79</b>	<b>0.00</b>
<a href="#">GO:0043207</a>	response to external biotic stimulus	4.981 %	-2.6298	0.80	0.94
<a href="#">GO:0051707</a>	response to other organism	4.968 %	-2.6298	0.79	0.92
<a href="#">GO:0031348</a>	negative regulation of defense response	0.203 %	-1.9042	0.83	0.50
<a href="#">GO:0048585</a>	negative regulation of response to stimulus	0.699 %	-1.1092	0.85	0.64
<a href="#">GO:0050832</a>	defense response to fungus	2.236 %	-2.2372	0.78	0.81
<a href="#">GO:0009627</a>	systemic acquired resistance	0.281 %	-1.6584	0.82	0.81
<a href="#">GO:0009620</a>	response to fungus	2.521 %	-1.7311	0.81	0.83
<a href="#">GO:0009617</a>	response to bacterium	1.748 %	-4.2242	0.82	0.69
<a href="#">GO:0098542</a>	defense response to other organism	4.044 %	-3.2374	0.77	0.79
<a href="#">GO:0009814</a>	defense response, incompatible interaction	0.725 %	-1.0015	0.80	0.76
<a href="#">GO:0009817</a>	defense response to fungus, incompatible interaction	0.207 %	-1.9681	0.82	0.59
<a href="#">GO:0044699</a>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-2.0243</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-2.2591</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0051704</a>	<b>multi-organism process</b>	<b>3.362 %</b>	<b>-1.4786</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0080170</a>	hydrogen peroxide transmembrane transport	0.022 %	-5.1423	0.96	0.00
<a href="#">GO:0042436</a>	indole-containing compound catabolic process	0.039 %	-2.9290	0.84	0.03
<a href="#">GO:0071554</a>	cell wall organization or biogenesis	3.168 %	-3.1867	0.95	0.04
<a href="#">GO:0005975</a>	carbohydrate metabolic process	4.670 %	-2.0749	0.91	0.07
<a href="#">GO:0006091</a>	generation of precursor metabolites and energy	1.459 %	-2.0432	0.91	0.07
<a href="#">GO:0010191</a>	mucilage metabolic process	0.142 %	-1.0216	0.92	0.08
<a href="#">GO:0009765</a>	<b>photosynthesis, light harvesting</b>	<b>0.160 %</b>	<b>-2.1409</b>	<b>0.91</b>	<b>0.08</b>
<a href="#">GO:0009768</a>	photosynthesis, light harvesting in photosystem I	0.095 %	-1.7448	0.91	0.79
<a href="#">GO:0019684</a>	photosynthesis, light reaction	0.505 %	-1.3600	0.90	0.77
<a href="#">GO:0010150</a>	<b>leaf senescence</b>	<b>0.462 %</b>	<b>-1.2497</b>	<b>0.91</b>	<b>0.08</b>
<a href="#">GO:0090693</a>	plant organ senescence	0.462 %	-1.2483	0.91	0.96
<a href="#">GO:0009812</a>	flavonoid metabolic process	0.414 %	-1.4342	0.93	0.08
<a href="#">GO:0015979</a>	photosynthesis	1.057 %	-1.0150	0.91	0.09
<a href="#">GO:1901615</a>	organic hydroxy compound metabolic process	1.265 %	-1.2183	0.93	0.10
<a href="#">GO:1901135</a>	carbohydrate derivative metabolic process	3.375 %	-1.4794	0.92	0.11
<a href="#">GO:0071941</a>	nitrogen cycle metabolic process	0.207 %	-1.2808	0.93	0.13
<a href="#">GO:0044710</a>	single-organism metabolic process	18.390 %	-4.0891	0.86	0.14
<a href="#">GO:0071366</a>	<b>cellular response to indolebutyric acid stimulus</b>	<b>0.009 %</b>	<b>-3.1460</b>	<b>0.82</b>	<b>0.15</b>
<a href="#">GO:1901699</a>	cellular response to nitrogen compound	0.470 %	-1.5526	0.78	0.86
<a href="#">GO:0080026</a>	response to indolebutyric acid	0.022 %	-2.7002	0.84	0.54
<a href="#">GO:0071365</a>	cellular response to auxin stimulus	0.932 %	-1.2090	0.77	0.61
<a href="#">GO:0071417</a>	cellular response to organonitrogen compound	0.147 %	-2.4992	0.79	0.67
<a href="#">GO:0010243</a>	response to organonitrogen compound	0.768 %	-1.5931	0.81	0.77
<a href="#">GO:2001057</a>	reactive nitrogen species metabolic process	0.203 %	-1.2542	0.93	0.15
<a href="#">GO:0009058</a>	biosynthetic process	24.432 %	-1.5900	0.92	0.16
<a href="#">GO:0010196</a>	nonphotochemical quenching	0.043 %	-1.6170	0.87	0.17
<a href="#">GO:0009699</a>	<b>phenylpropanoid biosynthetic process</b>	<b>0.337 %</b>	<b>-3.3504</b>	<b>0.69</b>	<b>0.18</b>
<a href="#">GO:0010116</a>	positive regulation of abscisic acid biosynthetic process	0.017 %	-1.9033	0.69	0.54

<a href="#">GO:0010115</a>	regulation of abscisic acid biosynthetic process	0.030 %	-1.3796	0.68	0.91
<a href="#">GO:1901141</a>	regulation of lignin biosynthetic process	0.030 %	-3.0172	0.72	0.76
<a href="#">GO:1901617</a>	organic hydroxy compound biosynthetic process	0.824 %	-1.7069	0.83	0.64
<a href="#">GO:0044550</a>	secondary metabolite biosynthetic process	1.183 %	-2.6979	0.71	0.80
<a href="#">GO:1901599</a>	(-)-pinosresinol biosynthetic process	0.009 %	-2.1574	0.73	0.70
<a href="#">GO:1901598</a>	(-)-pinosresinol metabolic process	0.009 %	-2.0785	0.75	0.90
<a href="#">GO:0009688</a>	abscisic acid biosynthetic process	0.091 %	-1.1749	0.70	0.93
<a href="#">GO:0009687</a>	abscisic acid metabolic process	0.125 %	-1.0333	0.73	0.98
<a href="#">GO:0009698</a>	phenylpropanoid metabolic process	0.505 %	-2.9476	0.73	0.70
<a href="#">GO:2000762</a>	regulation of phenylpropanoid metabolic process	0.069 %	-2.6474	0.74	0.83
<a href="#">GO:0043455</a>	regulation of secondary metabolic process	0.173 %	-3.2315	0.78	0.64
<a href="#">GO:0018958</a>	phenol-containing compound metabolic process	0.190 %	-1.3335	0.84	0.78
<a href="#">GO:0046189</a>	phenol-containing compound biosynthetic process	0.104 %	-1.3335	0.81	0.77
<a href="#">GO:0051555</a>	flavonol biosynthetic process	0.078 %	-1.3151	0.75	0.72
<a href="#">GO:0051553</a>	flavone biosynthetic process	0.082 %	-1.3151	0.78	0.98
<a href="#">GO:0051554</a>	flavonol metabolic process	0.082 %	-1.3092	0.79	0.99
<a href="#">GO:0051552</a>	flavone metabolic process	0.091 %	-1.3092	0.82	0.77
<a href="#">GO:0009806</a>	lignan metabolic process	0.022 %	-1.9542	0.77	0.74
<a href="#">GO:0009808</a>	lignin metabolic process	0.285 %	-2.6132	0.73	0.91
<a href="#">GO:0009807</a>	lignan biosynthetic process	0.022 %	-1.9542	0.74	0.95
<a href="#">GO:0009809</a>	lignin biosynthetic process	0.181 %	-2.9317	0.70	0.88
<a href="#">GO:0046148</a>	pigment biosynthetic process	0.639 %	-1.2183	0.80	0.80
<a href="#">GO:1900376</a>	regulation of secondary metabolite biosynthetic process	0.078 %	-2.4781	0.74	0.88
<a href="#">GO:0010192</a>	mucilage biosynthetic process	0.121 %	-1.2149	0.88	0.18
<a href="#">GO:0051301</a>	cell division	1.528 %	-2.2940	0.84	0.23
<a href="#">GO:0015850</a>	organic hydroxy compound transport	0.086 %	-3.1460	0.90	0.25
<a href="#">GO:0033037</a>	polysaccharide localization	0.168 %	-1.8742	0.95	0.27
<a href="#">GO:0019748</a>	secondary metabolic process	1.938 %	-2.1238	0.80	0.29
<a href="#">GO:0007049</a>	cell cycle	2.525 %	-2.0357	0.83	0.29
<a href="#">GO:0010035</a>	response to inorganic substance	3.699 %	-2.3376	0.80	0.29
<a href="#">GO:1901700</a>	response to oxygen-containing compound	6.504 %	-3.4953	0.79	0.61
<a href="#">GO:0010033</a>	response to organic substance	8.580 %	-1.3763	0.78	0.70
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-2.8445	0.79	0.64
<a href="#">GO:0045229</a>	external encapsulating structure organization	2.577 %	-3.0999	0.90	0.31
<a href="#">GO:0042440</a>	pigment metabolic process	0.785 %	-1.8657	0.82	0.31
<a href="#">GO:1901140</a>	p-coumaryl alcohol transport	0.004 %	-3.2618	0.91	0.33
<a href="#">GO:0042430</a>	indole-containing compound metabolic process	0.384 %	-1.7365	0.84	0.34
<a href="#">GO:0009750</a>	response to fructose	0.069 %	-1.0216	0.85	0.35
<a href="#">GO:0010027</a>	thylakoid membrane organization	0.164 %	-1.0159	0.83	0.35
<a href="#">GO:0009668</a>	plastid membrane organization	0.168 %	-1.0159	0.83	0.73
<a href="#">GO:0007568</a>	aging	0.544 %	-1.0367	0.92	0.35
<a href="#">GO:0009095</a>	aromatic amino acid family biosynthetic process, prephenate pathway	0.047 %	-1.5288	0.71	0.36
<a href="#">GO:0016053</a>	organic acid biosynthetic process	2.296 %	-1.0419	0.66	0.81
<a href="#">GO:0009073</a>	aromatic amino acid family biosynthetic process	0.207 %	-1.1502	0.68	0.85
<a href="#">GO:0009072</a>	aromatic amino acid family metabolic process	0.302 %	-1.0245	0.72	0.64
<a href="#">GO:0009082</a>	branched-chain amino acid biosynthetic process	0.104 %	-1.3727	0.71	0.88
<a href="#">GO:0009081</a>	branched-chain amino acid metabolic process	0.173 %	-1.2594	0.74	0.56
<a href="#">GO:0009094</a>	L-phenylalanine biosynthetic process	0.039 %	-1.6170	0.71	0.94
<a href="#">GO:0009097</a>	isoleucine biosynthetic process	0.056 %	-1.4395	0.72	0.76
<a href="#">GO:1901607</a>	alpha-amino acid biosynthetic process	0.833 %	-1.3422	0.66	0.75
<a href="#">GO:0006571</a>	tyrosine biosynthetic process	0.022 %	-1.6423	0.73	0.77
<a href="#">GO:0006570</a>	tyrosine metabolic process	0.047 %	-1.4908	0.75	0.76
<a href="#">GO:0006558</a>	L-phenylalanine metabolic process	0.073 %	-1.4160	0.74	0.96
<a href="#">GO:0006549</a>	isoleucine metabolic process	0.056 %	-1.4395	0.75	0.85
<a href="#">GO:0044273</a>	sulfur compound catabolic process	0.173 %	-2.6822	0.87	0.37
<a href="#">GO:0016145</a>	S-glycoside catabolic process	0.104 %	-2.9411	0.76	0.63
<a href="#">GO:0016143</a>	S-glycoside metabolic process	0.514 %	-2.6389	0.76	0.72
<a href="#">GO:1901658</a>	glycosyl compound catabolic process	0.211 %	-2.4177	0.78	0.87
<a href="#">GO:0042344</a>	indole glucosinolate catabolic process	0.017 %	-2.9411	0.71	0.82
<a href="#">GO:0042343</a>	indole glucosinolate metabolic process	0.125 %	-2.6389	0.69	0.77
<a href="#">GO:0006950</a>	response to stress	14.156 %	-3.4387	0.82	0.38
<a href="#">GO:1901136</a>	carbohydrate derivative catabolic process	0.337 %	-2.0790	0.88	0.38
<a href="#">GO:1901657</a>	glycosyl compound metabolic process	1.912 %	-1.4975	0.78	0.68
<a href="#">GO:0071452</a>	cellular response to singlet oxygen	0.022 %	-1.6423	0.79	0.39
<a href="#">GO:0000304</a>	response to singlet oxygen	0.039 %	-1.4730	0.83	0.61
<a href="#">GO:0036473</a>	cell death in response to oxidative stress	0.026 %	-1.5818	0.73	0.64
<a href="#">GO:0097468</a>	programmed cell death in response to reactive oxygen species	0.026 %	-1.5818	0.72	0.74
<a href="#">GO:0010343</a>	singlet oxygen-mediated programmed cell death	0.013 %	-1.7448	0.73	0.96
<a href="#">GO:0009409</a>	response to cold	1.580 %	-2.1362	0.80	0.40
<a href="#">GO:0097305</a>	response to alcohol	2.469 %	-1.0307	0.79	0.64
<a href="#">GO:0009582</a>	detection of abiotic stimulus	0.311 %	-1.0841	0.84	0.94

<a href="#">GO:0009581</a>	detection of external stimulus	0.311 %	-1.0841	0.84	0.93
<a href="#">GO:0009583</a>	detection of light stimulus	0.268 %	-1.2919	0.81	0.72
<a href="#">GO:0050826</a>	response to freezing	0.086 %	-1.3335	0.84	0.66
<a href="#">GO:0010038</a>	response to metal ion	1.938 %	-1.3664	0.80	0.77
<a href="#">GO:0009651</a>	response to salt stress	2.270 %	-1.5235	0.80	0.62
<a href="#">GO:0009753</a>	response to jasmonic acid	0.919 %	-1.5943	0.81	0.63
<a href="#">GO:0009266</a>	response to temperature stimulus	2.287 %	-1.4874	0.82	0.62
<a href="#">GO:0009737</a>	response to abscisic acid	2.443 %	-1.0376	0.79	0.71
<a href="#">GO:0009725</a>	response to hormone	6.871 %	-1.6212	0.77	0.76
<a href="#">GO:0070417</a>	cellular response to cold	0.147 %	-1.0130	0.79	0.69
<a href="#">GO:0009314</a>	response to radiation	2.892 %	-1.2679	0.81	0.65
<a href="#">GO:0046686</a>	response to cadmium ion	1.368 %	-1.1802	0.81	0.74
<a href="#">GO:0006970</a>	response to osmotic stress	2.512 %	-1.9263	0.80	0.60
<a href="#">GO:0009414</a>	response to water deprivation	1.390 %	-1.6520	0.75	0.55
<a href="#">GO:0009415</a>	response to water	1.416 %	-1.6250	0.77	0.74
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %	-1.2929	0.81	0.64
<a href="#">GO:0071497</a>	cellular response to freezing	0.013 %	-1.7617	0.83	0.56
<a href="#">GO:0009607</a>	<b>response to biotic stimulus</b>	<b>5.158 %</b>	<b>-2.5723</b>	<b>0.84</b>	<b>0.41</b>
<a href="#">GO:0042128</a>	<b>nitrate assimilation</b>	<b>0.181 %</b>	<b>-1.4315</b>	<b>0.76</b>	<b>0.41</b>
<a href="#">GO:0042126</a>	nitrate metabolic process	0.181 %	-1.4315	0.76	0.98
<a href="#">GO:0006082</a>	organic acid metabolic process	5.015 %	-1.5080	0.71	0.52
<a href="#">GO:0006413</a>	<b>translational initiation</b>	<b>0.501 %</b>	<b>-1.0245</b>	<b>0.81</b>	<b>0.41</b>
<a href="#">GO:0006833</a>	<b>water transport</b>	<b>0.194 %</b>	<b>-2.4242</b>	<b>0.89</b>	<b>0.42</b>
<a href="#">GO:0055085</a>	transmembrane transport	5.175 %	-1.0656	0.94	0.64
<a href="#">GO:0044765</a>	single-organism transport	5.287 %	-1.1619	0.86	0.60
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.1165	0.86	0.63
<a href="#">GO:0044711</a>	<b>single-organism biosynthetic process</b>	<b>7.549 %</b>	<b>-3.3628</b>	<b>0.75</b>	<b>0.42</b>
<a href="#">GO:0009059</a>	macromolecule biosynthetic process	17.035 %	-1.4058	0.82	0.66
<a href="#">GO:0044249</a>	cellular biosynthetic process	22.844 %	-1.9184	0.80	0.52
<a href="#">GO:1901576</a>	organic substance biosynthetic process	22.969 %	-1.9002	0.82	0.72
<a href="#">GO:0019438</a>	aromatic compound biosynthetic process	14.247 %	-1.1120	0.79	0.62
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-1.0643	0.81	0.63
<a href="#">GO:0034645</a>	cellular macromolecule biosynthetic process	16.737 %	-1.4414	0.79	0.65
<a href="#">GO:0009605</a>	<b>response to external stimulus</b>	<b>6.366 %</b>	<b>-2.3322</b>	<b>0.84</b>	<b>0.42</b>
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-1.2621</b>	<b>0.83</b>	<b>0.44</b>
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-2.5557</b>	<b>0.83</b>	<b>0.45</b>
<a href="#">GO:0042044</a>	<b>fluid transport</b>	<b>0.194 %</b>	<b>-2.4242</b>	<b>0.89</b>	<b>0.45</b>
<a href="#">GO:1990066</a>	<b>energy quenching</b>	<b>0.043 %</b>	<b>-1.6170</b>	<b>0.87</b>	<b>0.45</b>
<a href="#">GO:0033554</a>	<b>cellular response to stress</b>	<b>3.772 %</b>	<b>-1.0744</b>	<b>0.77</b>	<b>0.45</b>
<a href="#">GO:0006952</a>	defense response	6.090 %	-2.3463	0.80	0.55
<a href="#">GO:1901698</a>	<b>response to nitrogen compound</b>	<b>1.174 %</b>	<b>-1.8927</b>	<b>0.82</b>	<b>0.47</b>
<a href="#">GO:0046700</a>	<b>heterocycle catabolic process</b>	<b>0.785 %</b>	<b>-1.5009</b>	<b>0.87</b>	<b>0.47</b>
<a href="#">GO:0044270</a>	cellular nitrogen compound catabolic process	0.785 %	-1.4851	0.85	0.55
<a href="#">GO:0019439</a>	aromatic compound catabolic process	0.898 %	-1.3390	0.85	0.56
<a href="#">GO:1901565</a>	<b>organonitrogen compound catabolic process</b>	<b>0.811 %</b>	<b>-1.3327</b>	<b>0.84</b>	<b>0.48</b>
<a href="#">GO:0044712</a>	single-organism catabolic process	2.676 %	-1.0309	0.76	0.56
<a href="#">GO:1901361</a>	organic cyclic compound catabolic process	0.937 %	-1.2638	0.86	0.51
<a href="#">GO:0051480</a>	<b>regulation of cytosolic calcium ion concentration</b>	<b>0.017 %</b>	<b>-1.7129</b>	<b>0.84</b>	<b>0.49</b>
<a href="#">GO:0055074</a>	calcium ion homeostasis	0.060 %	-1.1232	0.94	0.81
<a href="#">GO:0006874</a>	cellular calcium ion homeostasis	0.047 %	-1.3212	0.83	0.91
<a href="#">GO:0010617</a>	circadian regulation of calcium ion oscillation	0.013 %	-1.7286	0.84	0.87
<a href="#">GO:0072503</a>	cellular divalent inorganic cation homeostasis	0.099 %	-1.0675	0.82	0.91
<a href="#">GO:0042221</a>	<b>response to chemical</b>	<b>12.434 %</b>	<b>-3.2402</b>	<b>0.82</b>	<b>0.49</b>
<a href="#">GO:0009733</a>	<b>response to auxin</b>	<b>1.709 %</b>	<b>-1.2250</b>	<b>0.81</b>	<b>0.50</b>
<a href="#">GO:0014070</a>	response to organic cyclic compound	1.606 %	-1.0399	0.81	0.55

Biological Process (188) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 3

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006412</a>	translation	3.310 %		-27.6632	0.74	0.00
<a href="#">GO:0032270</a>	positive regulation of cellular protein metabolic process	0.699 %		-1.0583	0.80	0.82
<a href="#">GO:0002181</a>	cytoplasmic translation	0.207 %		-2.1977	0.80	0.69

<a href="#">GO:0006518</a>	peptide metabolic process	3.509 %	-26.5330	0.80	0.93
<a href="#">GO:1901566</a>	organonitrogen compound biosynthetic process	6.073 %	-17.9681	0.79	0.72
<a href="#">GO:0043604</a>	amide biosynthetic process	3.591 %	-27.1027	0.80	0.93
<a href="#">GO:0034250</a>	positive regulation of cellular amide metabolic process	0.095 %	-1.7761	0.81	0.69
<a href="#">GO:0043043</a>	peptide biosynthetic process	3.328 %	-27.3131	0.77	0.95
<a href="#">GO:0045727</a>	positive regulation of translation	0.095 %	-1.7761	0.75	0.63
<a href="#">GO:0008152</a>	<b>metabolic process</b>	<b>56.090 %</b>	<b>-5.4659</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0009644</a>	<b>response to high light intensity</b>	<b>0.324 %</b>	<b>-22.3820</b>	<b>0.80</b>	<b>0.00</b>
<a href="#">GO:0010196</a>	nonphotochemical quenching	0.043 %	-2.2540	0.83	0.52
<a href="#">GO:1990066</a>	energy quenching	0.043 %	-2.2540	0.83	0.52
<a href="#">GO:0010218</a>	response to far red light	0.250 %	-4.4194	0.80	0.59
<a href="#">GO:0010114</a>	response to red light	0.259 %	-3.2286	0.80	0.79
<a href="#">GO:0009642</a>	response to light intensity	0.587 %	-18.2580	0.79	0.64



<a href="#">GO:0009637</a>	response to blue light	0.341 %	-2.6023	0.80	0.64
<a href="#">GO:0009639</a>	response to red or far red light	0.872 %	-2.4324	0.78	0.83
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %	-13.7458	0.76	0.79
<a href="#">GO:0071493</a>	cellular response to UV-B	0.030 %	-1.0014	0.80	0.50
<a href="#">GO:0009987</a>	<b>cellular process</b>	<b>58.826 %</b>	<b>-5.5653</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0010029</a>	<b>regulation of seed germination</b>	<b>0.298 %</b>	<b>-2.6328</b>	<b>0.84</b>	<b>0.00</b>
<a href="#">GO:0010187</a>	negative regulation of seed germination	0.073 %	-2.2755	0.84	0.88
<a href="#">GO:0048580</a>	regulation of post-embryonic development	1.303 %	-1.0386	0.83	0.78
<a href="#">GO:1900140</a>	regulation of seedling development	0.315 %	-2.4665	0.84	0.86
<a href="#">GO:0009845</a>	seed germination	0.600 %	-1.3183	0.89	0.92
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-7.7148</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0051704</a>	<b>multi-organism process</b>	<b>3.362 %</b>	<b>-1.5405</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0043335</a>	<b>protein unfolding</b>	<b>0.004 %</b>	<b>-2.6936</b>	<b>0.97</b>	<b>0.03</b>
<a href="#">GO:0051259</a>	<b>protein oligomerization</b>	<b>0.224 %</b>	<b>-1.8121</b>	<b>0.92</b>	<b>0.05</b>
<a href="#">GO:0080158</a>	chloroplast ribulose biphosphate carboxylase complex biogenesis	0.017 %	-1.3042	0.96	0.58
<a href="#">GO:0016032</a>	<b>viral process</b>	<b>0.315 %</b>	<b>-4.2730</b>	<b>0.93</b>	<b>0.05</b>
<a href="#">GO:0043900</a>	regulation of multi-organism process	0.190 %	-1.1696	0.90	0.55
<a href="#">GO:0044419</a>	interspecies interaction between organisms	0.423 %	-3.1013	0.96	0.60
<a href="#">GO:0044764</a>	multi-organism cellular process	0.414 %	-3.4034	0.93	0.58
<a href="#">GO:0044403</a>	symbiosis, encompassing mutualism through parasitism	0.406 %	-3.2455	0.96	0.97
<a href="#">GO:0006457</a>	<b>protein folding</b>	<b>0.764 %</b>	<b>-5.1240</b>	<b>0.95</b>	<b>0.05</b>
<a href="#">GO:0015809</a>	<b>arginine transport</b>	<b>0.017 %</b>	<b>-1.0014</b>	<b>0.95</b>	<b>0.07</b>
<a href="#">GO:0015977</a>	<b>carbon fixation</b>	<b>0.104 %</b>	<b>-2.0419</b>	<b>0.88</b>	<b>0.08</b>
<a href="#">GO:0090332</a>	<b>stomatal closure</b>	<b>0.121 %</b>	<b>-1.5588</b>	<b>0.91</b>	<b>0.08</b>
<a href="#">GO:0019684</a>	<b>photosynthesis, light reaction</b>	<b>0.505 %</b>	<b>-8.2740</b>	<b>0.79</b>	<b>0.09</b>
<a href="#">GO:0009780</a>	photosynthetic NADP+ reduction	0.004 %	-1.6571	0.73	0.59
<a href="#">GO:0042548</a>	regulation of photosynthesis, light reaction	0.108 %	-1.9971	0.74	0.92
<a href="#">GO:0009768</a>	photosynthesis, light harvesting in photosystem I	0.095 %	-5.8558	0.81	0.79
<a href="#">GO:0009767</a>	photosynthetic electron transport chain	0.224 %	-2.1230	0.74	0.84
<a href="#">GO:0009765</a>	photosynthesis, light harvesting	0.160 %	-6.8488	0.80	0.77
<a href="#">GO:0019253</a>	reductive pentose-phosphate cycle	0.086 %	-2.6145	0.73	0.73
<a href="#">GO:0043467</a>	regulation of generation of precursor metabolites and energy	0.117 %	-1.8776	0.80	0.69
<a href="#">GO:0010205</a>	photoinhibition	0.060 %	-1.2834	0.58	0.95
<a href="#">GO:0010207</a>	photosystem II assembly	0.086 %	-1.8168	0.78	0.78
<a href="#">GO:0010110</a>	regulation of photosynthesis, dark reaction	0.013 %	-1.4264	0.72	0.88
<a href="#">GO:0010109</a>	regulation of photosynthesis	0.160 %	-2.3530	0.77	0.77
<a href="#">GO:0043155</a>	negative regulation of photosynthesis, light reaction	0.060 %	-1.2834	0.74	0.97
<a href="#">GO:0022900</a>	electron transport chain	0.479 %	-1.5779	0.78	0.78
<a href="#">GO:0042549</a>	photosystem II stabilization	0.030 %	-1.2100	0.76	0.84
<a href="#">GO:0042550</a>	photosystem I stabilization	0.013 %	-1.4635	0.77	0.80
<a href="#">GO:0019685</a>	photosynthesis, dark reaction	0.086 %	-2.6145	0.74	0.73
<a href="#">GO:1905156</a>	negative regulation of photosynthesis	0.073 %	-2.1037	0.76	0.72
<a href="#">GO:0006740</a>	NADPH regeneration	0.004 %	-1.6571	0.81	0.65
<a href="#">GO:0080153</a>	negative regulation of reductive pentose-phosphate cycle	0.013 %	-1.4264	0.71	0.88
<a href="#">GO:0080152</a>	regulation of reductive pentose-phosphate cycle	0.013 %	-1.4264	0.72	1.00
<a href="#">GO:0010270</a>	photosystem II oxygen evolving complex assembly	0.013 %	-1.5042	0.80	0.63
<a href="#">GO:0015979</a>	<b>photosynthesis</b>	<b>1.057 %</b>	<b>-11.2961</b>	<b>0.91</b>	<b>0.10</b>
<a href="#">GO:0009058</a>	<b>biosynthetic process</b>	<b>24.432 %</b>	<b>-7.2179</b>	<b>0.91</b>	<b>0.11</b>
<a href="#">GO:0006091</a>	<b>generation of precursor metabolites and energy</b>	<b>1.459 %</b>	<b>-5.8681</b>	<b>0.91</b>	<b>0.11</b>
<a href="#">GO:0050821</a>	<b>protein stabilization</b>	<b>0.060 %</b>	<b>-1.0014</b>	<b>0.94</b>	<b>0.14</b>
<a href="#">GO:0080065</a>	<b>4-alpha-methyl-delta7-sterol oxidation</b>	<b>0.009 %</b>	<b>-1.6571</b>	<b>0.88</b>	<b>0.17</b>
<a href="#">GO:0042542</a>	<b>response to hydrogen peroxide</b>	<b>0.268 %</b>	<b>-20.1305</b>	<b>0.79</b>	<b>0.17</b>
<a href="#">GO:0000302</a>	response to reactive oxygen species	0.678 %	-14.9874	0.79	0.71
<a href="#">GO:0071241</a>	cellular response to inorganic substance	0.246 %	-1.1936	0.79	0.53
<a href="#">GO:0046686</a>	response to cadmium ion	1.368 %	-6.8228	0.80	0.77
<a href="#">GO:0010038</a>	response to metal ion	1.938 %	-7.1723	0.80	0.64
<a href="#">GO:0009615</a>	<b>response to virus</b>	<b>0.337 %</b>	<b>-5.3537</b>	<b>0.83</b>	<b>0.17</b>
<a href="#">GO:0043207</a>	response to external biotic stimulus	4.981 %	-2.8060	0.78	0.94
<a href="#">GO:0051707</a>	response to other organism	4.968 %	-2.8060	0.78	0.81
<a href="#">GO:0009617</a>	response to bacterium	1.748 %	-5.2070	0.80	0.59
<a href="#">GO:0098542</a>	defense response to other organism	4.044 %	-2.0540	0.76	0.92
<a href="#">GO:0080142</a>	<b>regulation of salicylic acid biosynthetic process</b>	<b>0.026 %</b>	<b>-2.3574</b>	<b>0.76</b>	<b>0.20</b>
<a href="#">GO:0072330</a>	monocarboxylic acid biosynthetic process	1.101 %	-1.0549	0.76	0.59
<a href="#">GO:1900384</a>	regulation of flavonol biosynthetic process	0.022 %	-1.4635	0.78	0.57
<a href="#">GO:0010337</a>	regulation of salicylic acid metabolic process	0.056 %	-1.8030	0.77	0.89
<a href="#">GO:0033517</a>	myo-inositol hexakisphosphate metabolic process	0.035 %	-1.0548	0.82	0.53
<a href="#">GO:0009696</a>	salicylic acid metabolic process	0.121 %	-1.1725	0.81	0.88
<a href="#">GO:0009697</a>	salicylic acid biosynthetic process	0.052 %	-2.0607	0.78	0.87
<a href="#">GO:0032958</a>	inositol phosphate biosynthetic process	0.047 %	-1.0407	0.78	0.91
<a href="#">GO:0010264</a>	myo-inositol hexakisphosphate biosynthetic process	0.035 %	-1.0548	0.79	0.91
<a href="#">GO:0045912</a>	<b>negative regulation of carbohydrate metabolic process</b>	<b>0.035 %</b>	<b>-1.2786</b>	<b>0.84</b>	<b>0.20</b>

<a href="#">GO:0044237</a>	cellular metabolic process	46.461 %	-5.9068	0.89	0.23
<a href="#">GO:0019538</a>	protein metabolic process	19.012 %	-18.3106	0.88	0.24
<a href="#">GO:0006807</a>	nitrogen compound metabolic process	27.303 %	-1.8512	0.91	0.25
<a href="#">GO:0006950</a>	response to stress	14.156 %	-9.2297	0.81	0.26
<a href="#">GO:1901430</a>	positive regulation of syringal lignin biosynthetic process	0.009 %	-1.4264	0.78	0.27
<a href="#">GO:1900378</a>	<i>positive regulation of secondary metabolite biosynthetic process</i>	0.017 %	-1.1165	0.80	0.79
<a href="#">GO:1901064</a>	<i>syringal lignin metabolic process</i>	0.009 %	-1.4264	0.87	0.62
<a href="#">GO:1901066</a>	<i>syringal lignin biosynthetic process</i>	0.009 %	-1.4264	0.83	1.00
<a href="#">GO:1901428</a>	<i>regulation of syringal lignin biosynthetic process</i>	0.009 %	-1.4264	0.79	1.00
<a href="#">GO:0090506</a>	axillary shoot meristem initiation	0.017 %	-1.4635	0.91	0.28
<a href="#">GO:2000032</a>	<i>regulation of secondary shoot formation</i>	0.030 %	-1.3042	0.85	0.81
<a href="#">GO:0060688</a>	<i>regulation of morphogenesis of a branching structure</i>	0.030 %	-1.3042	0.86	0.82
<a href="#">GO:1900618</a>	<i>regulation of shoot system morphogenesis</i>	0.073 %	-1.0845	0.85	0.70
<a href="#">GO:1905428</a>	<i>regulation of plant organ formation</i>	0.047 %	-1.0845	0.88	0.67
<a href="#">GO:0016485</a>	protein processing	0.220 %	-1.3178	0.91	0.29
<a href="#">GO:0055114</a>	oxidation-reduction process	7.462 %	-2.0144	0.83	0.29
<a href="#">GO:0043170</a>	macromolecule metabolic process	38.032 %	-2.6439	0.88	0.29
<a href="#">GO:0051604</a>	protein maturation	0.272 %	-1.2074	0.91	0.30
<a href="#">GO:0043603</a>	cellular amide metabolic process	3.897 %	-25.8498	0.86	0.31
<a href="#">GO:0007067</a>	mitotic nuclear division	0.699 %	-1.0776	0.88	0.32
<a href="#">GO:0071454</a>	cellular response to anoxia	0.013 %	-1.4264	0.78	0.32
<a href="#">GO:0036293</a>	<i>response to decreased oxygen levels</i>	0.281 %	-1.1794	0.81	0.93
<a href="#">GO:0036294</a>	<i>cellular response to decreased oxygen levels</i>	0.129 %	-1.1956	0.76	0.93
<a href="#">GO:0071453</a>	<i>cellular response to oxygen levels</i>	0.129 %	-1.1956	0.76	0.75
<a href="#">GO:0080053</a>	response to phenylalanine	0.004 %	-1.3609	0.86	0.32
<a href="#">GO:0043201</a>	<i>response to leucine</i>	0.004 %	-1.3609	0.86	0.66
<a href="#">GO:0080052</a>	<i>response to histidine</i>	0.004 %	-1.3609	0.86	0.66
<a href="#">GO:0009955</a>	adaxial/abaxial pattern specification	0.151 %	-1.0776	0.92	0.33
<a href="#">GO:1901564</a>	organonitrogen compound metabolic process	8.541 %	-13.8798	0.87	0.33
<a href="#">GO:0006979</a>	response to oxidative stress	1.908 %	-12.0499	0.82	0.34
<a href="#">GO:0048480</a>	stigma development	0.004 %	-1.0845	0.92	0.34
<a href="#">GO:0071704</a>	organic substance metabolic process	49.271 %	-3.0049	0.90	0.34
<a href="#">GO:0044238</a>	primary metabolic process	46.772 %	-2.6150	0.90	0.35
<a href="#">GO:0010467</a>	gene expression	18.304 %	-8.6359	0.88	0.36
<a href="#">GO:0031647</a>	regulation of protein stability	0.073 %	-1.0014	0.94	0.36
<a href="#">GO:0048569</a>	post-embryonic animal organ development	0.572 %	-1.4264	0.90	0.37
<a href="#">GO:0042425</a>	choline biosynthetic process	0.004 %	-1.6571	0.84	0.39
<a href="#">GO:0006576</a>	<i>cellular biogenic amine metabolic process</i>	0.255 %	-1.0489	0.84	0.83
<a href="#">GO:0006598</a>	<i>polyamine catabolic process</i>	0.017 %	-1.2100	0.86	0.95
<a href="#">GO:0009310</a>	<i>amine catabolic process</i>	0.039 %	-1.1895	0.87	0.67
<a href="#">GO:0042402</a>	<i>cellular biogenic amine catabolic process</i>	0.039 %	-1.1895	0.86	0.67
<a href="#">GO:0006656</a>	<i>phosphatidylcholine biosynthetic process</i>	0.060 %	-1.2786	0.77	0.75
<a href="#">GO:0019695</a>	<i>choline metabolic process</i>	0.013 %	-1.4264	0.92	0.64
<a href="#">GO:0006124</a>	ferredoxin metabolic process	1.917 %	-1.5042	0.87	0.40
<a href="#">GO:0010035</a>	response to inorganic substance	3.699 %	-11.9064	0.80	0.40
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	6.504 %	-6.3602	0.79	0.61
<a href="#">GO:0006972</a>	hyperosmotic response	0.263 %	-4.9691	0.80	0.40
<a href="#">GO:0009651</a>	<i>response to salt stress</i>	2.270 %	-1.0079	0.76	0.74
<a href="#">GO:0070482</a>	response to oxygen levels	0.285 %	-1.1689	0.82	0.40
<a href="#">GO:0009607</a>	response to biotic stimulus	5.158 %	-3.4400	0.83	0.41
<a href="#">GO:0006006</a>	glucose metabolic process	0.199 %	-1.2074	0.83	0.41
<a href="#">GO:0071277</a>	cellular response to calcium ion	0.009 %	-3.6813	0.83	0.42
<a href="#">GO:0071248</a>	<i>cellular response to metal ion</i>	0.216 %	-1.4321	0.79	0.77
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-1.4769	0.82	0.42
<a href="#">GO:0016567</a>	protein ubiquitination	3.837 %	-5.7829	0.86	0.44
<a href="#">GO:0070647</a>	<i>protein modification by small protein conjugation or removal</i>	4.294 %	-4.7675	0.86	0.56
<a href="#">GO:0044267</a>	<i>cellular protein metabolic process</i>	17.229 %	-19.3524	0.84	0.54
<a href="#">GO:0032446</a>	<i>protein modification by small protein conjugation</i>	3.966 %	-5.4274	0.86	0.93
<a href="#">GO:0044260</a>	cellular macromolecule metabolic process	35.028 %	-3.3461	0.84	0.44
<a href="#">GO:0009408</a>	response to heat	0.859 %	-15.9846	0.78	0.44
<a href="#">GO:0009266</a>	<i>response to temperature stimulus</i>	2.287 %	-9.7512	0.78	0.64
<a href="#">GO:0009314</a>	<i>response to radiation</i>	2.892 %	-13.5204	0.78	0.56
<a href="#">GO:0006970</a>	<i>response to osmotic stress</i>	2.512 %	-3.1733	0.76	0.65
<a href="#">GO:0009628</a>	response to abiotic stimulus	7.946 %	-8.8015	0.82	0.45
<a href="#">GO:0010112</a>	regulation of systemic acquired resistance	0.082 %	-3.0041	0.75	0.45
<a href="#">GO:0002682</a>	<i>regulation of immune system process</i>	0.453 %	-1.1490	0.86	0.80
<a href="#">GO:0045088</a>	<i>regulation of innate immune response</i>	0.397 %	-1.2889	0.74	0.86
<a href="#">GO:0045087</a>	<i>innate immune response</i>	1.364 %	-1.1352	0.78	0.91
<a href="#">GO:0009816</a>	<i>defense response to bacterium, incompatible interaction</i>	0.177 %	-2.2533	0.79	0.73
<a href="#">GO:0009814</a>	<i>defense response, incompatible interaction</i>	0.725 %	-1.9358	0.76	0.75
<a href="#">GO:0032101</a>	<i>regulation of response to external stimulus</i>	0.315 %	-1.3996	0.77	0.62
<a href="#">GO:0009627</a>	<i>systemic acquired resistance</i>	0.281 %	-1.0619	0.78	0.80
<a href="#">GO:0050776</a>	<i>regulation of immune response</i>	0.419 %	-1.2399	0.76	0.98
<a href="#">GO:0002831</a>	<i>regulation of response to biotic stimulus</i>	0.293 %	-1.4908	0.77	0.55

<a href="#">GO:0006955</a>	immune response	1.398 %	-1.0994	0.80	0.96
<a href="#">GO:0042742</a>	defense response to bacterium	1.476 %	-1.3575	0.78	0.75
<a href="#">GO:0044271</a>	<b>cellular nitrogen compound biosynthetic process</b>	<b>17.018 %</b>	<b>-10.0850</b>	<b>0.79</b>	<b>0.45</b>
<a href="#">GO:0009059</a>	macromolecule biosynthetic process	17.035 %	-8.7620	0.82	0.66
<a href="#">GO:0044249</a>	cellular biosynthetic process	22.844 %	-6.4315	0.81	0.72
<a href="#">GO:1901576</a>	organic substance biosynthetic process	22.969 %	-8.3418	0.83	0.66
<a href="#">GO:0034641</a>	cellular nitrogen compound metabolic process	25.404 %	-2.4943	0.83	0.60
<a href="#">GO:0034645</a>	cellular macromolecule biosynthetic process	16.737 %	-9.2482	0.80	0.64
<a href="#">GO:0010335</a>	response to non-ionic osmotic stress	0.004 %	-1.4635	0.85	0.45
<a href="#">GO:0006542</a>	glutamine biosynthetic process	0.030 %	-1.1336	0.79	0.46
<a href="#">GO:0042274</a>	ribosomal small subunit biogenesis	0.410 %	-1.3609	0.96	0.46
<a href="#">GO:0070271</a>	protein complex biogenesis	1.334 %	-1.1827	0.96	0.55
<a href="#">GO:0045471</a>	response to ethanol	0.613 %	-3.3526	0.82	0.46
<a href="#">GO:0042819</a>	vitamin B6 biosynthetic process	0.039 %	-1.2544	0.77	0.47
<a href="#">GO:0042823</a>	pyridoxal phosphate biosynthetic process	0.043 %	-1.2316	0.75	0.89
<a href="#">GO:0042822</a>	pyridoxal phosphate metabolic process	0.043 %	-1.2316	0.78	0.67
<a href="#">GO:0042816</a>	vitamin B6 metabolic process	0.039 %	-1.2544	0.80	0.73
<a href="#">GO:0051592</a>	response to calcium ion	0.052 %	-2.9048	0.84	0.47
<a href="#">GO:0010043</a>	response to zinc ion	0.186 %	-1.1586	0.83	0.56
<a href="#">GO:0009867</a>	jasmonic acid mediated signaling pathway	0.319 %	-1.1023	0.72	0.47
<a href="#">GO:0071395</a>	cellular response to jasmonic acid stimulus	0.337 %	-1.0469	0.79	0.81
<a href="#">GO:0006346</a>	methylation-dependent chromatin silencing	0.056 %	-1.0140	0.75	0.47
<a href="#">GO:0006982</a>	response to lipid hydroperoxide	0.004 %	-1.4635	0.86	0.49
<a href="#">GO:0033194</a>	response to hydroperoxide	0.004 %	-1.4635	0.86	0.49
<a href="#">GO:0090351</a>	seedling development	0.660 %	-1.2032	0.90	0.49
<a href="#">GO:0042221</a>	response to chemical	12.434 %	-7.4301	0.81	0.49
<a href="#">GO:0006952</a>	defense response	6.090 %	-1.2821	0.80	0.50

Biological Process (153) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 4

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0002376</a>	immune system process	1.532 %		-1.5770	0.99	0.00
<a href="#">GO:0006720</a>	<b>isoprenoid metabolic process</b>	<b>0.850 %</b>		<b>-6.8480</b>	<b>0.69</b>	<b>0.00</b>
<a href="#">GO:0008299</a>	isoprenoid biosynthetic process	0.738 %		-7.3932	0.64	0.94
<a href="#">GO:0033384</a>	geranyl diphosphate biosynthetic process	0.056 %		-1.5706	0.69	0.78
<a href="#">GO:0033383</a>	geranyl diphosphate metabolic process	0.056 %		-1.4751	0.70	0.78
<a href="#">GO:0033386</a>	geranylgeranyl diphosphate biosynthetic process	0.047 %		-1.7448	0.69	0.77
<a href="#">GO:0033385</a>	geranylgeranyl diphosphate metabolic process	0.047 %		-1.7448	0.71	0.77
<a href="#">GO:0006638</a>	neutral lipid metabolic process	0.147 %		-1.0410	0.73	0.59
<a href="#">GO:0044255</a>	cellular lipid metabolic process	3.224 %		-4.5589	0.68	0.82
<a href="#">GO:0045338</a>	farnesyl diphosphate metabolic process	0.078 %		-1.3027	0.70	0.80
<a href="#">GO:0045337</a>	farnesyl diphosphate biosynthetic process	0.056 %		-1.5706	0.69	0.78
<a href="#">GO:0016106</a>	sesquiterpenoid biosynthetic process	0.138 %		-1.4345	0.67	0.84
<a href="#">GO:0016109</a>	tetraterpenoid biosynthetic process	0.147 %		-1.0264	0.67	0.97
<a href="#">GO:0016114</a>	terpenoid biosynthetic process	0.591 %		-6.7807	0.64	0.67
<a href="#">GO:0016117</a>	carotenoid biosynthetic process	0.147 %		-1.0264	0.67	0.85
<a href="#">GO:1901336</a>	lactone biosynthetic process	0.026 %		-1.5046	0.88	1.00

<a href="#">GO:1901601</a>	<i>strigolactone biosynthetic process</i>	0.026 %	-1.5046	0.69	0.85
<a href="#">GO:1901600</a>	<i>strigolactone metabolic process</i>	0.026 %	-1.5046	0.70	1.00
<a href="#">GO:0008610</a>	<i>lipid biosynthetic process</i>	2.464 %	-5.8662	0.68	0.69
<a href="#">GO:0006714</a>	<i>sesquiterpenoid metabolic process</i>	0.181 %	-1.3319	0.68	0.86
<a href="#">GO:0006721</a>	<i>terpenoid metabolic process</i>	0.699 %	-6.2208	0.66	0.96
<a href="#">GO:0023052</a>	<b>signaling</b>	<b>8.908 %</b>	<b>-1.2179</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0040011</a>	<b>locomotion</b>	<b>0.164 %</b>	<b>-1.0936</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0044699</a>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-1.3798</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-1.6541</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0010111</a>	<b>glyoxysome organization</b>	<b>0.004 %</b>	<b>-1.6279</b>	<b>0.96</b>	<b>0.03</b>
<a href="#">GO:0042425</a>	<b>choline biosynthetic process</b>	<b>0.004 %</b>	<b>-2.1016</b>	<b>0.82</b>	<b>0.06</b>
<a href="#">GO:0006576</a>	<i>cellular biogenic amine metabolic process</i>	0.255 %	-1.8583	0.82	0.72
<a href="#">GO:0006598</a>	<i>polyamine catabolic process</i>	0.017 %	-1.6488	0.83	0.95
<a href="#">GO:0006595</a>	<i>polyamine metabolic process</i>	0.095 %	-1.0717	0.83	0.89
<a href="#">GO:0009309</a>	<i>amine biosynthetic process</i>	0.186 %	-1.0034	0.81	0.85
<a href="#">GO:0009310</a>	<i>amine catabolic process</i>	0.039 %	-1.6279	0.84	0.76
<a href="#">GO:0042402</a>	<i>cellular biogenic amine catabolic process</i>	0.039 %	-1.6279	0.82	0.83
<a href="#">GO:0042401</a>	<i>cellular biogenic amine biosynthetic process</i>	0.186 %	-1.0034	0.80	0.94
<a href="#">GO:0006656</a>	<i>phosphatidylcholine biosynthetic process</i>	0.060 %	-1.7187	0.65	0.75
<a href="#">GO:0046470</a>	<i>phosphatidylcholine metabolic process</i>	0.099 %	-1.1289	0.66	0.86
<a href="#">GO:0019695</a>	<i>choline metabolic process</i>	0.013 %	-1.8687	0.92	0.64
<a href="#">GO:0044106</a>	<i>cellular amine metabolic process</i>	0.306 %	-1.6897	0.83	0.89
<a href="#">GO:1901334</a>	<b>lactone metabolic process</b>	<b>0.026 %</b>	<b>-1.5046</b>	<b>0.92</b>	<b>0.06</b>
<a href="#">GO:0009862</a>	<b>systemic acquired resistance, salicylic acid mediated signaling pathway</b>	<b>0.052 %</b>	<b>-4.0178</b>	<b>0.64</b>	<b>0.08</b>
<a href="#">GO:0071229</a>	<i>cellular response to acid chemical</i>	2.158 %	-1.4086	0.70	0.75
<a href="#">GO:1901701</a>	<i>cellular response to oxygen-containing compound</i>	2.788 %	-1.3426	0.69	0.70
<a href="#">GO:0097305</a>	<i>response to alcohol</i>	2.469 %	-1.6595	0.74	0.69
<a href="#">GO:0009751</a>	<i>response to salicylic acid</i>	0.876 %	-3.4629	0.74	0.66
<a href="#">GO:0009737</a>	<i>response to abscisic acid</i>	2.443 %	-1.6714	0.73	0.67
<a href="#">GO:0009725</a>	<i>response to hormone</i>	6.871 %	-1.0966	0.72	0.76
<a href="#">GO:0010204</a>	<i>defense response signaling pathway, resistance gene-independent</i>	0.052 %	-1.0664	0.73	0.68
<a href="#">GO:0045087</a>	<i>innate immune response</i>	1.364 %	-1.7840	0.79	0.83
<a href="#">GO:0009814</a>	<i>defense response, incompatible interaction</i>	0.725 %	-1.9498	0.77	0.91
<a href="#">GO:0002764</a>	<i>immune response-regulating signaling pathway</i>	0.022 %	-1.4345	0.75	0.53
<a href="#">GO:0071446</a>	<i>cellular response to salicylic acid stimulus</i>	0.242 %	-2.2603	0.72	0.76
<a href="#">GO:0009627</a>	<i>systemic acquired resistance</i>	0.281 %	-2.2080	0.79	0.73
<a href="#">GO:0009863</a>	<i>salicylic acid mediated signaling pathway</i>	0.211 %	-2.4119	0.66	0.88
<a href="#">GO:0071407</a>	<i>cellular response to organic cyclic compound</i>	0.798 %	-1.1835	0.71	0.85
<a href="#">GO:0009414</a>	<i>response to water deprivation</i>	1.390 %	-1.0069	0.71	0.71
<a href="#">GO:0006955</a>	<i>immune response</i>	1.398 %	-1.7371	0.80	0.96
<a href="#">GO:0071310</a>	<i>cellular response to organic substance</i>	4.601 %	-1.0854	0.68	0.84
<a href="#">GO:0097164</a>	<b>ammonium ion metabolic process</b>	<b>0.216 %</b>	<b>-1.0993</b>	<b>0.93</b>	<b>0.12</b>
<a href="#">GO:0009650</a>	<b>UV protection</b>	<b>0.013 %</b>	<b>-1.8687</b>	<b>0.85</b>	<b>0.12</b>
<a href="#">GO:0034644</a>	<i>cellular response to UV</i>	0.073 %	-1.2497	0.79	0.83
<a href="#">GO:0071482</a>	<i>cellular response to light stimulus</i>	0.561 %	-1.1724	0.76	0.77
<a href="#">GO:0071478</a>	<i>cellular response to radiation</i>	0.583 %	-1.1724	0.76	0.91
<a href="#">GO:0071493</a>	<i>cellular response to UV-B</i>	0.030 %	-1.4345	0.80	0.64
<a href="#">GO:0006556</a>	<b>S-adenosylmethionine biosynthetic process</b>	<b>0.017 %</b>	<b>-1.4896</b>	<b>0.89</b>	<b>0.12</b>
<a href="#">GO:0009086</a>	<i>methionine biosynthetic process</i>	0.112 %	-1.0717	0.74	0.64
<a href="#">GO:0046500</a>	<i>S-adenosylmethionine metabolic process</i>	0.043 %	-1.3421	0.92	0.53
<a href="#">GO:2000603</a>	<b>regulation of secondary growth</b>	<b>0.009 %</b>	<b>-1.1813</b>	<b>0.90</b>	<b>0.13</b>
<a href="#">GO:2000605</a>	<i>positive regulation of secondary growth</i>	0.004 %	-1.2029	0.90	0.87
<a href="#">GO:0044070</a>	<b>regulation of anion transport</b>	<b>0.164 %</b>	<b>-1.9647</b>	<b>0.83</b>	<b>0.15</b>
<a href="#">GO:0006820</a>	<i>anion transport</i>	1.524 %	-1.4191	0.89	0.57
<a href="#">GO:0034762</a>	<i>regulation of transmembrane transport</i>	0.216 %	-1.8076	0.85	0.81
<a href="#">GO:0010359</a>	<i>regulation of anion channel activity</i>	0.047 %	-1.9707	0.84	0.82
<a href="#">GO:0034765</a>	<i>regulation of ion transmembrane transport</i>	0.207 %	-1.8076	0.83	0.92
<a href="#">GO:0098656</a>	<i>anion transmembrane transport</i>	0.902 %	-1.7464	0.88	0.74
<a href="#">GO:1903959</a>	<i>regulation of anion transmembrane transport</i>	0.129 %	-1.9707	0.83	0.95
<a href="#">GO:0022898</a>	<i>regulation of transmembrane transporter activity</i>	0.060 %	-1.8325	0.85	1.00
<a href="#">GO:0051049</a>	<i>regulation of transport</i>	0.609 %	-1.3238	0.84	0.89
<a href="#">GO:0032412</a>	<i>regulation of ion transmembrane transporter activity</i>	0.060 %	-1.8325	0.84	0.98
<a href="#">GO:0032409</a>	<i>regulation of transporter activity</i>	0.060 %	-1.8325	0.86	0.73
<a href="#">GO:0043269</a>	<i>regulation of ion transport</i>	0.302 %	-1.6026	0.84	0.85
<a href="#">GO:0015706</a>	<i>nitrate transport</i>	0.108 %	-1.3219	0.90	0.62
<a href="#">GO:0000018</a>	<b>regulation of DNA recombination</b>	<b>0.060 %</b>	<b>-1.5531</b>	<b>0.87</b>	<b>0.16</b>
<a href="#">GO:0045910</a>	<i>negative regulation of DNA recombination</i>	0.035 %	-1.5531	0.86	0.72
<a href="#">GO:0051053</a>	<i>negative regulation of DNA metabolic process</i>	0.086 %	-1.2103	0.85	0.77
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-3.2569</b>	<b>0.87</b>	<b>0.16</b>

<a href="#">GO:0009058</a>	biosynthetic process	24.432 %	-1.2223	0.93	0.16
<a href="#">GO:0043446</a>	cellular alkane metabolic process	0.017 %	-1.6941	0.85	0.21
<a href="#">GO:0043447</a>	alkane biosynthetic process	0.017 %	-1.6941	0.82	0.21
<a href="#">GO:0045595</a>	regulation of cell differentiation	0.250 %	-1.1485	0.82	0.21
<a href="#">GO:0006097</a>	glyoxylate cycle	0.030 %	-1.4094	0.81	0.21
<a href="#">GO:0046487</a>	<i>glyoxylate metabolic process</i>	0.035 %	-1.3857	0.83	0.72
<a href="#">GO:0012501</a>	programmed cell death	0.600 %	-1.6777	0.85	0.23
<a href="#">GO:0008219</a>	cell death	0.734 %	-1.2769	0.85	0.23
<a href="#">GO:0022900</a>	electron transport chain	0.479 %	-1.2163	0.81	0.27
<a href="#">GO:0019915</a>	lipid storage	0.112 %	-1.3857	0.91	0.28
<a href="#">GO:0006979</a>	response to oxidative stress	1.908 %	-1.7754	0.83	0.29
<a href="#">GO:0009308</a>	amine metabolic process	0.522 %	-1.2250	0.88	0.29
<a href="#">GO:0044763</a>	single-organism cellular process	23.034 %	-1.2432	0.87	0.32
<a href="#">GO:0032879</a>	regulation of localization	0.734 %	-1.2541	0.90	0.32
<a href="#">GO:0080167</a>	response to karrikin	0.531 %	-1.1251	0.83	0.33
<a href="#">GO:0042221</a>	response to chemical	12.434 %	-3.3868	0.80	0.33
<a href="#">GO:0006629</a>	lipid metabolic process	4.683 %	-4.8462	0.79	0.35
<a href="#">GO:0010183</a>	pollen tube guidance	0.117 %	-1.2029	0.77	0.36
<a href="#">GO:0050918</a>	<i>positive chemotaxis</i>	0.117 %	-1.2029	0.78	1.00
<a href="#">GO:0042330</a>	<i>taxis</i>	0.117 %	-1.2029	0.82	0.95
<a href="#">GO:0006935</a>	<i>chemotaxis</i>	0.117 %	-1.2029	0.78	1.00
<a href="#">GO:0098581</a>	detection of external biotic stimulus	0.030 %	-1.4611	0.83	0.36
<a href="#">GO:0016045</a>	<i>detection of bacterium</i>	0.013 %	-1.5888	0.84	0.95
<a href="#">GO:0009595</a>	<i>detection of biotic stimulus</i>	0.030 %	-1.4611	0.85	0.67
<a href="#">GO:0098543</a>	<i>detection of other organism</i>	0.017 %	-1.5888	0.84	0.97
<a href="#">GO:0014070</a>	response to organic cyclic compound	1.606 %	-2.1047	0.76	0.38
<a href="#">GO:0009735</a>	<i>response to cytokinin</i>	1.010 %	-1.0136	0.77	0.51
<a href="#">GO:0033993</a>	<i>response to lipid</i>	3.267 %	-1.0090	0.75	0.59
<a href="#">GO:0034484</a>	raffinose catabolic process	0.004 %	-1.2754	0.82	0.41
<a href="#">GO:0033530</a>	<i>raffinose metabolic process</i>	0.013 %	-1.1228	0.83	0.56
<a href="#">GO:0005991</a>	<i>trehalose metabolic process</i>	0.104 %	-1.0034	0.80	0.85
<a href="#">GO:0005992</a>	<i>trehalose biosynthetic process</i>	0.095 %	-1.0217	0.77	0.67
<a href="#">GO:0071241</a>	cellular response to inorganic substance	0.246 %	-1.3737	0.75	0.41
<a href="#">GO:0042542</a>	<i>response to hydrogen peroxide</i>	0.268 %	-1.0264	0.78	0.53
<a href="#">GO:0071277</a>	cellular response to calcium ion	0.009 %	-1.3974	0.80	0.41
<a href="#">GO:0071249</a>	<i>cellular response to nitrate</i>	0.017 %	-1.3526	0.77	0.67
<a href="#">GO:0009704</a>	de-etiolation	0.047 %	-1.0936	0.80	0.42
<a href="#">GO:0009644</a>	<i>response to high light intensity</i>	0.324 %	-1.0012	0.83	0.52
<a href="#">GO:0016099</a>	monoterpenoid biosynthetic process	0.004 %	-1.6079	0.73	0.45
<a href="#">GO:0052651</a>	monoacylglycerol catabolic process	0.004 %	-1.7448	0.74	0.45
<a href="#">GO:0046340</a>	<i>diacylglycerol catabolic process</i>	0.004 %	-1.7448	0.74	0.84
<a href="#">GO:0046339</a>	<i>diacylglycerol metabolic process</i>	0.022 %	-1.6488	0.73	0.70
<a href="#">GO:0006639</a>	<i>acylglycerol metabolic process</i>	0.147 %	-1.0410	0.70	0.87
<a href="#">GO:0046464</a>	<i>acylglycerol catabolic process</i>	0.022 %	-1.5531	0.71	0.91
<a href="#">GO:0046461</a>	<i>neutral lipid catabolic process</i>	0.022 %	-1.5531	0.72	0.77
<a href="#">GO:0046462</a>	<i>monoacylglycerol metabolic process</i>	0.004 %	-1.7448	0.75	0.65
<a href="#">GO:0046503</a>	<i>glycerolipid catabolic process</i>	0.035 %	-1.5531	0.72	0.64
<a href="#">GO:0080053</a>	response to phenylalanine	0.004 %	-1.8023	0.81	0.46
<a href="#">GO:0043201</a>	<i>response to leucine</i>	0.004 %	-1.8023	0.82	0.66
<a href="#">GO:0080052</a>	<i>response to histidine</i>	0.004 %	-1.8023	0.81	0.66
<a href="#">GO:0055085</a>	transmembrane transport	5.175 %	-1.5628	0.91	0.47
<a href="#">GO:0009408</a>	response to heat	0.859 %	-1.0129	0.81	0.47
<a href="#">GO:0051592</a>	response to calcium ion	0.052 %	-1.1414	0.82	0.47
<a href="#">GO:0044711</a>	single-organism biosynthetic process	7.549 %	-2.4709	0.76	0.49
<a href="#">GO:0044249</a>	<i>cellular biosynthetic process</i>	22.844 %	-1.4571	0.84	0.52
<a href="#">GO:0055114</a>	<i>oxidation-reduction process</i>	7.462 %	-1.6819	0.78	0.53
<a href="#">GO:1901576</a>	<i>organic substance biosynthetic process</i>	22.969 %	-1.1190	0.86	0.72
<a href="#">GO:0016098</a>	monoterpenoid metabolic process	0.004 %	-1.6079	0.75	0.49
<a href="#">GO:0009617</a>	response to bacterium	1.748 %	-2.1383	0.80	0.49
<a href="#">GO:0010035</a>	response to inorganic substance	3.699 %	-1.6886	0.76	0.49
<a href="#">GO:0001101</a>	<i>response to acid chemical</i>	5.011 %	-2.5696	0.75	0.58
<a href="#">GO:0044700</a>	<i>single organism signaling</i>	8.899 %	-1.2194	0.87	0.91
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	6.504 %	-2.0395	0.74	0.64
<a href="#">GO:0070887</a>	<i>cellular response to chemical stimulus</i>	5.287 %	-1.7785	0.70	0.64
<a href="#">GO:0007165</a>	<i>signal transduction</i>	8.731 %	-1.2290	0.64	0.67
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-2.0284	0.73	0.70
<a href="#">GO:0006012</a>	galactose metabolic process	0.121 %	-1.1351	0.81	0.50
<a href="#">GO:0009311</a>	<i>oligosaccharide metabolic process</i>	0.466 %	-1.0105	0.80	0.61

Biological Process (153) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 5

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

<a href="#">Hide/show dispensable GO terms</a>		<a href="#">Export results to text table (CSV)</a>			<a href="#">Make R script for plotting</a>	
term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0002376</a>	immune system process	1.532 %		-1.5770	0.99	0.00
<a href="#">GO:0006720</a>	isoprenoid metabolic process	0.850 %		-6.8480	0.69	0.00
<a href="#">GO:0008299</a>	<i>isoprenoid biosynthetic process</i>	0.738 %		-7.3932	0.64	0.94
<a href="#">GO:0033384</a>	<i>geranyl diphosphate biosynthetic process</i>	0.056 %		-1.5706	0.69	0.78
<a href="#">GO:0033383</a>	<i>geranyl diphosphate metabolic process</i>	0.056 %		-1.4751	0.70	0.78
<a href="#">GO:0033386</a>	<i>geranylgeranyl diphosphate biosynthetic process</i>	0.047 %		-1.7448	0.69	0.77
<a href="#">GO:0033385</a>	<i>geranylgeranyl diphosphate metabolic process</i>	0.047 %		-1.7448	0.71	0.77
<a href="#">GO:0006638</a>	<i>neutral lipid metabolic process</i>	0.147 %		-1.0410	0.73	0.59
<a href="#">GO:0044255</a>	<i>cellular lipid metabolic process</i>	3.224 %		-4.5589	0.68	0.82
<a href="#">GO:0045338</a>	<i>farnesyl diphosphate metabolic process</i>	0.078 %		-1.3027	0.70	0.80
<a href="#">GO:0045337</a>	<i>farnesyl diphosphate biosynthetic process</i>	0.056 %		-1.5706	0.69	0.78
<a href="#">GO:0016106</a>	<i>sesquiterpenoid biosynthetic process</i>	0.138 %		-1.4345	0.67	0.84
<a href="#">GO:0016109</a>	<i>tetraterpenoid biosynthetic process</i>	0.147 %		-1.0264	0.67	0.97
<a href="#">GO:0016114</a>	<i>terpenoid biosynthetic process</i>	0.591 %		-6.7807	0.64	0.67
<a href="#">GO:0016117</a>	<i>carotenoid biosynthetic process</i>	0.147 %		-1.0264	0.67	0.85
<a href="#">GO:1901336</a>	<i>lactone biosynthetic process</i>	0.026 %		-1.5046	0.88	1.00

<a href="#">GO:1901601</a>	<i>strigolactone biosynthetic process</i>	0.026 %	-1.5046	0.69	0.85
<a href="#">GO:1901600</a>	<i>strigolactone metabolic process</i>	0.026 %	-1.5046	0.70	1.00
<a href="#">GO:0008610</a>	<i>lipid biosynthetic process</i>	2.464 %	-5.8662	0.68	0.69
<a href="#">GO:0006714</a>	<i>sesquiterpenoid metabolic process</i>	0.181 %	-1.3319	0.68	0.86
<a href="#">GO:0006721</a>	<i>terpenoid metabolic process</i>	0.699 %	-6.2208	0.66	0.96
<a href="#">GO:0023052</a>	<b>signaling</b>	<b>8.908 %</b>	<b>-1.2179</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0040011</a>	<b>locomotion</b>	<b>0.164 %</b>	<b>-1.0936</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0044699</a>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-1.3798</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-1.6541</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0010111</a>	<b>glyoxysome organization</b>	<b>0.004 %</b>	<b>-1.6279</b>	<b>0.96</b>	<b>0.03</b>
<a href="#">GO:0042425</a>	<b>choline biosynthetic process</b>	<b>0.004 %</b>	<b>-2.1016</b>	<b>0.82</b>	<b>0.06</b>
<a href="#">GO:0006576</a>	<i>cellular biogenic amine metabolic process</i>	0.255 %	-1.8583	0.82	0.72
<a href="#">GO:0006598</a>	<i>polyamine catabolic process</i>	0.017 %	-1.6488	0.83	0.95
<a href="#">GO:0006595</a>	<i>polyamine metabolic process</i>	0.095 %	-1.0717	0.83	0.89
<a href="#">GO:0009309</a>	<i>amine biosynthetic process</i>	0.186 %	-1.0034	0.81	0.85
<a href="#">GO:0009310</a>	<i>amine catabolic process</i>	0.039 %	-1.6279	0.84	0.76
<a href="#">GO:0042402</a>	<i>cellular biogenic amine catabolic process</i>	0.039 %	-1.6279	0.82	0.83
<a href="#">GO:0042401</a>	<i>cellular biogenic amine biosynthetic process</i>	0.186 %	-1.0034	0.80	0.94
<a href="#">GO:0006656</a>	<i>phosphatidylcholine biosynthetic process</i>	0.060 %	-1.7187	0.65	0.75
<a href="#">GO:0046470</a>	<i>phosphatidylcholine metabolic process</i>	0.099 %	-1.1289	0.66	0.86
<a href="#">GO:0019695</a>	<i>choline metabolic process</i>	0.013 %	-1.8687	0.92	0.64
<a href="#">GO:0044106</a>	<i>cellular amine metabolic process</i>	0.306 %	-1.6897	0.83	0.89
<a href="#">GO:1901334</a>	<b>lactone metabolic process</b>	<b>0.026 %</b>	<b>-1.5046</b>	<b>0.92</b>	<b>0.06</b>
<a href="#">GO:0009862</a>	<b>systemic acquired resistance, salicylic acid mediated signaling pathway</b>	<b>0.052 %</b>	<b>-4.0178</b>	<b>0.64</b>	<b>0.08</b>
<a href="#">GO:0071229</a>	<i>cellular response to acid chemical</i>	2.158 %	-1.4086	0.70	0.75
<a href="#">GO:1901701</a>	<i>cellular response to oxygen-containing compound</i>	2.788 %	-1.3426	0.69	0.70
<a href="#">GO:0097305</a>	<i>response to alcohol</i>	2.469 %	-1.6595	0.74	0.69
<a href="#">GO:0009751</a>	<i>response to salicylic acid</i>	0.876 %	-3.4629	0.74	0.66
<a href="#">GO:0009737</a>	<i>response to abscisic acid</i>	2.443 %	-1.6714	0.73	0.67
<a href="#">GO:0009725</a>	<i>response to hormone</i>	6.871 %	-1.0966	0.72	0.76
<a href="#">GO:0010204</a>	<i>defense response signaling pathway, resistance gene-independent</i>	0.052 %	-1.0664	0.73	0.68
<a href="#">GO:0045087</a>	<i>innate immune response</i>	1.364 %	-1.7840	0.79	0.83
<a href="#">GO:0009814</a>	<i>defense response, incompatible interaction</i>	0.725 %	-1.9498	0.77	0.91
<a href="#">GO:0002764</a>	<i>immune response-regulating signaling pathway</i>	0.022 %	-1.4345	0.75	0.53
<a href="#">GO:0071446</a>	<i>cellular response to salicylic acid stimulus</i>	0.242 %	-2.2603	0.72	0.76
<a href="#">GO:0009627</a>	<i>systemic acquired resistance</i>	0.281 %	-2.2080	0.79	0.73
<a href="#">GO:0009863</a>	<i>salicylic acid mediated signaling pathway</i>	0.211 %	-2.4119	0.66	0.88
<a href="#">GO:0071407</a>	<i>cellular response to organic cyclic compound</i>	0.798 %	-1.1835	0.71	0.85
<a href="#">GO:0009414</a>	<i>response to water deprivation</i>	1.390 %	-1.0069	0.71	0.71
<a href="#">GO:0006955</a>	<i>immune response</i>	1.398 %	-1.7371	0.80	0.96
<a href="#">GO:0071310</a>	<i>cellular response to organic substance</i>	4.601 %	-1.0854	0.68	0.84
<a href="#">GO:0097164</a>	<b>ammonium ion metabolic process</b>	<b>0.216 %</b>	<b>-1.0993</b>	<b>0.93</b>	<b>0.12</b>
<a href="#">GO:0009650</a>	<b>UV protection</b>	<b>0.013 %</b>	<b>-1.8687</b>	<b>0.85</b>	<b>0.12</b>
<a href="#">GO:0034644</a>	<i>cellular response to UV</i>	0.073 %	-1.2497	0.79	0.83
<a href="#">GO:0071482</a>	<i>cellular response to light stimulus</i>	0.561 %	-1.1724	0.76	0.77
<a href="#">GO:0071478</a>	<i>cellular response to radiation</i>	0.583 %	-1.1724	0.76	0.91
<a href="#">GO:0071493</a>	<i>cellular response to UV-B</i>	0.030 %	-1.4345	0.80	0.64
<a href="#">GO:0006556</a>	<b>S-adenosylmethionine biosynthetic process</b>	<b>0.017 %</b>	<b>-1.4896</b>	<b>0.89</b>	<b>0.12</b>
<a href="#">GO:0009086</a>	<i>methionine biosynthetic process</i>	0.112 %	-1.0717	0.74	0.64
<a href="#">GO:0046500</a>	<i>S-adenosylmethionine metabolic process</i>	0.043 %	-1.3421	0.92	0.53
<a href="#">GO:2000603</a>	<b>regulation of secondary growth</b>	<b>0.009 %</b>	<b>-1.1813</b>	<b>0.90</b>	<b>0.13</b>
<a href="#">GO:2000605</a>	<i>positive regulation of secondary growth</i>	0.004 %	-1.2029	0.90	0.87
<a href="#">GO:0044070</a>	<b>regulation of anion transport</b>	<b>0.164 %</b>	<b>-1.9647</b>	<b>0.83</b>	<b>0.15</b>
<a href="#">GO:0006820</a>	<i>anion transport</i>	1.524 %	-1.4191	0.89	0.57
<a href="#">GO:0034762</a>	<i>regulation of transmembrane transport</i>	0.216 %	-1.8076	0.85	0.81
<a href="#">GO:0010359</a>	<i>regulation of anion channel activity</i>	0.047 %	-1.9707	0.84	0.82
<a href="#">GO:0034765</a>	<i>regulation of ion transmembrane transport</i>	0.207 %	-1.8076	0.83	0.92
<a href="#">GO:0098656</a>	<i>anion transmembrane transport</i>	0.902 %	-1.7464	0.88	0.74
<a href="#">GO:1903959</a>	<i>regulation of anion transmembrane transport</i>	0.129 %	-1.9707	0.83	0.95
<a href="#">GO:0022898</a>	<i>regulation of transmembrane transporter activity</i>	0.060 %	-1.8325	0.85	1.00
<a href="#">GO:0051049</a>	<i>regulation of transport</i>	0.609 %	-1.3238	0.84	0.89
<a href="#">GO:0032412</a>	<i>regulation of ion transmembrane transporter activity</i>	0.060 %	-1.8325	0.84	0.98
<a href="#">GO:0032409</a>	<i>regulation of transporter activity</i>	0.060 %	-1.8325	0.86	0.73
<a href="#">GO:0043269</a>	<i>regulation of ion transport</i>	0.302 %	-1.6026	0.84	0.85
<a href="#">GO:0015706</a>	<i>nitrate transport</i>	0.108 %	-1.3219	0.90	0.62
<a href="#">GO:0000018</a>	<b>regulation of DNA recombination</b>	<b>0.060 %</b>	<b>-1.5531</b>	<b>0.87</b>	<b>0.16</b>
<a href="#">GO:0045910</a>	<i>negative regulation of DNA recombination</i>	0.035 %	-1.5531	0.86	0.72
<a href="#">GO:0051053</a>	<i>negative regulation of DNA metabolic process</i>	0.086 %	-1.2103	0.85	0.77
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-3.2569</b>	<b>0.87</b>	<b>0.16</b>

<a href="#">GO:0009058</a>	biosynthetic process	24.432 %	-1.2223	0.93	0.16
<a href="#">GO:0043446</a>	cellular alkane metabolic process	0.017 %	-1.6941	0.85	0.21
<a href="#">GO:0043447</a>	alkane biosynthetic process	0.017 %	-1.6941	0.82	0.21
<a href="#">GO:0045595</a>	regulation of cell differentiation	0.250 %	-1.1485	0.82	0.21
<a href="#">GO:0006097</a>	glyoxylate cycle	0.030 %	-1.4094	0.81	0.21
<a href="#">GO:0046487</a>	<i>glyoxylate metabolic process</i>	0.035 %	-1.3857	0.83	0.72
<a href="#">GO:0012501</a>	programmed cell death	0.600 %	-1.6777	0.85	0.23
<a href="#">GO:0008219</a>	cell death	0.734 %	-1.2769	0.85	0.23
<a href="#">GO:0022900</a>	electron transport chain	0.479 %	-1.2163	0.81	0.27
<a href="#">GO:0019915</a>	lipid storage	0.112 %	-1.3857	0.91	0.28
<a href="#">GO:0006979</a>	response to oxidative stress	1.908 %	-1.7754	0.83	0.29
<a href="#">GO:0009308</a>	amine metabolic process	0.522 %	-1.2250	0.88	0.29
<a href="#">GO:0044763</a>	single-organism cellular process	23.034 %	-1.2432	0.87	0.32
<a href="#">GO:0032879</a>	regulation of localization	0.734 %	-1.2541	0.90	0.32
<a href="#">GO:0080167</a>	response to karrikin	0.531 %	-1.1251	0.83	0.33
<a href="#">GO:0042221</a>	response to chemical	12.434 %	-3.3868	0.80	0.33
<a href="#">GO:0006629</a>	lipid metabolic process	4.683 %	-4.8462	0.79	0.35
<a href="#">GO:0010183</a>	pollen tube guidance	0.117 %	-1.2029	0.77	0.36
<a href="#">GO:0050918</a>	<i>positive chemotaxis</i>	0.117 %	-1.2029	0.78	1.00
<a href="#">GO:0042330</a>	<i>taxis</i>	0.117 %	-1.2029	0.82	0.95
<a href="#">GO:0006935</a>	<i>chemotaxis</i>	0.117 %	-1.2029	0.78	1.00
<a href="#">GO:0098581</a>	detection of external biotic stimulus	0.030 %	-1.4611	0.83	0.36
<a href="#">GO:0016045</a>	<i>detection of bacterium</i>	0.013 %	-1.5888	0.84	0.95
<a href="#">GO:0009595</a>	<i>detection of biotic stimulus</i>	0.030 %	-1.4611	0.85	0.67
<a href="#">GO:0098543</a>	<i>detection of other organism</i>	0.017 %	-1.5888	0.84	0.97
<a href="#">GO:0014070</a>	response to organic cyclic compound	1.606 %	-2.1047	0.76	0.38
<a href="#">GO:0009735</a>	<i>response to cytokinin</i>	1.010 %	-1.0136	0.77	0.51
<a href="#">GO:0033993</a>	<i>response to lipid</i>	3.267 %	-1.0090	0.75	0.59
<a href="#">GO:0034484</a>	raffinose catabolic process	0.004 %	-1.2754	0.82	0.41
<a href="#">GO:0033530</a>	<i>raffinose metabolic process</i>	0.013 %	-1.1228	0.83	0.56
<a href="#">GO:0005991</a>	<i>trehalose metabolic process</i>	0.104 %	-1.0034	0.80	0.85
<a href="#">GO:0005992</a>	<i>trehalose biosynthetic process</i>	0.095 %	-1.0217	0.77	0.67
<a href="#">GO:0071241</a>	cellular response to inorganic substance	0.246 %	-1.3737	0.75	0.41
<a href="#">GO:0042542</a>	<i>response to hydrogen peroxide</i>	0.268 %	-1.0264	0.78	0.53
<a href="#">GO:0071277</a>	cellular response to calcium ion	0.009 %	-1.3974	0.80	0.41
<a href="#">GO:0071249</a>	<i>cellular response to nitrate</i>	0.017 %	-1.3526	0.77	0.67
<a href="#">GO:0009704</a>	de-etiolation	0.047 %	-1.0936	0.80	0.42
<a href="#">GO:0009644</a>	<i>response to high light intensity</i>	0.324 %	-1.0012	0.83	0.52
<a href="#">GO:0016099</a>	monoterpenoid biosynthetic process	0.004 %	-1.6079	0.73	0.45
<a href="#">GO:0052651</a>	monoacylglycerol catabolic process	0.004 %	-1.7448	0.74	0.45
<a href="#">GO:0046340</a>	<i>diacylglycerol catabolic process</i>	0.004 %	-1.7448	0.74	0.84
<a href="#">GO:0046339</a>	<i>diacylglycerol metabolic process</i>	0.022 %	-1.6488	0.73	0.70
<a href="#">GO:0006639</a>	<i>acylglycerol metabolic process</i>	0.147 %	-1.0410	0.70	0.87
<a href="#">GO:0046464</a>	<i>acylglycerol catabolic process</i>	0.022 %	-1.5531	0.71	0.91
<a href="#">GO:0046461</a>	<i>neutral lipid catabolic process</i>	0.022 %	-1.5531	0.72	0.77
<a href="#">GO:0046462</a>	<i>monoacylglycerol metabolic process</i>	0.004 %	-1.7448	0.75	0.65
<a href="#">GO:0046503</a>	<i>glycerolipid catabolic process</i>	0.035 %	-1.5531	0.72	0.64
<a href="#">GO:0080053</a>	response to phenylalanine	0.004 %	-1.8023	0.81	0.46
<a href="#">GO:0043201</a>	<i>response to leucine</i>	0.004 %	-1.8023	0.82	0.66
<a href="#">GO:0080052</a>	<i>response to histidine</i>	0.004 %	-1.8023	0.81	0.66
<a href="#">GO:0055085</a>	transmembrane transport	5.175 %	-1.5628	0.91	0.47
<a href="#">GO:0009408</a>	response to heat	0.859 %	-1.0129	0.81	0.47
<a href="#">GO:0051592</a>	response to calcium ion	0.052 %	-1.1414	0.82	0.47
<a href="#">GO:0044711</a>	single-organism biosynthetic process	7.549 %	-2.4709	0.76	0.49
<a href="#">GO:0044249</a>	<i>cellular biosynthetic process</i>	22.844 %	-1.4571	0.84	0.52
<a href="#">GO:0055114</a>	<i>oxidation-reduction process</i>	7.462 %	-1.6819	0.78	0.53
<a href="#">GO:1901576</a>	<i>organic substance biosynthetic process</i>	22.969 %	-1.1190	0.86	0.72
<a href="#">GO:0016098</a>	monoterpenoid metabolic process	0.004 %	-1.6079	0.75	0.49
<a href="#">GO:0009617</a>	response to bacterium	1.748 %	-2.1383	0.80	0.49
<a href="#">GO:0010035</a>	response to inorganic substance	3.699 %	-1.6886	0.76	0.49
<a href="#">GO:0001101</a>	<i>response to acid chemical</i>	5.011 %	-2.5696	0.75	0.58
<a href="#">GO:0044700</a>	<i>single organism signaling</i>	8.899 %	-1.2194	0.87	0.91
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	6.504 %	-2.0395	0.74	0.64
<a href="#">GO:0070887</a>	<i>cellular response to chemical stimulus</i>	5.287 %	-1.7785	0.70	0.64
<a href="#">GO:0007165</a>	<i>signal transduction</i>	8.731 %	-1.2290	0.64	0.67
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-2.0284	0.73	0.70
<a href="#">GO:0006012</a>	galactose metabolic process	0.121 %	-1.1351	0.81	0.50
<a href="#">GO:0009311</a>	<i>oligosaccharide metabolic process</i>	0.466 %	-1.0105	0.80	0.61

Biological Process (59) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap



## GROUP 6

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0015706</a>	nitrate transport	0.108 %		-1.4979	0.94	0.00
<a href="#">GO:0016114</a>	terpenoid biosynthetic process	0.591 %		-6.5719	0.52	0.00
<i>GO:0046246</i>	<i>terpene biosynthetic process</i>	0.043 %		-3.2168	0.58	0.86
<i>GO:0051762</i>	<i>sesquiterpene biosynthetic process</i>	0.009 %		-3.9846	0.61	0.67
<i>GO:0051761</i>	<i>sesquiterpene metabolic process</i>	0.009 %		-3.9846	0.61	0.78
<i>GO:0008299</i>	<i>isoprenoid biosynthetic process</i>	0.738 %		-6.0109	0.52	0.96
<i>GO:0008610</i>	<i>lipid biosynthetic process</i>	2.464 %		-3.4983	0.60	0.69
<i>GO:0009686</i>	<i>gibberellin biosynthetic process</i>	0.134 %		-1.1845	0.55	0.84
<i>GO:0009685</i>	<i>gibberellin metabolic process</i>	0.138 %		-1.1404	0.55	0.97
<i>GO:0006720</i>	<i>isoprenoid metabolic process</i>	0.850 %		-5.5992	0.59	0.67
<i>GO:0006721</i>	<i>terpenoid metabolic process</i>	0.699 %		-6.0860	0.52	0.94
<i>GO:0006644</i>	<i>phospholipid metabolic process</i>	1.014 %		-1.4924	0.59	0.71
<i>GO:0044255</i>	<i>cellular lipid metabolic process</i>	3.224 %		-2.7209	0.58	0.82
<i>GO:0045338</i>	<i>farnesyl diphosphate metabolic process</i>	0.078 %		-3.2729	0.58	0.80
<i>GO:0016099</i>	<i>monoterpenoid biosynthetic process</i>	0.004 %		-1.7856	0.63	0.65
<i>GO:0016098</i>	<i>monoterpenoid metabolic process</i>	0.004 %		-1.7856	0.64	0.65
<i>GO:0042214</i>	<i>terpene metabolic process</i>	0.065 %		-2.8430	0.59	0.76
<i>GO:0016102</i>	<i>diterpenoid biosynthetic process</i>	0.147 %		-1.1799	0.55	0.97

<a href="#">GO:0016101</a>	diterpenoid metabolic process	0.173 %	-1.0857	0.56	0.86
<a href="#">GO:0071456</a>	<b>cellular response to hypoxia</b>	<b>0.117 %</b>	<b>-4.0156</b>	<b>0.69</b>	<b>0.04</b>
<a href="#">GO:0071453</a>	cellular response to oxygen levels	0.129 %	-3.8901	0.70	0.87
<a href="#">GO:0036293</a>	response to decreased oxygen levels	0.281 %	-2.8612	0.74	0.99
<a href="#">GO:0036294</a>	cellular response to decreased oxygen levels	0.129 %	-3.8901	0.69	0.99
<a href="#">GO:0001666</a>	response to hypoxia	0.250 %	-2.9590	0.74	0.92
<a href="#">GO:0006032</a>	<b>chitin catabolic process</b>	<b>0.073 %</b>	<b>-1.5860</b>	<b>0.72</b>	<b>0.06</b>
<a href="#">GO:0046348</a>	amino sugar catabolic process	0.073 %	-1.5860	0.75	0.91
<a href="#">GO:0006030</a>	chitin metabolic process	0.073 %	-1.5739	0.73	0.99
<a href="#">GO:0006026</a>	aminoglycan catabolic process	0.073 %	-1.5860	0.74	0.98
<a href="#">GO:1901071</a>	glucosamine-containing compound metabolic process	0.078 %	-1.5397	0.76	0.91
<a href="#">GO:1901072</a>	glucosamine-containing compound catabolic process	0.073 %	-1.5860	0.74	1.00
<a href="#">GO:0030007</a>	<b>cellular potassium ion homeostasis</b>	<b>0.022 %</b>	<b>-1.4335</b>	<b>0.75</b>	<b>0.17</b>
<a href="#">GO:0055075</a>	potassium ion homeostasis	0.069 %	-1.2966	0.84	0.86
<a href="#">GO:0055067</a>	monovalent inorganic cation homeostasis	0.324 %	-1.1121	0.85	0.63
<a href="#">GO:0030004</a>	cellular monovalent inorganic cation homeostasis	0.160 %	-1.2845	0.72	0.92
<a href="#">GO:0006885</a>	regulation of pH	0.255 %	-1.4007	0.83	0.79
<a href="#">GO:0009820</a>	<b>alkaloid metabolic process</b>	<b>0.009 %</b>	<b>-1.4881</b>	<b>0.88</b>	<b>0.27</b>
<a href="#">GO:0006623</a>	<b>protein targeting to vacuole</b>	<b>0.155 %</b>	<b>-1.1082</b>	<b>0.90</b>	<b>0.29</b>
<a href="#">GO:0072666</a>	establishment of protein localization to vacuole	0.155 %	-1.1082	0.90	1.00
<a href="#">GO:0072665</a>	protein localization to vacuole	0.155 %	-1.1082	0.91	0.68
<a href="#">GO:0009611</a>	<b>response to wounding</b>	<b>0.816 %</b>	<b>-3.0835</b>	<b>0.85</b>	<b>0.29</b>
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-2.0281</b>	<b>0.82</b>	<b>0.30</b>
<a href="#">GO:0009647</a>	<b>skotomorphogenesis</b>	<b>0.026 %</b>	<b>-1.5397</b>	<b>0.77</b>	<b>0.31</b>
<a href="#">GO:0009642</a>	response to light intensity	0.587 %	-1.0153	0.79	0.52
<a href="#">GO:0009646</a>	response to absence of light	0.142 %	-1.1321	0.80	0.69
<a href="#">GO:0006629</a>	<b>lipid metabolic process</b>	<b>4.683 %</b>	<b>-2.0658</b>	<b>0.74</b>	<b>0.34</b>
<a href="#">GO:0042744</a>	<b>hydrogen peroxide catabolic process</b>	<b>0.380 %</b>	<b>-1.1708</b>	<b>0.85</b>	<b>0.36</b>
<a href="#">GO:0070482</a>	<b>response to oxygen levels</b>	<b>0.285 %</b>	<b>-2.8485</b>	<b>0.81</b>	<b>0.37</b>
<a href="#">GO:0009821</a>	<b>alkaloid biosynthetic process</b>	<b>0.795 %</b>	<b>-1.5739</b>	<b>0.77</b>	<b>0.37</b>
<a href="#">GO:0009938</a>	<b>negative regulation of gibberellic acid mediated signaling pathway</b>	<b>0.039 %</b>	<b>-1.5397</b>	<b>0.74</b>	<b>0.38</b>
<a href="#">GO:0009937</a>	regulation of gibberellic acid mediated signaling pathway	0.073 %	-1.1121	0.73	0.75
<a href="#">GO:0009753</a>	<b>response to jasmonic acid</b>	<b>0.919 %</b>	<b>-1.5128</b>	<b>0.80</b>	<b>0.45</b>
<a href="#">GO:0071249</a>	<b>cellular response to nitrate</b>	<b>0.017 %</b>	<b>-1.5288</b>	<b>0.79</b>	<b>0.45</b>
<a href="#">GO:1902170</a>	cellular response to reactive nitrogen species	0.104 %	-1.0155	0.79	0.69
<a href="#">GO:0006022</a>	<b>aminoglycan metabolic process</b>	<b>0.086 %</b>	<b>-1.5183</b>	<b>0.80</b>	<b>0.46</b>
<a href="#">GO:0070887</a>	<b>cellular response to chemical stimulus</b>	<b>5.287 %</b>	<b>-1.3480</b>	<b>0.76</b>	<b>0.48</b>
<a href="#">GO:0006040</a>	<b>amino sugar metabolic process</b>	<b>0.138 %</b>	<b>-1.3852</b>	<b>0.82</b>	<b>0.48</b>
<a href="#">GO:0044711</a>	<b>single-organism biosynthetic process</b>	<b>7.549 %</b>	<b>-1.0243</b>	<b>0.73</b>	<b>0.49</b>
<a href="#">GO:0042221</a>	<b>response to chemical</b>	<b>12.434 %</b>	<b>-1.1535</b>	<b>0.83</b>	<b>0.49</b>
<a href="#">GO:0030104</a>	<b>water homeostasis</b>	<b>0.052 %</b>	<b>-1.1531</b>	<b>0.87</b>	<b>0.50</b>

Biological Process (147) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 7

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0008299</a>	isoprenoid biosynthetic process	0.738 %		-9.2379	0.50	0.00
<i>GO:0051762</i>	<i>sesquiterpene biosynthetic process</i>	0.009 %		-1.7053	0.60	1.38
<i>GO:0051761</i>	<i>sesquiterpene metabolic process</i>	0.009 %		-1.7053	0.63	0.86
<i>GO:0008300</i>	<i>isoprenoid catabolic process</i>	0.052 %		-2.8245	0.57	0.76
<i>GO:0016042</i>	<i>lipid catabolic process</i>	1.032 %		-1.1681	0.56	0.71
<i>GO:0009240</i>	<i>isopentenyl diphosphate biosynthetic process</i>	0.091 %		-1.3584	0.54	0.96
<i>GO:0019288</i>	<i>isopentenyl diphosphate biosynthetic process, methylerythritol 4-phosphate pathway</i>	0.047 %		-1.7053	0.52	0.75
<i>GO:0033384</i>	<i>geranyl diphosphate biosynthetic process</i>	0.056 %		-1.6269	0.56	0.76
<i>GO:0033383</i>	<i>geranyl diphosphate metabolic process</i>	0.056 %		-1.5313	0.59	0.76
<i>GO:0033386</i>	<i>geranylgeranyl diphosphate biosynthetic process</i>	0.047 %		-1.8013	0.56	0.75
<i>GO:0033385</i>	<i>geranylgeranyl diphosphate metabolic process</i>	0.047 %		-1.8013	0.59	0.75
<i>GO:0044242</i>	<i>cellular lipid catabolic process</i>	0.315 %		-1.5500	0.56	0.62
<i>GO:0006644</i>	<i>phospholipid metabolic process</i>	1.014 %		-3.2700	0.56	0.71
<i>GO:0044255</i>	<i>cellular lipid metabolic process</i>	3.224 %		-4.2515	0.56	0.82
<i>GO:0045338</i>	<i>farnesyl diphosphate metabolic process</i>	0.078 %		-4.8909	0.58	0.78
<i>GO:0045337</i>	<i>farnesyl diphosphate biosynthetic process</i>	0.056 %		-1.6269	0.55	0.90
<i>GO:0045339</i>	<i>farnesyl diphosphate catabolic process</i>	0.023 %		-4.5667	0.57	0.71
<i>GO:0016099</i>	<i>monoterpenoid biosynthetic process</i>	0.004 %		-3.6542	0.63	0.63

<a href="#">GO:0016098</a>	monoterpenoid metabolic process	0.004 %	-3.6542	0.66	0.63
<a href="#">GO:0016115</a>	terpenoid catabolic process	0.047 %	-2.8397	0.56	0.94
<a href="#">GO:0016114</a>	terpenoid biosynthetic process	0.591 %	-5.8289	0.50	0.94
<a href="#">GO:0046246</a>	terpene biosynthetic process	0.043 %	-2.9727	0.57	0.75
<a href="#">GO:0046490</a>	isopentenyl diphosphate metabolic process	0.091 %	-1.3584	0.62	0.75
<a href="#">GO:0009395</a>	phospholipid catabolic process	0.052 %	-3.3528	0.58	0.85
<a href="#">GO:0008654</a>	phospholipid biosynthetic process	0.643 %	-1.9514	0.52	0.73
<a href="#">GO:0008610</a>	lipid biosynthetic process	2.464 %	-5.4348	0.53	0.69
<a href="#">GO:0006720</a>	isoprenoid metabolic process	0.850 %	-8.6158	0.58	0.69
<a href="#">GO:0006721</a>	terpenoid metabolic process	0.699 %	-5.3497	0.54	0.96
<a href="#">GO:1901926</a>	cadinene metabolic process	1.509 %	-2.5256	0.47	1.23
<a href="#">GO:1901928</a>	cadinene biosynthetic process	0.614 %	-2.5256	0.47	2.02
<a href="#">GO:0042214</a>	terpene metabolic process	0.065 %	-2.6007	0.60	0.77
<a href="#">GO:0080158</a>	<b>chloroplast ribulose biphosphate carboxylase complex biogenesis</b>	<b>0.017 %</b>	<b>-1.8013</b>	<b>0.96</b>	<b>0.00</b>
<a href="#">GO:0071474</a>	<b>cellular hyperosmotic response</b>	<b>0.013 %</b>	<b>-3.1753</b>	<b>0.86</b>	<b>0.03</b>
<a href="#">GO:0042538</a>	hyperosmotic salinity response	0.220 %	-1.2811	0.89	0.79
<a href="#">GO:0071472</a>	cellular response to salt stress	0.147 %	-1.9994	0.84	0.80
<a href="#">GO:0071470</a>	cellular response to osmotic stress	0.207 %	-1.7681	0.84	0.62
<a href="#">GO:0071475</a>	cellular hyperosmotic salinity response	0.009 %	-3.1753	0.86	0.67
<a href="#">GO:0009812</a>	<b>flavonoid metabolic process</b>	<b>0.414 %</b>	<b>-1.1593</b>	<b>0.90</b>	<b>0.07</b>
<a href="#">GO:0046434</a>	organophosphate catabolic process	0.112 %	-2.2567	0.76	0.07
<a href="#">GO:0043473</a>	<b>pigmentation</b>	<b>0.022 %</b>	<b>-1.0150</b>	<b>0.91</b>	<b>0.08</b>
<a href="#">GO:0009850</a>	<b>auxin metabolic process</b>	<b>0.332 %</b>	<b>-1.8057</b>	<b>0.84</b>	<b>0.08</b>
<a href="#">GO:0080024</a>	indolebutyric acid metabolic process	0.022 %	-1.2971	0.70	0.70
<a href="#">GO:0009851</a>	auxin biosynthetic process	0.250 %	-1.1485	0.79	0.86
<a href="#">GO:0042445</a>	hormone metabolic process	0.695 %	-1.3354	0.87	0.83
<a href="#">GO:0009684</a>	indoleacetic acid biosynthetic process	0.073 %	-1.4085	0.62	0.76
<a href="#">GO:0019684</a>	<b>photosynthesis, light reaction</b>	<b>0.505 %</b>	<b>-1.9221</b>	<b>0.86</b>	<b>0.08</b>
<a href="#">GO:0009765</a>	photosynthesis, light harvesting	0.160 %	-1.8453	0.87	0.77
<a href="#">GO:0019253</a>	reductive pentose-phosphate cycle	0.086 %	-1.6452	0.59	0.73
<a href="#">GO:0019685</a>	photosynthesis, dark reaction	0.086 %	-1.6452	0.59	0.73
<a href="#">GO:0010078</a>	<b>maintenance of root meristem identity</b>	<b>0.060 %</b>	<b>-1.5037</b>	<b>0.85</b>	<b>0.08</b>
<a href="#">GO:0010588</a>	cotyledon vascular tissue pattern formation	0.060 %	-1.0150	0.85	0.76
<a href="#">GO:0010338</a>	leaf formation	0.022 %	-1.2094	0.86	0.52
<a href="#">GO:0010073</a>	meristem maintenance	0.427 %	-1.1576	0.85	0.72
<a href="#">GO:0009965</a>	leaf morphogenesis	0.380 %	-1.0235	0.84	0.70
<a href="#">GO:0010016</a>	shoot system morphogenesis	0.708 %	-1.2976	0.84	0.52
<a href="#">GO:0015979</a>	<b>photosynthesis</b>	<b>1.057 %</b>	<b>-3.0408</b>	<b>0.88</b>	<b>0.09</b>
<a href="#">GO:0006124</a>	ferredoxin metabolic process	1.917 %	-2.0042	0.86	0.10
<a href="#">GO:0033591</a>	<b>response to L-ascorbic acid</b>	<b>0.017 %</b>	<b>-1.7273</b>	<b>0.92</b>	<b>0.11</b>
<a href="#">GO:0033273</a>	response to vitamin	0.026 %	-1.5173	0.92	0.90
<a href="#">GO:0007584</a>	response to nutrient	0.047 %	-1.0955	0.92	0.62
<a href="#">GO:0005975</a>	<b>carbohydrate metabolic process</b>	<b>4.670 %</b>	<b>-1.0907</b>	<b>0.87</b>	<b>0.12</b>
<a href="#">GO:0040009</a>	<b>regulation of growth rate</b>	<b>0.013 %</b>	<b>-1.7506</b>	<b>0.94</b>	<b>0.12</b>
<a href="#">GO:0046620</a>	regulation of organ growth	0.082 %	-1.2971	0.83	0.86
<a href="#">GO:0046622</a>	positive regulation of organ growth	0.017 %	-1.6843	0.84	0.81
<a href="#">GO:0035265</a>	organ growth	0.117 %	-1.1839	0.84	0.54
<a href="#">GO:0048639</a>	positive regulation of developmental growth	0.026 %	-1.6843	0.84	0.51
<a href="#">GO:0030308</a>	negative regulation of cell growth	0.043 %	-1.2811	0.78	0.55
<a href="#">GO:0008284</a>	positive regulation of cell proliferation	0.129 %	-1.0400	0.86	0.14
<a href="#">GO:0044710</a>	single-organism metabolic process	18.390 %	-6.6668	0.80	0.15
<a href="#">GO:0009058</a>	<b>biosynthetic process</b>	<b>24.432 %</b>	<b>-4.5137</b>	<b>0.88</b>	<b>0.16</b>
<a href="#">GO:0006556</a>	<b>S-adenosylmethionine biosynthetic process</b>	<b>0.017 %</b>	<b>-1.5458</b>	<b>0.85</b>	<b>0.17</b>
<a href="#">GO:0044272</a>	sulfur compound biosynthetic process	0.699 %	-1.2194	0.81	0.66
<a href="#">GO:0046500</a>	S-adenosylmethionine metabolic process	0.043 %	-1.3980	0.89	0.53
<a href="#">GO:0016137</a>	glycoside metabolic process	0.017 %	-2.7117	0.77	0.20
<a href="#">GO:0009853</a>	photorespiration	0.242 %	-2.5132	0.84	0.21
<a href="#">GO:0043094</a>	cellular metabolic compound salvage	0.419 %	-1.9671	0.83	0.22
<a href="#">GO:0044237</a>	cellular metabolic process	46.461 %	-1.0784	0.86	0.23
<a href="#">GO:0015977</a>	carbon fixation	0.104 %	-3.0285	0.75	0.23
<a href="#">GO:0009696</a>	<b>salicylic acid metabolic process</b>	<b>0.121 %</b>	<b>-5.0018</b>	<b>0.69</b>	<b>0.24</b>
<a href="#">GO:0032787</a>	monocarboxylic acid metabolic process	2.128 %	-2.4511	0.64	0.56
<a href="#">GO:0043436</a>	oxoacid metabolic process	5.002 %	-1.4832	0.61	0.93
<a href="#">GO:0019752</a>	carboxylic acid metabolic process	4.437 %	-1.5964	0.61	0.82
<a href="#">GO:0006082</a>	organic acid metabolic process	5.015 %	-1.0811	0.62	0.71
<a href="#">GO:0046482</a>	para-aminobenzoic acid metabolic process	0.017 %	-2.8095	0.73	0.82
<a href="#">GO:0009694</a>	jasmonic acid metabolic process	0.117 %	-1.9111	0.70	0.56
<a href="#">GO:0018874</a>	benzoate metabolic process	0.009 %	-3.1527	0.74	0.78
<a href="#">GO:0009611</a>	<b>response to wounding</b>	<b>0.816 %</b>	<b>-1.1274</b>	<b>0.92</b>	<b>0.24</b>
<a href="#">GO:0046148</a>	<b>pigment biosynthetic process</b>	<b>0.639 %</b>	<b>-2.5926</b>	<b>0.70</b>	<b>0.28</b>
<a href="#">GO:0009718</a>	anthocyanin-containing compound biosynthetic process	0.121 %	-1.9566	0.66	0.82
<a href="#">GO:0009813</a>	flavonoid biosynthetic process	0.332 %	-1.4041	0.82	0.91

<a href="#">GO:0016109</a>	tetraterpenoid biosynthetic process	0.147 %	-1.0809	0.54	0.97
<a href="#">GO:0016117</a>	carotenoid biosynthetic process	0.147 %	-1.0809	0.53	0.83
<a href="#">GO:0046283</a>	anthocyanin-containing compound metabolic process	0.190 %	-1.5289	0.71	0.85
<a href="#">GO:0010051</a>	<b>xylem and phloem pattern formation</b>	<b>0.259 %</b>	<b>-1.1044</b>	<b>0.85</b>	<b>0.30</b>
<a href="#">GO:0010218</a>	<b>response to far red light</b>	<b>0.250 %</b>	<b>-2.5387</b>	<b>0.90</b>	<b>0.31</b>
<a href="#">GO:0010114</a>	response to red light	0.259 %	-2.3936	0.90	0.79
<a href="#">GO:0009641</a>	shade avoidance	0.069 %	-1.0357	0.91	0.71
<a href="#">GO:0009637</a>	response to blue light	0.341 %	-2.0547	0.90	0.60
<a href="#">GO:0009639</a>	response to red or far red light	0.872 %	-1.8202	0.90	0.67
<a href="#">GO:0044763</a>	<b>single-organism cellular process</b>	<b>23.034 %</b>	<b>-1.5294</b>	<b>0.81</b>	<b>0.32</b>
<a href="#">GO:0006629</a>	lipid metabolic process	4.683 %	-3.9407	0.66	0.35
<a href="#">GO:0009817</a>	<b>defense response to fungus, incompatible interaction</b>	<b>0.207 %</b>	<b>-1.6760</b>	<b>0.91</b>	<b>0.35</b>
<a href="#">GO:0009627</a>	systemic acquired resistance	0.281 %	-1.3749	0.91	0.81
<a href="#">GO:0042440</a>	<b>pigment metabolic process</b>	<b>0.785 %</b>	<b>-2.2474</b>	<b>0.72</b>	<b>0.35</b>
<a href="#">GO:0009834</a>	<b>plant-type secondary cell wall biogenesis</b>	<b>0.263 %</b>	<b>-1.4425</b>	<b>0.89</b>	<b>0.37</b>
<a href="#">GO:2000652</a>	regulation of secondary cell wall biogenesis	0.095 %	-1.1542	0.88	0.78
<a href="#">GO:1903338</a>	regulation of cell wall organization or biogenesis	0.138 %	-1.1264	0.90	0.53
<a href="#">GO:0006730</a>	<b>one-carbon metabolic process</b>	<b>0.164 %</b>	<b>-1.0109</b>	<b>0.71</b>	<b>0.37</b>
<a href="#">GO:0070301</a>	<b>cellular response to hydrogen peroxide</b>	<b>0.035 %</b>	<b>-2.7662</b>	<b>0.87</b>	<b>0.37</b>
<a href="#">GO:0042542</a>	response to hydrogen peroxide	0.268 %	-1.1238	0.90	0.82
<a href="#">GO:0034599</a>	cellular response to oxidative stress	0.453 %	-1.5349	0.85	0.58
<a href="#">GO:0034614</a>	cellular response to reactive oxygen species	0.207 %	-1.7322	0.85	0.76
<a href="#">GO:0042819</a>	<b>vitamin B6 biosynthetic process</b>	<b>0.039 %</b>	<b>-1.7506</b>	<b>0.67</b>	<b>0.37</b>
<a href="#">GO:0042816</a>	vitamin B6 metabolic process	0.039 %	-1.7506	0.73	0.73
<a href="#">GO:0072525</a>	pyridine-containing compound biosynthetic process	0.099 %	-1.2366	0.81	0.70
<a href="#">GO:0019637</a>	<b>organophosphate metabolic process</b>	<b>2.702 %</b>	<b>-1.1681</b>	<b>0.81</b>	<b>0.40</b>
<a href="#">GO:0016139</a>	<b>glycoside catabolic process</b>	<b>0.009 %</b>	<b>-2.9909</b>	<b>0.73</b>	<b>0.43</b>
<a href="#">GO:1901658</a>	glycosyl compound catabolic process	0.211 %	-2.1178	0.67	0.73
<a href="#">GO:0009312</a>	<b>oligosaccharide biosynthetic process</b>	<b>0.255 %</b>	<b>-5.5762</b>	<b>0.57</b>	<b>0.44</b>
<a href="#">GO:0044723</a>	single-organism carbohydrate metabolic process	2.283 %	-2.3801	0.59	0.60
<a href="#">GO:0046351</a>	disaccharide biosynthetic process	0.155 %	-6.0590	0.57	0.86
<a href="#">GO:0000023</a>	maltose metabolic process	0.017 %	-3.1093	0.67	0.73
<a href="#">GO:0000024</a>	maltose biosynthetic process	0.004 %	-3.3528	0.66	0.67
<a href="#">GO:0016051</a>	carbohydrate biosynthetic process	1.442 %	-3.7322	0.53	0.77
<a href="#">GO:0009311</a>	oligosaccharide metabolic process	0.466 %	-3.9962	0.62	0.65
<a href="#">GO:0044264</a>	cellular polysaccharide metabolic process	1.187 %	-1.0631	0.70	0.86
<a href="#">GO:0044262</a>	cellular carbohydrate metabolic process	1.817 %	-2.3581	0.73	0.75
<a href="#">GO:0005991</a>	trehalose metabolic process	0.104 %	-3.9584	0.62	0.88
<a href="#">GO:0034637</a>	cellular carbohydrate biosynthetic process	0.915 %	-3.4789	0.52	0.83
<a href="#">GO:0005992</a>	trehalose biosynthetic process	0.095 %	-4.0157	0.58	0.89
<a href="#">GO:0005984</a>	disaccharide metabolic process	0.285 %	-5.0240	0.60	0.90
<a href="#">GO:0005983</a>	<b>starch catabolic process</b>	<b>0.073 %</b>	<b>-2.6123</b>	<b>0.70</b>	<b>0.44</b>
<a href="#">GO:0009251</a>	glucan catabolic process	0.229 %	-2.0804	0.71	0.72
<a href="#">GO:0000272</a>	polysaccharide catabolic process	0.777 %	-1.2118	0.68	0.82
<a href="#">GO:0044247</a>	cellular polysaccharide catabolic process	0.229 %	-2.0804	0.68	0.87
<a href="#">GO:0044275</a>	cellular carbohydrate catabolic process	0.298 %	-1.7640	0.68	0.74
<a href="#">GO:0010413</a>	glucuronoxylan metabolic process	0.047 %	-1.1718	0.75	0.52
<a href="#">GO:0010417</a>	glucuronoxylan biosynthetic process	0.047 %	-1.1718	0.58	0.89
<a href="#">GO:0005982</a>	starch metabolic process	0.268 %	-1.6546	0.73	0.77
<a href="#">GO:0045492</a>	xylan biosynthetic process	0.138 %	-1.0955	0.55	0.89
<a href="#">GO:1901136</a>	<b>carbohydrate derivative catabolic process</b>	<b>0.337 %</b>	<b>-1.7846</b>	<b>0.82</b>	<b>0.46</b>
<a href="#">GO:0006972</a>	<b>hyperosmotic response</b>	<b>0.263 %</b>	<b>-1.1663</b>	<b>0.89</b>	<b>0.48</b>
<a href="#">GO:0044711</a>	<b>single-organism biosynthetic process</b>	<b>7.549 %</b>	<b>-7.5650</b>	<b>0.63</b>	<b>0.49</b>
<a href="#">GO:0044249</a>	cellular biosynthetic process	22.844 %	-4.4432	0.75	0.52
<a href="#">GO:1901576</a>	organic substance biosynthetic process	22.969 %	-3.9731	0.76	0.72
<a href="#">GO:0044712</a>	<b>single-organism catabolic process</b>	<b>2.676 %</b>	<b>-1.1673</b>	<b>0.63</b>	<b>0.50</b>
<a href="#">GO:1901575</a>	organic substance catabolic process	7.402 %	-1.2019	0.78	0.74

Biological Process (206) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 8

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009834</a>	plant-type secondary cell wall biogenesis	0.263 %		-5.3398	0.89	0.00
<a href="#">GO:0042546</a>	cell wall biogenesis	0.928 %		-3.3563	0.89	0.73
<a href="#">GO:0000271</a>	polysaccharide biosynthetic process	0.868 %		-1.5221	0.68	0.83
<a href="#">GO:2000652</a>	regulation of secondary cell wall biogenesis	0.095 %		-1.0080	0.84	0.78
<a href="#">GO:0044264</a>	cellular polysaccharide metabolic process	1.187 %		-1.2113	0.78	0.86
<a href="#">GO:0044042</a>	glucan metabolic process	0.962 %		-1.5221	0.81	0.80
<a href="#">GO:0071669</a>	plant-type cell wall organization or biogenesis	1.152 %		-3.5661	0.90	0.64
<a href="#">GO:0009664</a>	plant-type cell wall organization	0.652 %		-1.6024	0.88	0.87
<a href="#">GO:0045488</a>	pectin metabolic process	0.647 %		-1.5924	0.81	0.71
<a href="#">GO:0052546</a>	cell wall pectin metabolic process	0.095 %		-1.6730	0.78	0.83
<a href="#">GO:0009832</a>	plant-type cell wall biogenesis	0.626 %		-3.6148	0.88	0.84
<a href="#">GO:0010400</a>	rhamnogalacturonan I side chain metabolic process	0.009 %		-2.9189	0.80	0.76
<a href="#">GO:0010395</a>	rhamnogalacturonan I metabolic process	0.013 %		-2.9189	0.79	0.59
<a href="#">GO:0010393</a>	galacturonan metabolic process	0.652 %		-1.5726	0.81	0.77
<a href="#">GO:0034637</a>	cellular carbohydrate biosynthetic process	0.915 %		-1.3590	0.66	0.89

<a href="#">GO:0046688</a>	<b>response to copper ion</b>	<b>0.069 %</b>	<b>-4.4610</b>	<b>0.94</b>	<b>0.00</b>
<a href="#">GO:0046274</a>	<b>lignin catabolic process</b>	<b>0.078 %</b>	<b>-4.9173</b>	<b>0.76</b>	<b>0.03</b>
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	1.183 %	-2.3224	0.76	0.80
<a href="#">GO:0009698</a>	<i>phenylpropanoid metabolic process</i>	0.505 %	-2.6122	0.76	0.62
<a href="#">GO:0009699</a>	<i>phenylpropanoid biosynthetic process</i>	0.337 %	-3.0867	0.72	0.91
<a href="#">GO:0010023</a>	<i>proanthocyanidin biosynthetic process</i>	0.035 %	-4.5226	0.75	0.70
<a href="#">GO:0046189</a>	<i>phenol-containing compound biosynthetic process</i>	0.104 %	-3.8940	0.85	0.84
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	0.285 %	-3.6584	0.76	0.81
<a href="#">GO:0009809</a>	<i>lignin biosynthetic process</i>	0.181 %	-4.1798	0.73	0.87
<a href="#">GO:0046271</a>	<i>phenylpropanoid catabolic process</i>	0.078 %	-4.8153	0.76	0.73
<a href="#">GO:0071554</a>	<b>cell wall organization or biogenesis</b>	<b>3.168 %</b>	<b>-2.2119</b>	<b>0.95</b>	<b>0.05</b>
<a href="#">GO:0009056</a>	<b>catabolic process</b>	<b>8.118 %</b>	<b>-1.1077</b>	<b>0.95</b>	<b>0.05</b>
<a href="#">GO:0010076</a>	<b>maintenance of floral meristem identity</b>	<b>0.026 %</b>	<b>-3.3491</b>	<b>0.81</b>	<b>0.07</b>
<a href="#">GO:0019827</a>	<i>stem cell population maintenance</i>	0.216 %	-2.6426	0.82	0.88
<a href="#">GO:0048510</a>	<i>regulation of timing of transition from vegetative to reproductive phase</i>	0.164 %	-1.5548	0.78	0.63
<a href="#">GO:0048506</a>	<i>regulation of timing of meristematic phase transition</i>	0.164 %	-1.5548	0.78	0.95
<a href="#">GO:0010582</a>	<i>floral meristem determinacy</i>	0.052 %	-2.4519	0.78	0.69
<a href="#">GO:0010074</a>	<i>maintenance of meristem identity</i>	0.155 %	-1.9048	0.78	0.97
<a href="#">GO:0010077</a>	<i>maintenance of inflorescence meristem identity</i>	0.039 %	-3.0774	0.80	0.80
<a href="#">GO:0010022</a>	<i>meristem determinacy</i>	0.056 %	-2.4519	0.81	0.72
<a href="#">GO:0046777</a>	<b>protein autophosphorylation</b>	<b>0.604 %</b>	<b>-2.0302</b>	<b>0.89</b>	<b>0.07</b>
<a href="#">GO:0016310</a>	<i>phosphorylation</i>	6.966 %	-1.7112	0.89	0.75
<a href="#">GO:0006468</a>	<i>protein phosphorylation</i>	5.334 %	-1.6489	0.87	0.62
<a href="#">GO:0000060</a>	<b>protein import into nucleus, translocation</b>	<b>0.039 %</b>	<b>-3.6887</b>	<b>0.76</b>	<b>0.07</b>
<a href="#">GO:0070727</a>	<i>cellular macromolecule localization</i>	2.167 %	-1.8328	0.80	0.88
<a href="#">GO:1902593</a>	<i>single-organism nuclear import</i>	0.242 %	-2.0085	0.74	0.99
<a href="#">GO:0070201</a>	<i>regulation of establishment of protein localization</i>	0.026 %	-1.3039	0.78	0.87
<a href="#">GO:0006886</a>	<i>intracellular protein transport</i>	1.675 %	-1.2309	0.78	0.94
<a href="#">GO:0044744</a>	<i>protein targeting to nucleus</i>	0.246 %	-2.0085	0.79	0.98
<a href="#">GO:0032386</a>	<i>regulation of intracellular transport</i>	0.039 %	-1.3282	0.76	0.91
<a href="#">GO:0032388</a>	<i>positive regulation of intracellular transport</i>	0.013 %	-1.3408	0.76	0.88
<a href="#">GO:0034504</a>	<i>protein localization to nucleus</i>	0.268 %	-1.9330	0.81	0.76
<a href="#">GO:1903827</a>	<i>regulation of cellular protein localization</i>	0.065 %	-1.3282	0.74	0.85
<a href="#">GO:1903829</a>	<i>positive regulation of cellular protein localization</i>	0.013 %	-1.3408	0.76	0.77
<a href="#">GO:0008104</a>	<i>protein localization</i>	3.448 %	-1.6194	0.83	0.81
<a href="#">GO:0017038</a>	<i>protein import</i>	0.531 %	-1.2703	0.77	0.51
<a href="#">GO:0006606</a>	<i>protein import into nucleus</i>	0.242 %	-2.0085	0.72	0.94
<a href="#">GO:0006611</a>	<i>protein export from nucleus</i>	0.022 %	-1.3159	0.82	0.66
<a href="#">GO:0034613</a>	<i>cellular protein localization</i>	2.016 %	-2.1702	0.79	0.73
<a href="#">GO:0046822</a>	<i>regulation of nucleocytoplasmic transport</i>	0.013 %	-1.3957	0.75	0.64
<a href="#">GO:0006913</a>	<i>nucleocytoplasmic transport</i>	0.466 %	-2.2259	0.80	0.81
<a href="#">GO:0051170</a>	<i>nuclear import</i>	0.246 %	-1.8842	0.81	0.94
<a href="#">GO:0051169</a>	<i>nuclear transport</i>	0.470 %	-2.2259	0.82	0.56
<a href="#">GO:1901615</a>	<b>organic hydroxy compound metabolic process</b>	<b>1.265 %</b>	<b>-1.3218</b>	<b>0.94</b>	<b>0.08</b>
<a href="#">GO:0009623</a>	<b>response to parasitic fungus</b>	<b>0.009 %</b>	<b>-1.7394</b>	<b>0.95</b>	<b>0.12</b>
<a href="#">GO:0050832</a>	<i>defense response to fungus</i>	2.236 %	-1.2260	0.92	0.55
<a href="#">GO:0009620</a>	<i>response to fungus</i>	2.521 %	-1.2502	0.92	0.76
<a href="#">GO:0010219</a>	<b>regulation of vernalization response</b>	<b>0.022 %</b>	<b>-3.7505</b>	<b>0.87</b>	<b>0.13</b>
<a href="#">GO:0010220</a>	<i>positive regulation of vernalization response</i>	0.013 %	-3.7505	0.85	0.84
<a href="#">GO:0050826</a>	<i>response to freezing</i>	0.086 %	-1.0373	0.92	0.57
<a href="#">GO:0010048</a>	<i>vernalization response</i>	0.065 %	-2.8497	0.92	0.52
<a href="#">GO:0006349</a>	<b>regulation of gene expression by genetic imprinting</b>	<b>0.056 %</b>	<b>-1.0080</b>	<b>0.84</b>	<b>0.15</b>
<a href="#">GO:0018958</a>	<b>phenol-containing compound metabolic process</b>	<b>0.190 %</b>	<b>-3.8940</b>	<b>0.88</b>	<b>0.17</b>
<a href="#">GO:0010116</a>	<i>positive regulation of abscisic acid biosynthetic process</i>	0.017 %	-1.5995	0.69	0.58
<a href="#">GO:0010115</a>	<i>regulation of abscisic acid biosynthetic process</i>	0.030 %	-1.0824	0.69	0.91
<a href="#">GO:0016114</a>	<i>terpenoid biosynthetic process</i>	0.591 %	-1.0470	0.74	0.71
<a href="#">GO:1901617</a>	<i>organic hydroxy compound biosynthetic process</i>	0.824 %	-2.0161	0.88	0.78
<a href="#">GO:0042214</a>	<i>terpene metabolic process</i>	0.065 %	-1.0024	0.81	0.76
<a href="#">GO:0000281</a>	<b>mitotic cytokinesis</b>	<b>0.311 %</b>	<b>-2.1285</b>	<b>0.81</b>	<b>0.17</b>
<a href="#">GO:0000278</a>	<i>mitotic cell cycle</i>	1.152 %	-1.5509	0.81	0.70
<a href="#">GO:0010069</a>	<i>zygote asymmetric cytokinesis in embryo sac</i>	0.013 %	-1.5764	0.77	0.79
<a href="#">GO:0010070</a>	<i>zygote asymmetric cell division</i>	0.017 %	-1.5764	0.85	0.57
<a href="#">GO:0000910</a>	<i>cytokinesis</i>	0.384 %	-1.9320	0.82	0.73
<a href="#">GO:0061640</a>	<i>cytoskeleton-dependent cytokinesis</i>	0.332 %	-1.9641	0.81	0.97
<a href="#">GO:0009833</a>	<i>plant-type primary cell wall biogenesis</i>	0.091 %	-2.1950	0.77	0.89
<a href="#">GO:1903047</a>	<i>mitotic cell cycle process</i>	1.083 %	-1.6622	0.80	0.86
<a href="#">GO:0009226</a>	<b>nucleotide-sugar biosynthetic process</b>	<b>0.173 %</b>	<b>-1.0253</b>	<b>0.87</b>	<b>0.18</b>
<a href="#">GO:0030048</a>	<b>actin filament-based movement</b>	<b>0.086 %</b>	<b>-1.6501</b>	<b>0.86</b>	<b>0.18</b>
<a href="#">GO:0009092</a>	<b>homoserine metabolic process</b>	<b>0.026 %</b>	<b>-2.0730</b>	<b>0.80</b>	<b>0.18</b>
<a href="#">GO:0019279</a>	<i>L-methionine biosynthetic process from L-homoserine via cystathionine</i>	0.004 %	-2.0730	0.79	0.93

<a href="#">GO:0019281</a>	<i>L</i> -methionine biosynthetic process from homoserine via O-succinyl- <i>L</i> -homoserine and cystathionine	0.004 %	-2.0730	0.79	0.64
<a href="#">GO:0071265</a>	<i>L</i> -methionine biosynthetic process	0.052 %	-1.3957	0.76	0.80
<a href="#">GO:0071266</a>	'de novo' <i>L</i> -methionine biosynthetic process	0.009 %	-1.8113	0.78	0.78
<a href="#">GO:0009064</a>	glutamine family amino acid metabolic process	0.367 %	-1.1335	0.76	0.71
<a href="#">GO:0006541</a>	glutamine metabolic process	0.168 %	-1.8011	0.78	0.58
<a href="#">GO:0008037</a>	cell recognition	<b>0.220 %</b>	<b>-1.8254</b>	<b>0.85</b>	<b>0.19</b>
<a href="#">GO:0009719</a>	response to endogenous stimulus	<b>7.359 %</b>	<b>-1.0509</b>	<b>0.93</b>	<b>0.20</b>
<a href="#">GO:0030244</a>	cellulose biosynthetic process	<b>0.216 %</b>	<b>-3.2255</b>	<b>0.68</b>	<b>0.21</b>
<a href="#">GO:0044723</a>	single-organism carbohydrate metabolic process	2.283 %	-1.1495	0.73	0.75
<a href="#">GO:0046352</a>	disaccharide catabolic process	0.035 %	-1.1915	0.74	0.91
<a href="#">GO:0016051</a>	carbohydrate biosynthetic process	1.442 %	-1.0427	0.69	0.71
<a href="#">GO:0051274</a>	beta-glucan biosynthetic process	0.272 %	-2.7589	0.67	0.95
<a href="#">GO:0051273</a>	beta-glucan metabolic process	0.393 %	-2.4994	0.79	0.79
<a href="#">GO:0044262</a>	cellular carbohydrate metabolic process	1.817 %	-1.1600	0.81	0.58
<a href="#">GO:0030243</a>	cellulose metabolic process	0.337 %	-2.8777	0.79	0.93
<a href="#">GO:0000023</a>	maltose metabolic process	0.017 %	-1.2490	0.77	0.65
<a href="#">GO:0000025</a>	maltose catabolic process	0.009 %	-1.8979	0.77	0.51
<a href="#">GO:0009250</a>	glucan biosynthetic process	0.509 %	-2.1629	0.66	0.86
<a href="#">GO:0006073</a>	cellular glucan metabolic process	0.937 %	-1.5221	0.78	0.92
<a href="#">GO:0033692</a>	cellular polysaccharide biosynthetic process	0.729 %	-1.6588	0.65	0.92
<a href="#">GO:0043255</a>	regulation of carbohydrate biosynthetic process	0.117 %	-1.6139	0.70	0.65
<a href="#">GO:0009729</a>	detection of brassinosteroid stimulus	0.009 %	-1.2701	0.94	0.22
<a href="#">GO:0071514</a>	genetic imprinting	0.060 %	-1.0080	0.84	0.23
<a href="#">GO:0051301</a>	cell division	1.528 %	-1.8631	0.83	0.23
<a href="#">GO:0010424</a>	DNA methylation on cytosine within a CG sequence	0.030 %	-1.5544	0.89	0.23
<a href="#">GO:0032776</a>	DNA methylation on cytosine	0.078 %	-1.3159	0.88	0.78
<a href="#">GO:0009910</a>	negative regulation of flower development	<b>0.164 %</b>	<b>-2.9839</b>	<b>0.73</b>	<b>0.27</b>
<a href="#">GO:1902679</a>	negative regulation of RNA biosynthetic process	1.057 %	-1.0654	0.74	0.99
<a href="#">GO:0051241</a>	negative regulation of multicellular organismal process	0.445 %	-1.5653	0.78	0.65
<a href="#">GO:0051253</a>	negative regulation of RNA metabolic process	1.062 %	-1.0600	0.77	0.96
<a href="#">GO:0048581</a>	negative regulation of post-embryonic development	0.354 %	-1.8065	0.73	0.89
<a href="#">GO:0045892</a>	negative regulation of transcription, DNA-templated	0.958 %	-1.0654	0.74	0.64
<a href="#">GO:0048438</a>	floral whorl development	0.669 %	-1.3464	0.78	0.67
<a href="#">GO:2000242</a>	negative regulation of reproductive process	0.220 %	-2.6161	0.85	0.71
<a href="#">GO:1903507</a>	negative regulation of nucleic acid-templated transcription	1.057 %	-1.0654	0.74	0.98
<a href="#">GO:0040034</a>	regulation of development, heterochronic	0.224 %	-1.3641	0.82	0.62
<a href="#">GO:0051093</a>	negative regulation of developmental process	0.492 %	-1.4238	0.79	0.61
<a href="#">GO:0009909</a>	regulation of flower development	0.609 %	-1.1588	0.72	0.82
<a href="#">GO:0031122</a>	cytoplasmic microtubule organization	<b>0.216 %</b>	<b>-1.6187</b>	<b>0.82</b>	<b>0.27</b>
<a href="#">GO:0043622</a>	cortical microtubule organization	0.112 %	-1.6380	0.83	0.81
<a href="#">GO:0030865</a>	cortical cytoskeleton organization	0.129 %	-1.5952	0.92	0.71
<a href="#">GO:0000226</a>	microtubule cytoskeleton organization	0.518 %	-1.0810	0.81	0.83
<a href="#">GO:0019748</a>	secondary metabolic process	<b>1.938 %</b>	<b>-2.9813</b>	<b>0.82</b>	<b>0.27</b>
<a href="#">GO:0090691</a>	formation of plant organ boundary	<b>0.069 %</b>	<b>-2.1851</b>	<b>0.83</b>	<b>0.28</b>
<a href="#">GO:0010199</a>	organ boundary specification between lateral organs and the meristem	0.039 %	-2.3489	0.84	0.96
<a href="#">GO:0048448</a>	stamen morphogenesis	0.047 %	-1.1915	0.80	0.74
<a href="#">GO:0048446</a>	petal morphogenesis	0.026 %	-1.3159	0.81	0.83
<a href="#">GO:0048451</a>	petal formation	0.009 %	-1.5335	0.81	0.58
<a href="#">GO:0048859</a>	formation of anatomical boundary	0.069 %	-1.8447	0.83	0.67
<a href="#">GO:0009268</a>	response to pH	0.030 %	-1.3539	0.93	0.28
<a href="#">GO:0098727</a>	maintenance of cell number	0.216 %	-2.6426	0.89	0.29
<a href="#">GO:0006749</a>	glutathione metabolic process	0.069 %	-1.0080	0.89	0.29
<a href="#">GO:0043693</a>	monoterpene biosynthetic process	0.017 %	-1.7394	0.79	0.32
<a href="#">GO:0043692</a>	monoterpene metabolic process	0.017 %	-1.7394	0.82	0.85
<a href="#">GO:0046246</a>	terpene biosynthetic process	0.043 %	-1.1826	0.78	0.89
<a href="#">GO:0051641</a>	cellular localization	<b>3.008 %</b>	<b>-1.8893</b>	<b>0.87</b>	<b>0.32</b>
<a href="#">GO:0033036</a>	macromolecule localization	4.519 %	-1.1383	0.86	0.56
<a href="#">GO:0015688</a>	iron chelate transport	0.009 %	-1.5995	0.85	0.32
<a href="#">GO:1990267</a>	response to transition metal nanoparticle	2.017 %	-1.9619	0.93	0.33
<a href="#">GO:0019359</a>	nicotinamide nucleotide biosynthetic process	0.043 %	-1.3282	0.75	0.34
<a href="#">GO:0019363</a>	pyridine nucleotide biosynthetic process	0.056 %	-1.2594	0.75	0.91
<a href="#">GO:0019674</a>	NAD metabolic process	0.078 %	-1.3039	0.77	0.71
<a href="#">GO:0072525</a>	pyridine-containing compound biosynthetic process	0.099 %	-1.0893	0.84	0.74
<a href="#">GO:0009435</a>	NAD biosynthetic process	0.030 %	-1.4590	0.76	0.94
<a href="#">GO:1901678</a>	iron coordination entity transport	0.060 %	-1.5995	0.83	0.36
<a href="#">GO:0009888</a>	tissue development	2.326 %	-1.4872	0.87	0.37
<a href="#">GO:0009736</a>	cytokinin-activated signaling pathway	0.328 %	-1.9048	0.78	0.38
<a href="#">GO:0071368</a>	cellular response to cytokinin stimulus	0.337 %	-1.7484	0.88	0.80
<a href="#">GO:0010017</a>	red or far-red light signaling pathway	<b>0.341 %</b>	<b>-1.5725</b>	<b>0.76</b>	<b>0.39</b>
<a href="#">GO:0010161</a>	red light signaling pathway	0.035 %	-1.1256	0.79	0.83
<a href="#">GO:0071482</a>	cellular response to light stimulus	0.561 %	-1.0088	0.86	0.94
<a href="#">GO:0071478</a>	cellular response to radiation	0.583 %	-1.0088	0.86	0.86



<a href="#">GO:0071489</a>	cellular response to red or far red light	0.350 %	-1.5548	0.87	0.91
<a href="#">GO:0071491</a>	cellular response to red light	0.043 %	-1.0963	0.88	0.84
<a href="#">GO:0060151</a>	<b>peroxisome localization</b>	<b>0.009 %</b>	<b>-1.4423</b>	<b>0.86</b>	<b>0.39</b>
<a href="#">GO:0051646</a>	mitochondrion localization	0.017 %	-1.3813	0.86	0.63
<a href="#">GO:0051645</a>	Golgi localization	0.009 %	-1.4423	0.86	0.61
<a href="#">GO:0042538</a>	hyperosmotic salinity response	0.220 %	-1.0166	0.92	0.40
<a href="#">GO:1904951</a>	<b>positive regulation of establishment of protein localization</b>	<b>0.013 %</b>	<b>-1.3408</b>	<b>0.77</b>	<b>0.40</b>
<a href="#">GO:0051222</a>	positive regulation of protein transport	0.013 %	-1.3408	0.77	1.00
<a href="#">GO:0051223</a>	regulation of protein transport	0.026 %	-1.3039	0.77	0.99
<a href="#">GO:0032880</a>	regulation of protein localization	0.108 %	-1.0560	0.78	0.71
<a href="#">GO:0090316</a>	positive regulation of intracellular protein transport	0.013 %	-1.3408	0.74	0.95
<a href="#">GO:0051050</a>	positive regulation of transport	0.043 %	-1.2701	0.80	0.67
<a href="#">GO:0033157</a>	regulation of intracellular protein transport	0.022 %	-1.3282	0.74	0.95
<a href="#">GO:0060341</a>	regulation of cellular localization	0.099 %	-1.3282	0.77	0.61
<a href="#">GO:0046824</a>	positive regulation of nucleocytoplasmic transport	0.004 %	-1.4107	0.76	0.89
<a href="#">GO:0046827</a>	positive regulation of protein export from nucleus	0.004 %	-1.4107	0.74	0.87
<a href="#">GO:0046825</a>	regulation of protein export from nucleus	0.004 %	-1.4107	0.75	0.89
<a href="#">GO:0021700</a>	<b>developmental maturation</b>	<b>0.794 %</b>	<b>-1.3775</b>	<b>0.83</b>	<b>0.42</b>
<a href="#">GO:0048544</a>	<b>recognition of pollen</b>	<b>0.211 %</b>	<b>-1.8317</b>	<b>0.78</b>	<b>0.42</b>
<a href="#">GO:0044703</a>	multi-organism reproductive process	1.610 %	-1.0206	0.93	0.64
<a href="#">GO:0009875</a>	pollen-pistil interaction	0.237 %	-1.8222	0.86	0.74
<a href="#">GO:0090436</a>	<b>leaf pavement cell development</b>	<b>0.017 %</b>	<b>-1.4423</b>	<b>0.78</b>	<b>0.43</b>
<a href="#">GO:0010054</a>	trichoblast differentiation	0.427 %	-1.3144	0.70	0.97
<a href="#">GO:0010053</a>	root epidermal cell differentiation	0.488 %	-1.1057	0.70	0.93
<a href="#">GO:0048469</a>	cell maturation	0.410 %	-1.4322	0.75	0.87
<a href="#">GO:0048765</a>	root hair cell differentiation	0.406 %	-1.4322	0.70	0.61
<a href="#">GO:0048764</a>	trichoblast maturation	0.406 %	-1.4322	0.70	0.99
<a href="#">GO:0030154</a>	cell differentiation	3.332 %	-1.0685	0.72	0.68
<a href="#">GO:0090627</a>	plant epidermal cell differentiation	0.621 %	-1.0735	0.75	0.72
<a href="#">GO:0044712</a>	<b>single-organism catabolic process</b>	<b>2.676 %</b>	<b>-2.8051</b>	<b>0.80</b>	<b>0.43</b>
<a href="#">GO:1901575</a>	organic substance catabolic process	7.402 %	-1.1943	0.90	0.74
<a href="#">GO:0019439</a>	aromatic compound catabolic process	0.898 %	-2.2844	0.87	0.55
<a href="#">GO:1901361</a>	organic cyclic compound catabolic process	0.937 %	-2.1377	0.89	0.56
<a href="#">GO:0050792</a>	regulation of viral process	0.013 %	-1.1034	0.89	0.43
<a href="#">GO:0000160</a>	phosphorelay signal transduction system	1.049 %	-1.1676	0.77	0.43
<a href="#">GO:0044711</a>	single-organism biosynthetic process	7.549 %	-1.1539	0.79	0.45
<a href="#">GO:0010216</a>	<b>maintenance of DNA methylation</b>	<b>0.065 %</b>	<b>-1.0560</b>	<b>0.89</b>	<b>0.46</b>
<a href="#">GO:0006284</a>	base-excision repair	0.155 %	-1.0195	0.82	0.51
<a href="#">GO:0006109</a>	regulation of carbohydrate metabolic process	0.199 %	-1.3879	0.79	0.47
<a href="#">GO:0009913</a>	<b>epidermal cell differentiation</b>	<b>0.069 %</b>	<b>-1.9330</b>	<b>0.76</b>	<b>0.47</b>
<a href="#">GO:0008544</a>	epidermis development	0.069 %	-1.8133	0.87	0.50
<a href="#">GO:0060429</a>	epithelium development	0.082 %	-1.6991	0.86	0.51
<a href="#">GO:0030855</a>	epithelial cell differentiation	0.069 %	-1.9330	0.76	0.98
<a href="#">GO:0009735</a>	<b>response to cytokinin</b>	<b>1.010 %</b>	<b>-1.5532</b>	<b>0.92</b>	<b>0.48</b>
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-1.1898	0.93	0.52
<a href="#">GO:0009725</a>	response to hormone	6.871 %	-1.1117	0.91	0.66
<a href="#">GO:0050691</a>	<b>regulation of defense response to virus by host</b>	<b>0.017 %</b>	<b>-1.7075</b>	<b>0.87</b>	<b>0.50</b>
<a href="#">GO:0050688</a>	regulation of defense response to virus	0.039 %	-1.3282	0.87	0.95
<a href="#">GO:0002697</a>	regulation of immune effector process	0.039 %	-1.3282	0.92	0.72

Biological Process (248) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 9

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000003</a>	reproduction	6.655 %		-1.2588	1.00	0.00
<a href="#">GO:0006200</a>	(obsolete) ATP catabolic process	0.562 %		-3.5745	0.99	0.00
<a href="#">GO:0009414</a>	response to water deprivation	1.390 %		-3.3643	0.74	0.00
<a href="#">GO:0042542</a>	response to hydrogen peroxide	0.268 %		-1.4589	0.80	0.71
<a href="#">GO:1901699</a>	cellular response to nitrogen compound	0.470 %		-1.6157	0.75	0.70
<a href="#">GO:0010167</a>	response to nitrate	0.078 %		-2.2995	0.81	0.56
<a href="#">GO:0000302</a>	response to reactive oxygen species	0.678 %		-1.6151	0.79	0.55
<a href="#">GO:0071241</a>	cellular response to inorganic substance	0.246 %		-1.8287	0.77	0.62
<a href="#">GO:0080026</a>	response to indolebutyric acid	0.022 %		-1.2295	0.81	0.56
<a href="#">GO:0071214</a>	cellular response to abiotic stimulus	0.889 %		-2.0413	0.78	0.52
<a href="#">GO:0070301</a>	cellular response to hydrogen peroxide	0.035 %		-1.4128	0.78	0.71
<a href="#">GO:1902170</a>	cellular response to reactive nitrogen species	0.104 %		-1.0778	0.78	0.80
<a href="#">GO:0071417</a>	cellular response to organonitrogen compound	0.147 %		-1.1304	0.76	0.74
<a href="#">GO:0009415</a>	response to water	1.416 %		-3.3202	0.75	0.74
<a href="#">GO:0009835</a>	fruit ripening	0.043 %		-3.3297	0.81	0.00
<a href="#">GO:2000692</a>	negative regulation of seed maturation	0.017 %		-1.7314	0.76	0.82

GO:0010162	seed dormancy process	0.142 %	-1.1375	0.80	0.91
GO:0010150	leaf senescence	0.462 %	-1.3102	0.80	0.82
GO:0097438	exit from dormancy	0.009 %	-1.7465	0.87	0.70
GO:0071695	anatomical structure maturation	0.043 %	-3.3297	0.85	0.62
GO:1900056	negative regulation of leaf senescence	0.043 %	-1.4809	0.76	0.67
GO:1900055	regulation of leaf senescence	0.104 %	-1.3923	0.77	0.87
GO:2000024	regulation of leaf development	0.224 %	-1.2431	0.76	0.68
GO:2000034	regulation of seed maturation	0.060 %	-1.3666	0.77	0.83
GO:2000033	regulation of seed dormancy process	0.039 %	-1.6505	0.77	0.90
GO:1902039	negative regulation of seed dormancy process	0.009 %	-1.9137	0.77	0.56
GO:0048838	release of seed from dormancy	0.009 %	-1.7465	0.83	0.70
GO:0090693	plant organ senescence	0.462 %	-1.3088	0.80	0.96
GO:0023052	signaling	8.908 %	-1.6266	0.99	0.00
GO:0032501	multicellular organismal process	11.360 %	-1.1035	0.99	0.00
GO:0042430	indole-containing compound metabolic process	0.384 %	-3.0269	0.90	0.00
GO:0050896	response to stimulus	25.943 %	-1.5068	0.99	0.00
GO:0051179	localization	12.352 %	-1.3139	0.99	0.00
GO:0071840	cellular component organization or biogenesis	14.454 %	-1.3538	0.99	0.00
GO:0006914	autophagy	0.268 %	-1.1596	0.96	0.04
GO:0010166	wax metabolic process	0.082 %	-1.0048	0.97	0.04
GO:0042545	cell wall modification	0.561 %	-2.3903	0.92	0.04
GO:0052386	cell wall thickening	0.134 %	-1.9557	0.92	0.61
GO:0071555	cell wall organization	2.430 %	-1.7653	0.91	0.80
GO:0052482	defense response by cell wall thickening	0.069 %	-2.1405	0.79	0.74
GO:0071554	cell wall organization or biogenesis	3.168 %	-1.1166	0.95	0.05
GO:1900673	olefin metabolic process	0.125 %	-1.2295	0.97	0.06
GO:0010541	acropetal auxin transport	0.013 %	-3.0587	0.81	0.06
GO:0052314	phytoalexin metabolic process	0.052 %	-1.2295	0.82	0.79
GO:0052315	phytoalexin biosynthetic process	0.052 %	-1.2295	0.79	1.00
GO:0052317	camalexin metabolic process	0.047 %	-1.2573	0.77	0.99
GO:0010120	camalexin biosynthetic process	0.047 %	-1.2573	0.76	0.71
GO:0080024	indolebutyric acid metabolic process	0.022 %	-1.4809	0.77	0.51
GO:0009700	indole phytoalexin biosynthetic process	0.052 %	-1.2295	0.77	0.99
GO:0046217	indole phytoalexin metabolic process	0.052 %	-1.2295	0.79	1.00
GO:0009403	toxin biosynthetic process	0.052 %	-1.2295	0.80	0.79
GO:0042436	indole-containing compound catabolic process	0.039 %	-1.3423	0.88	0.68
GO:0043473	pigmentation	0.022 %	-1.1951	0.93	0.06
GO:0009773	photosynthetic electron transport in photosystem I	0.065 %	-1.5063	0.87	0.07
GO:0007154	cell communication	9.698 %	-2.0741	0.95	0.08
GO:0005975	carbohydrate metabolic process	4.670 %	-1.6885	0.96	0.08
GO:0006790	sulfur compound metabolic process	1.420 %	-1.7178	0.94	0.08
GO:0044272	sulfur compound biosynthetic process	0.699 %	-1.5597	0.87	0.09
GO:0019758	glucosinolate biosynthetic process	0.194 %	-1.0341	0.75	1.00
GO:0019761	glucosinolate biosynthetic process	0.194 %	-1.0341	0.75	0.81
GO:0044273	sulfur compound catabolic process	0.173 %	-1.2206	0.90	0.74
GO:0016145	S-glycoside catabolic process	0.104 %	-1.3482	0.82	0.71
GO:0016143	S-glycoside metabolic process	0.514 %	-1.1992	0.81	0.82
GO:1901658	glycosyl compound catabolic process	0.211 %	-1.0903	0.84	0.87
GO:0042344	indole glucosinolate catabolic process	0.017 %	-1.3482	0.78	0.82
GO:0042343	indole glucosinolate metabolic process	0.125 %	-1.1992	0.76	0.77
GO:0042435	indole-containing compound biosynthetic process	0.237 %	-1.0510	0.85	0.87
GO:0010143	cutin biosynthetic process	0.091 %	-1.1910	0.95	0.18
GO:0009693	ethylene biosynthetic process	0.125 %	-1.2340	0.90	0.20
GO:1900674	olefin biosynthetic process	0.125 %	-1.2295	0.92	1.00
GO:0009692	ethylene metabolic process	0.125 %	-1.2340	0.92	1.00
GO:0043450	alkene biosynthetic process	0.125 %	-1.2340	0.90	1.00
GO:0043449	cellular alkene metabolic process	0.125 %	-1.2340	0.92	1.00
GO:0000160	phosphorelay signal transduction system	1.049 %	-1.7897	0.70	0.23
GO:0019748	secondary metabolic process	1.938 %	-1.4543	0.85	0.24
GO:0048583	regulation of response to stimulus	2.521 %	-1.3967	0.80	0.26
GO:0000045	autophagosome assembly	0.065 %	-2.1499	0.93	0.28
GO:1905037	autophagosome organization	0.065 %	-2.1499	0.92	0.98
GO:0016236	macroautophagy	0.073 %	-2.1499	0.95	0.81
GO:0007568	aging	0.544 %	-2.9102	0.85	0.29
GO:0006820	anion transport	1.524 %	-2.0681	0.84	0.29
GO:0055085	transmembrane transport	5.175 %	-1.1455	0.85	0.74
GO:0051234	establishment of localization	11.817 %	-1.0968	0.84	0.86
GO:0006810	transport	11.649 %	-1.1061	0.84	0.71
GO:0006811	ion transport	4.174 %	-1.1107	0.85	0.52
GO:0006857	oligopeptide transport	0.155 %	-1.0313	0.87	0.66
GO:0042886	amide transport	0.220 %	-1.0259	0.88	0.64
GO:0015833	peptide transport	0.177 %	-1.0313	0.87	0.95

<a href="#">GO:0015718</a>	monocarboxylic acid transport	0.142 %	-1.0935	0.79	0.62
<a href="#">GO:0015706</a>	nitrate transport	0.108 %	-1.5622	0.86	0.55
<a href="#">GO:1901140</a>	<b>p-coumaryl alcohol transport</b>	<b>0.004 %</b>	<b>-1.5063</b>	<b>0.85</b>	<b>0.29</b>
<a href="#">GO:0080168</a>	abscisic acid transport	0.017 %	-1.2478	0.80	0.75
<a href="#">GO:0022611</a>	dormancy process	0.142 %	-1.1375	0.91	0.31
<a href="#">GO:0010084</a>	<b>specification of animal organ axis polarity</b>	<b>0.030 %</b>	<b>-2.1499</b>	<b>0.84</b>	<b>0.31</b>
<a href="#">GO:0065001</a>	specification of axis polarity	0.112 %	-1.2250	0.85	0.84
<a href="#">GO:0009887</a>	animal organ morphogenesis	0.004 %	-1.0871	0.86	1.11
<a href="#">GO:0042218</a>	<b>1-aminocyclopropane-1-carboxylate biosynthetic process</b>	<b>0.035 %</b>	<b>-2.0776</b>	<b>0.82</b>	<b>0.33</b>
<a href="#">GO:0008652</a>	cellular amino acid biosynthetic process	0.915 %	-1.4965	0.77	0.62
<a href="#">GO:0018871</a>	1-aminocyclopropane-1-carboxylate metabolic process	0.035 %	-1.8129	0.83	0.53
<a href="#">GO:0006520</a>	cellular amino acid metabolic process	1.869 %	-1.3310	0.79	0.69
<a href="#">GO:0006561</a>	proline biosynthetic process	0.043 %	-1.3138	0.81	0.74
<a href="#">GO:0006560</a>	proline metabolic process	0.065 %	-1.2820	0.83	0.65
<a href="#">GO:0009312</a>	<b>oligosaccharide biosynthetic process</b>	<b>0.255 %</b>	<b>-2.0598</b>	<b>0.82</b>	<b>0.34</b>
<a href="#">GO:0045490</a>	pectin catabolic process	0.423 %	-1.0074	0.93	0.51
<a href="#">GO:0006012</a>	galactose metabolic process	0.121 %	-1.3729	0.84	0.58
<a href="#">GO:0009311</a>	oligosaccharide metabolic process	0.466 %	-1.4417	0.84	0.65
<a href="#">GO:0010325</a>	raffinose family oligosaccharide biosynthetic process	0.004 %	-1.6758	0.86	0.67
<a href="#">GO:0005991</a>	trehalose metabolic process	0.104 %	-1.2385	0.84	0.85
<a href="#">GO:0005992</a>	trehalose biosynthetic process	0.095 %	-1.2573	0.82	0.83
<a href="#">GO:0052545</a>	<b>callose localization</b>	<b>0.155 %</b>	<b>-1.9391</b>	<b>0.87</b>	<b>0.34</b>
<a href="#">GO:0052542</a>	defense response by callose deposition	0.091 %	-2.0260	0.77	0.95
<a href="#">GO:0052543</a>	callose deposition in cell wall	0.117 %	-2.0522	0.80	0.96
<a href="#">GO:0052544</a>	defense response by callose deposition in cell wall	0.069 %	-2.1405	0.69	0.93
<a href="#">GO:0051716</a>	cellular response to stimulus	12.637 %	-3.4693	0.80	0.35
<a href="#">GO:0010451</a>	floral meristem growth	0.013 %	-2.0776	0.84	0.35
<a href="#">GO:0010432</a>	bract development	0.017 %	-2.0456	0.85	0.36
<a href="#">GO:0021700</a>	developmental maturation	0.794 %	-1.6675	0.84	0.37
<a href="#">GO:0042493</a>	response to drug	0.367 %	-1.5151	0.83	0.37
<a href="#">GO:0019432</a>	<b>triglyceride biosynthetic process</b>	<b>0.104 %</b>	<b>-1.5524</b>	<b>0.81</b>	<b>0.37</b>
<a href="#">GO:0045017</a>	glycerolipid biosynthetic process	0.445 %	-1.0840	0.80	0.79
<a href="#">GO:0046463</a>	acylglycerol biosynthetic process	0.117 %	-1.5151	0.81	0.99
<a href="#">GO:0046460</a>	neutral lipid biosynthetic process	0.117 %	-1.5151	0.81	0.96
<a href="#">GO:0006639</a>	acylglycerol metabolic process	0.147 %	-1.2770	0.83	0.99
<a href="#">GO:0006641</a>	triglyceride metabolic process	0.129 %	-1.3729	0.83	0.97
<a href="#">GO:0010117</a>	<b>photoprotection</b>	<b>0.026 %</b>	<b>-1.7465</b>	<b>0.86</b>	<b>0.37</b>
<a href="#">GO:0009642</a>	response to light intensity	0.587 %	-1.1272	0.83	0.68
<a href="#">GO:0009644</a>	response to high light intensity	0.324 %	-1.4316	0.83	0.64
<a href="#">GO:0010018</a>	far-red light signaling pathway	0.065 %	-1.6041	0.71	0.82
<a href="#">GO:0071462</a>	cellular response to water stimulus	0.129 %	-1.0259	0.73	0.79
<a href="#">GO:0071472</a>	cellular response to salt stress	0.147 %	-1.0313	0.78	0.80
<a href="#">GO:0071482</a>	cellular response to light stimulus	0.561 %	-1.6157	0.76	0.52
<a href="#">GO:0071484</a>	cellular response to light intensity	0.043 %	-1.5723	0.80	0.79
<a href="#">GO:0071478</a>	cellular response to radiation	0.583 %	-1.6157	0.76	0.91
<a href="#">GO:0071490</a>	cellular response to far red light	0.073 %	-1.5622	0.79	0.83
<a href="#">GO:0009718</a>	anthocyanin-containing compound biosynthetic process	0.121 %	-1.0100	0.85	0.38
<a href="#">GO:0006855</a>	<b>drug transmembrane transport</b>	<b>0.358 %</b>	<b>-1.5622</b>	<b>0.66</b>	<b>0.39</b>
<a href="#">GO:0015893</a>	drug transport	0.367 %	-1.5622	0.67	0.99
<a href="#">GO:0010817</a>	regulation of hormone levels	1.109 %	-1.8498	0.91	0.39
<a href="#">GO:0045229</a>	<b>external encapsulating structure organization</b>	<b>2.577 %</b>	<b>-1.5212</b>	<b>0.92</b>	<b>0.40</b>
<a href="#">GO:0016043</a>	cellular component organization	13.263 %	-1.4714	0.91	0.58
<a href="#">GO:0043481</a>	<b>anthocyanin accumulation in tissues in response to UV light</b>	<b>0.017 %</b>	<b>-1.2162</b>	<b>0.75</b>	<b>0.41</b>
<a href="#">GO:0043478</a>	pigment accumulation in response to UV light	0.017 %	-1.2162	0.80	0.97
<a href="#">GO:0043480</a>	pigment accumulation in tissues	0.017 %	-1.2162	0.78	0.97
<a href="#">GO:0043479</a>	pigment accumulation in tissues in response to UV light	0.017 %	-1.2162	0.75	1.00
<a href="#">GO:0043476</a>	pigment accumulation	0.022 %	-1.2162	0.83	0.99
<a href="#">GO:1901698</a>	response to nitrogen compound	1.174 %	-1.2862	0.81	0.42
<a href="#">GO:0051262</a>	protein tetramerization	0.056 %	-1.4493	0.94	0.42
<a href="#">GO:0009658</a>	<b>chloroplast organization</b>	<b>0.803 %</b>	<b>-1.3675</b>	<b>0.92</b>	<b>0.42</b>
<a href="#">GO:0009657</a>	plastid organization	1.032 %	-1.0658	0.92	0.58
<a href="#">GO:0070925</a>	organelle assembly	1.385 %	-1.2525	0.92	0.56
<a href="#">GO:0009719</a>	response to endogenous stimulus	7.359 %	-2.6075	0.84	0.43
<a href="#">GO:0015692</a>	lead ion transport	0.004 %	-1.2872	0.89	0.43
<a href="#">GO:0009628</a>	response to abiotic stimulus	7.946 %	-1.4634	0.83	0.43
<a href="#">GO:0018874</a>	<b>benzoate metabolic process</b>	<b>0.009 %</b>	<b>-1.6041</b>	<b>0.85</b>	<b>0.43</b>
<a href="#">GO:0046482</a>	para-aminobenzoic acid metabolic process	0.017 %	-1.4343	0.84	0.70
<a href="#">GO:0009696</a>	salicylic acid metabolic process	0.121 %	-1.0840	0.83	0.82
<a href="#">GO:0015850</a>	organic hydroxy compound transport	0.086 %	-1.4493	0.82	0.44
<a href="#">GO:0031668</a>	cellular response to extracellular stimulus	0.691 %	-1.0108	0.79	0.44
<a href="#">GO:0042631</a>	cellular response to water deprivation	0.129 %	-1.0259	0.72	0.84
<a href="#">GO:0042538</a>	<b>hyperosmotic salinity response</b>	<b>0.220 %</b>	<b>-1.6244</b>	<b>0.84</b>	<b>0.45</b>
<a href="#">GO:0071475</a>	cellular hyperosmotic salinity response	0.009 %	-1.6152	0.81	0.77

<a href="#">GO:0071474</a>	cellular hyperosmotic response	0.013 %	-1.6152	0.81	0.79
<a href="#">GO:0006972</a>	hyperosmotic response	0.263 %	-1.5038	0.84	0.60
<a href="#">GO:0071705</a>	<b>nitrogen compound transport</b>	<b>1.515 %</b>	<b>-1.3645</b>	<b>0.86</b>	<b>0.45</b>
<a href="#">GO:0048367</a>	<b>shoot system development</b>	<b>3.599 %</b>	<b>-1.6440</b>	<b>0.78</b>	<b>0.45</b>
<a href="#">GO:0044707</a>	single-multicellular organism process	10.699 %	-1.4020	0.80	0.79
<a href="#">GO:0044702</a>	single organism reproductive process	5.939 %	-1.6483	0.85	0.86
<a href="#">GO:0099402</a>	plant organ development	3.763 %	-1.3336	0.78	0.74
<a href="#">GO:0003006</a>	developmental process involved in reproduction	5.611 %	-1.1035	0.85	0.89
<a href="#">GO:0010154</a>	fruit development	2.443 %	-1.1833	0.77	0.86
<a href="#">GO:0048608</a>	reproductive structure development	4.674 %	-1.2404	0.76	0.77
<a href="#">GO:0007275</a>	multicellular organism development	10.423 %	-1.1649	0.78	0.86
<a href="#">GO:0048827</a>	phyllome development	1.921 %	-1.2816	0.79	0.67
<a href="#">GO:0048366</a>	leaf development	1.368 %	-1.1074	0.79	0.78
<a href="#">GO:0022414</a>	reproductive process	6.629 %	-1.2687	0.93	0.91
<a href="#">GO:0061458</a>	reproductive system development	4.674 %	-1.2404	0.78	0.80
<a href="#">GO:0048731</a>	system development	7.225 %	-2.0846	0.78	0.68
<a href="#">GO:0051241</a>	<b>negative regulation of multicellular organismal process</b>	<b>0.445 %</b>	<b>-1.4537</b>	<b>0.76</b>	<b>0.46</b>
<a href="#">GO:0080050</a>	regulation of seed development	0.129 %	-1.1634	0.77	0.64
<a href="#">GO:0048585</a>	negative regulation of response to stimulus	0.699 %	-1.1681	0.77	0.62
<a href="#">GO:0010030</a>	positive regulation of seed germination	0.069 %	-1.2976	0.80	0.61
<a href="#">GO:0048831</a>	regulation of shoot system development	0.850 %	-1.0197	0.74	0.76
<a href="#">GO:0051093</a>	negative regulation of developmental process	0.492 %	-1.3524	0.80	0.59
<a href="#">GO:0044550</a>	<b>secondary metabolite biosynthetic process</b>	<b>1.183 %</b>	<b>-1.8751</b>	<b>0.78</b>	<b>0.46</b>
<a href="#">GO:1901141</a>	regulation of lignin biosynthetic process	0.030 %	-1.3857	0.77	0.62
<a href="#">GO:2000762</a>	regulation of phenylpropanoid metabolic process	0.069 %	-1.2034	0.78	0.83
<a href="#">GO:1900376</a>	regulation of secondary metabolite biosynthetic process	0.078 %	-1.1200	0.78	0.88
<a href="#">GO:0009404</a>	toxin metabolic process	0.250 %	-1.1065	0.81	0.74
<a href="#">GO:0033037</a>	<b>polysaccharide localization</b>	<b>0.168 %</b>	<b>-1.9391</b>	<b>0.88</b>	<b>0.46</b>
<a href="#">GO:0070727</a>	cellular macromolecule localization	2.167 %	-1.2096	0.85	0.58
<a href="#">GO:0072666</a>	establishment of protein localization to vacuole	0.155 %	-1.1711	0.87	1.00
<a href="#">GO:0072665</a>	protein localization to vacuole	0.155 %	-1.1711	0.87	0.68
<a href="#">GO:0006623</a>	protein targeting to vacuole	0.155 %	-1.1711	0.86	0.66
<a href="#">GO:0010646</a>	<b>regulation of cell communication</b>	<b>1.139 %</b>	<b>-1.7653</b>	<b>0.86</b>	<b>0.47</b>
<a href="#">GO:0010360</a>	<b>negative regulation of anion channel activity</b>	<b>0.017 %</b>	<b>-1.6267</b>	<b>0.78</b>	<b>0.47</b>
<a href="#">GO:0032412</a>	regulation of ion transmembrane transporter activity	0.060 %	-1.0022	0.79	0.98
<a href="#">GO:0032409</a>	regulation of transporter activity	0.060 %	-1.0022	0.81	0.65
<a href="#">GO:0032410</a>	negative regulation of transporter activity	0.017 %	-1.6267	0.79	0.95
<a href="#">GO:0032413</a>	negative regulation of ion transmembrane transporter activity	0.017 %	-1.6267	0.78	1.00
<a href="#">GO:0044070</a>	regulation of anion transport	0.164 %	-1.0686	0.78	0.89
<a href="#">GO:1903792</a>	negative regulation of anion transport	0.017 %	-1.6267	0.78	0.95
<a href="#">GO:0034763</a>	negative regulation of transmembrane transport	0.017 %	-1.6267	0.79	0.95
<a href="#">GO:0010359</a>	regulation of anion channel activity	0.047 %	-1.0717	0.79	0.91
<a href="#">GO:0034766</a>	negative regulation of ion transmembrane transport	0.017 %	-1.6267	0.78	1.00
<a href="#">GO:1903960</a>	negative regulation of anion transmembrane transport	0.017 %	-1.6267	0.78	1.00
<a href="#">GO:1903959</a>	regulation of anion transmembrane transport	0.129 %	-1.0717	0.78	0.84
<a href="#">GO:0022898</a>	regulation of transmembrane transporter activity	0.060 %	-1.0022	0.80	1.00
<a href="#">GO:0051051</a>	negative regulation of transport	0.026 %	-1.3857	0.81	0.60
<a href="#">GO:0043271</a>	negative regulation of ion transport	0.026 %	-1.3857	0.78	0.98
<a href="#">GO:0042221</a>	<b>response to chemical</b>	<b>12.434 %</b>	<b>-1.5836</b>	<b>0.82</b>	<b>0.48</b>
<a href="#">GO:0032870</a>	<b>cellular response to hormone stimulus</b>	<b>3.871 %</b>	<b>-3.0750</b>	<b>0.69</b>	<b>0.49</b>
<a href="#">GO:0071229</a>	cellular response to acid chemical	2.158 %	-1.0478	0.72	0.79
<a href="#">GO:0044700</a>	single organism signaling	8.899 %	-1.6293	0.85	0.91
<a href="#">GO:1901701</a>	cellular response to oxygen-containing compound	2.788 %	-1.2267	0.71	0.82
<a href="#">GO:1901700</a>	response to oxygen-containing compound	6.504 %	-1.1922	0.77	0.70
<a href="#">GO:0097305</a>	response to alcohol	2.469 %	-1.1286	0.77	0.65
<a href="#">GO:0097306</a>	cellular response to alcohol	1.170 %	-1.0447	0.72	0.88
<a href="#">GO:0060918</a>	auxin transport	0.406 %	-1.4946	0.76	0.97
<a href="#">GO:0071215</a>	cellular response to abscisic acid stimulus	1.170 %	-1.0447	0.71	0.88
<a href="#">GO:0071365</a>	cellular response to auxin stimulus	0.932 %	-2.2091	0.73	0.78
<a href="#">GO:0071369</a>	cellular response to ethylene stimulus	0.906 %	-1.5966	0.73	0.91
<a href="#">GO:0070887</a>	cellular response to chemical stimulus	5.287 %	-3.5244	0.73	0.59
<a href="#">GO:0010540</a>	basipetal auxin transport	0.078 %	-2.1032	0.79	0.77
<a href="#">GO:0071310</a>	cellular response to organic substance	4.601 %	-2.5826	0.70	0.88
<a href="#">GO:0007165</a>	signal transduction	8.731 %	-1.6473	0.63	0.67
<a href="#">GO:0010033</a>	response to organic substance	8.580 %	-2.1361	0.76	0.68
<a href="#">GO:0010035</a>	response to inorganic substance	3.699 %	-2.5820	0.78	0.56
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-1.4854	0.78	0.62
<a href="#">GO:0009755</a>	hormone-mediated signaling pathway	3.617 %	-1.9920	0.59	0.94
<a href="#">GO:0009737</a>	response to abscisic acid	2.443 %	-1.1357	0.75	0.72

<a href="#">GO:0009734</a>	<i>auxin-activated signaling pathway</i>	0.868 %	-1.4069	0.64	0.85
<a href="#">GO:0009733</a>	<i>response to auxin</i>	1.709 %	-2.0415	0.78	0.68
<a href="#">GO:0009735</a>	<i>response to cytokinin</i>	1.010 %	-1.4451	0.79	0.64
<a href="#">GO:0009725</a>	<i>response to hormone</i>	6.871 %	-2.9143	0.74	0.82
<a href="#">GO:0010928</a>	<i>regulation of auxin mediated signaling pathway</i>	0.173 %	-2.8847	0.67	0.64
<a href="#">GO:0010315</a>	<i>auxin efflux</i>	0.086 %	-3.1119	0.60	0.70
<a href="#">GO:0009873</a>	<i>ethylene-activated signaling pathway</i>	0.811 %	-1.8345	0.64	0.77
<a href="#">GO:0009966</a>	<i>regulation of signal transduction</i>	1.109 %	-1.7857	0.68	0.82
<a href="#">GO:0009926</a>	<i>auxin polar transport</i>	0.337 %	-1.5637	0.77	0.86
<a href="#">GO:0009937</a>	<i>regulation of gibberellic acid mediated signaling pathway</i>	0.073 %	-1.1750	0.68	0.73
<a href="#">GO:0009939</a>	<i>positive regulation of gibberellic acid mediated signaling pathway</i>	0.026 %	-1.7027	0.70	0.54
<a href="#">GO:0009914</a>	<i>hormone transport</i>	0.436 %	-1.4801	0.77	0.71
<a href="#">GO:0071495</a>	<i>cellular response to endogenous stimulus</i>	3.988 %	-3.0102	0.80	0.75
<a href="#">GO:0023051</a>	<b>regulation of signaling</b>	<b>1.126 %</b>	<b>-1.7720</b>	<b>0.89</b>	<b>0.49</b>
<a href="#">GO:0071249</a>	<b>cellular response to nitrate</b>	<b>0.017 %</b>	<b>-1.5932</b>	<b>0.79</b>	<b>0.49</b>
<a href="#">GO:0071366</a>	<i>cellular response to indolebutyric acid stimulus</i>	0.009 %	-1.4493	0.79	0.59
<a href="#">GO:0006638</a>	<b>neutral lipid metabolic process</b>	<b>0.147 %</b>	<b>-1.2770</b>	<b>0.84</b>	<b>0.50</b>
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-1.4659</b>	<b>0.82</b>	<b>0.50</b>

## Biological Process (98) Tag Clouds

## Scatterplot &amp; Table

## GROUP 10

<a href="#">Hide/show dispensable GO terms</a>		<a href="#">Export results to text table (CSV)</a>			<a href="#">Make R script for plotting</a>	
term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006829</a>	zinc II ion transport	0.129 %		-2.2030	0.93	0.00
<a href="#">GO:0006814</a>	sodium ion transport	0.121 %		-1.3866	0.93	0.61
<a href="#">GO:0006812</a>	cation transport	2.542 %		-1.1033	0.92	0.78
<a href="#">GO:0030001</a>	metal ion transport	1.588 %		-1.4692	0.92	0.66
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %		-1.5123	0.87	0.00
<a href="#">GO:0009741</a>	response to brassinosteroid	0.410 %		-1.0234	0.87	0.63
<a href="#">GO:0009734</a>	auxin-activated signaling pathway	0.868 %		-1.0368	0.67	0.53
<a href="#">GO:0009735</a>	response to cytokinin	1.010 %		-1.0726	0.88	0.52
<a href="#">GO:0046885</a>	regulation of hormone biosynthetic process	0.065 %		-3.1779	0.65	0.00
<a href="#">GO:0010422</a>	regulation of brassinosteroid biosynthetic process	0.013 %		-1.8070	0.57	0.89
<a href="#">GO:0090354</a>	regulation of auxin metabolic process	0.056 %		-1.4686	0.67	0.97
<a href="#">GO:0090030</a>	regulation of steroid hormone biosynthetic process	0.013 %		-1.8070	0.57	1.00
<a href="#">GO:0032350</a>	regulation of hormone metabolic process	0.073 %		-2.9285	0.70	0.68
<a href="#">GO:0050810</a>	regulation of steroid biosynthetic process	0.013 %		-1.8070	0.66	1.00
<a href="#">GO:0010600</a>	regulation of auxin biosynthetic process	0.052 %		-1.6623	0.65	0.97
<a href="#">GO:0016129</a>	phytosteroid biosynthetic process	0.173 %		-1.4686	0.69	0.97
<a href="#">GO:0016131</a>	brassinosteroid metabolic process	0.177 %		-1.1443	0.58	0.98
<a href="#">GO:0016132</a>	brassinosteroid biosynthetic process	0.155 %		-1.4686	0.56	0.84
<a href="#">GO:0016128</a>	phytosteroid metabolic process	0.194 %		-1.1443	0.73	0.85

<a href="#">GO:0009851</a>	<i>auxin biosynthetic process</i>	0.250 %	-1.1270	0.67	0.88
<a href="#">GO:0042445</a>	<i>hormone metabolic process</i>	0.695 %	-1.2955	0.69	0.87
<a href="#">GO:0042446</a>	<i>hormone biosynthetic process</i>	0.514 %	-1.9846	0.67	0.79
<a href="#">GO:0009834</a>	<b>plant-type secondary cell wall biogenesis</b>	<b>0.263 %</b>	<b>-1.4020</b>	<b>0.91</b>	<b>0.03</b>
<a href="#">GO:2000652</a>	<i>regulation of secondary cell wall biogenesis</i>	0.095 %	-1.1327	0.79	0.78
<a href="#">GO:1903338</a>	<i>regulation of cell wall organization or biogenesis</i>	0.138 %	-1.1050	0.79	0.53
<a href="#">GO:0071669</a>	<i>plant-type cell wall organization or biogenesis</i>	1.152 %	-1.1771	0.91	0.64
<a href="#">GO:0071554</a>	<b>cell wall organization or biogenesis</b>	<b>3.168 %</b>	<b>-1.1106</b>	<b>0.94</b>	<b>0.05</b>
<a href="#">GO:1901868</a>	<b>ecgonine methyl ester catabolic process</b>	<b>0.076 %</b>	<b>-2.9800</b>	<b>0.66</b>	<b>0.06</b>
<a href="#">GO:0009821</a>	<i>alkaloid biosynthetic process</i>	0.801 %	-1.4315	0.58	2.10
<a href="#">GO:0009822</a>	<i>alkaloid catabolic process</i>	0.080 %	-2.9800	0.67	1.31
<a href="#">GO:0046448</a>	<i>tropane alkaloid metabolic process</i>	1.686 %	-2.2819	0.58	1.67
<a href="#">GO:1901867</a>	<i>ecgonine methyl ester metabolic process</i>	0.033 %	-2.9800	0.68	1.23
<a href="#">GO:1901869</a>	<i>ecgonine methyl ester biosynthetic process</i>	0.009 %	-2.9800	0.68	1.13
<a href="#">GO:1901870</a>	<i>ecgonone methyl ester metabolic process</i>	0.057 %	-2.9800	0.59	1.28
<a href="#">GO:1901871</a>	<i>ecgonone methyl ester catabolic process</i>	0.078 %	-2.9800	0.58	1.30
<a href="#">GO:1901872</a>	<i>ecgonone methyl ester biosynthetic process</i>	0.073 %	-2.9800	0.55	1.30
<a href="#">GO:0009710</a>	<i>tropane alkaloid biosynthetic process</i>	0.503 %	-2.2819	0.59	2.00
<a href="#">GO:0051100</a>	<b>negative regulation of binding</b>	<b>0.004 %</b>	<b>-1.9820</b>	<b>0.85</b>	<b>0.10</b>
<a href="#">GO:0043392</a>	<i>negative regulation of DNA binding</i>	0.004 %	-1.9820	0.85	0.84
<a href="#">GO:0051101</a>	<i>regulation of DNA binding</i>	0.017 %	-1.8368	0.84	0.84
<a href="#">GO:2000123</a>	<b>positive regulation of stomatal complex development</b>	<b>0.013 %</b>	<b>-2.0275</b>	<b>0.70</b>	<b>0.13</b>
<a href="#">GO:2000038</a>	<i>regulation of stomatal complex development</i>	0.039 %	-1.1686	0.69	0.73
<a href="#">GO:0015074</a>	<b>DNA integration</b>	<b>0.017 %</b>	<b>-1.3119</b>	<b>0.89</b>	<b>0.14</b>
<a href="#">GO:0009268</a>	<b>response to pH</b>	<b>0.030 %</b>	<b>-1.4818</b>	<b>0.92</b>	<b>0.15</b>
<a href="#">GO:0019218</a>	<b>regulation of steroid metabolic process</b>	<b>0.013 %</b>	<b>-1.8070</b>	<b>0.69</b>	<b>0.20</b>
<a href="#">GO:0010115</a>	<i>regulation of abscisic acid biosynthetic process</i>	0.030 %	-1.2080	0.61	0.70
<a href="#">GO:0009688</a>	<i>abscisic acid biosynthetic process</i>	0.091 %	-1.0061	0.70	0.93
<a href="#">GO:0046890</a>	<i>regulation of lipid biosynthetic process</i>	0.194 %	-1.0596	0.64	0.83
<a href="#">GO:0010047</a>	<b>fruit dehiscence</b>	<b>0.039 %</b>	<b>-1.1159</b>	<b>0.85</b>	<b>0.23</b>
<a href="#">GO:0009901</a>	<i>anther dehiscence</i>	0.069 %	-1.0791	0.78	0.92
<a href="#">GO:0009820</a>	<b>alkaloid metabolic process</b>	<b>0.009 %</b>	<b>-1.3461</b>	<b>0.88</b>	<b>0.27</b>
<a href="#">GO:0050793</a>	<b>regulation of developmental process</b>	<b>2.577 %</b>	<b>-1.7491</b>	<b>0.70</b>	<b>0.29</b>
<a href="#">GO:0010380</a>	<b>regulation of chlorophyll biosynthetic process</b>	<b>0.073 %</b>	<b>-1.0644</b>	<b>0.66</b>	<b>0.31</b>
<a href="#">GO:1901463</a>	<i>regulation of tetrapyrrole biosynthetic process</i>	0.078 %	-1.0548	0.70	0.96
<a href="#">GO:0008643</a>	<b>carbohydrate transport</b>	<b>0.630 %</b>	<b>-1.8736</b>	<b>0.86</b>	<b>0.32</b>
<a href="#">GO:0048829</a>	<b>root cap development</b>	<b>0.065 %</b>	<b>-1.0997</b>	<b>0.81</b>	<b>0.33</b>
<a href="#">GO:0090691</a>	<b>formation of plant organ boundary</b>	<b>0.069 %</b>	<b>-1.0692</b>	<b>0.82</b>	<b>0.33</b>
<a href="#">GO:0010199</a>	<i>organ boundary specification between lateral organs and the meristem</i>	0.039 %	-1.1503	0.82	0.96
<a href="#">GO:0036293</a>	<b>response to decreased oxygen levels</b>	<b>0.281 %</b>	<b>-1.4259</b>	<b>0.90</b>	<b>0.33</b>
<a href="#">GO:0034059</a>	<i>response to anoxia</i>	0.030 %	-1.4315	0.91	0.84
<a href="#">GO:0042182</a>	<b>ketone catabolic process</b>	<b>0.043 %</b>	<b>-1.6623</b>	<b>0.77</b>	<b>0.36</b>
<a href="#">GO:0042181</a>	<i>ketone biosynthetic process</i>	0.134 %	-1.3182	0.72	0.74
<a href="#">GO:0042180</a>	<b>cellular ketone metabolic process</b>	<b>0.470 %</b>	<b>-1.3276</b>	<b>0.78</b>	<b>0.37</b>
<a href="#">GO:0006560</a>	<b>proline metabolic process</b>	<b>0.065 %</b>	<b>-1.0791</b>	<b>0.75</b>	<b>0.38</b>
<a href="#">GO:0006561</a>	<i>proline biosynthetic process</i>	0.043 %	-1.1104	0.72	0.74
<a href="#">GO:0031326</a>	<b>regulation of cellular biosynthetic process</b>	<b>12.339 %</b>	<b>-1.5949</b>	<b>0.66</b>	<b>0.39</b>
<a href="#">GO:0031323</a>	<i>regulation of cellular metabolic process</i>	13.906 %	-1.0686	0.69	0.80
<a href="#">GO:0050794</a>	<i>regulation of cellular process</i>	22.244 %	-1.1772	0.72	0.61
<a href="#">GO:0050789</a>	<i>regulation of biological process</i>	24.333 %	-1.3568	0.77	0.51
<a href="#">GO:0009889</a>	<i>regulation of biosynthetic process</i>	12.408 %	-1.5323	0.68	0.78
<a href="#">GO:0070482</a>	<b>response to oxygen levels</b>	<b>0.285 %</b>	<b>-1.4178</b>	<b>0.91</b>	<b>0.40</b>
<a href="#">GO:0051098</a>	<b>regulation of binding</b>	<b>0.039 %</b>	<b>-1.7531</b>	<b>0.85</b>	<b>0.40</b>
<a href="#">GO:0009845</a>	<b>seed germination</b>	<b>0.600 %</b>	<b>-1.2597</b>	<b>0.78</b>	<b>0.41</b>
<a href="#">GO:0090351</a>	<i>seedling development</i>	0.660 %	-1.1888	0.77	0.53
<a href="#">GO:0003002</a>	<b>regionalization</b>	<b>0.617 %</b>	<b>-1.1935</b>	<b>0.78</b>	<b>0.41</b>
<a href="#">GO:0010375</a>	<i>stomatal complex patterning</i>	0.047 %	-1.1686	0.81	0.76
<a href="#">GO:0007389</a>	<b>pattern specification process</b>	<b>0.742 %</b>	<b>-1.0573</b>	<b>0.79</b>	<b>0.42</b>
<a href="#">GO:0009746</a>	<b>response to hexose</b>	<b>0.220 %</b>	<b>-1.3993</b>	<b>0.83</b>	<b>0.46</b>
<a href="#">GO:0009757</a>	<i>hexose mediated signaling</i>	0.026 %	-1.3005	0.69	0.86
<a href="#">GO:0042593</a>	<i>glucose homeostasis</i>	0.095 %	-1.0791	0.76	0.88
<a href="#">GO:0034284</a>	<i>response to monosaccharide</i>	0.237 %	-1.3515	0.84	0.86
<a href="#">GO:0010255</a>	<i>glucose mediated signaling pathway</i>	0.022 %	-1.3005	0.62	0.83
<a href="#">GO:0071331</a>	<i>cellular response to hexose stimulus</i>	0.073 %	-1.1159	0.80	1.00
<a href="#">GO:0071326</a>	<i>cellular response to monosaccharide stimulus</i>	0.073 %	-1.1159	0.81	0.90
<a href="#">GO:0001678</a>	<i>cellular glucose homeostasis</i>	0.091 %	-1.1214	0.71	0.97
<a href="#">GO:0071333</a>	<i>cellular response to glucose stimulus</i>	0.069 %	-1.1214	0.60	0.95
<a href="#">GO:0006811</a>	<b>ion transport</b>	<b>4.174 %</b>	<b>-1.1034</b>	<b>0.93</b>	<b>0.46</b>
<a href="#">GO:0006970</a>	<b>response to osmotic stress</b>	<b>2.512 %</b>	<b>-1.1604</b>	<b>0.90</b>	<b>0.49</b>
<a href="#">GO:0010087</a>	<b>phloem or xylem histogenesis</b>	<b>0.272 %</b>	<b>-1.2479</b>	<b>0.85</b>	<b>0.49</b>
<a href="#">GO:0051094</a>	<b>positive regulation of developmental process</b>	<b>0.436 %</b>	<b>-1.7240</b>	<b>0.69</b>	<b>0.50</b>
<a href="#">GO:0010455</a>	<i>positive regulation of cell fate commitment</i>	0.013 %	-1.6623	0.70	0.72



L:G0:0010453	regulation of cell fate commitment	0.047%	-[=]	-1.6232	0.69	0.54
L:G0:0051240	positive regulation of multicellular organismal process	0.401%	-[:::]	-1.0234	0.69	0.72
L:G0:0048131	regulation of shoot system development	0.850%	-[:::]	-1.2777	0.63	0.80
[::]	positive regulation of post-embryonic development	0.319%	-[::]	-1.1489	0.64	0.79
-	regulation of post-embryonic development	1.303%	-[::]	-1.2243	0.62	0.87
-	positive regulation of cell differentiation	0.030%	-[::]	-1.2754	0.68	0.76
-	regulation of flower development	0.609%	-[=]	-1.4790	0.63	0.68

Biological Process (339) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 11

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006200</a>	(obsolete) ATP catabolic process	0.562 %		-1.1235	0.99	0.00
<a href="#">GO:0022610</a>	biological adhesion	0.060 %		-2.0612	0.99	0.00
<a href="#">GO:0023052</a>	signaling	8.908 %		-3.3859	0.99	0.00
<a href="#">GO:0033993</a>	response to lipid	3.267 %		-4.2578	0.83	0.00
<a href="#">GO:0071229</a>	cellular response to acid chemical	2.158 %		-1.6224	0.79	0.79
<a href="#">GO:1901701</a>	cellular response to oxygen-containing compound	2.788 %		-2.4644	0.78	0.82
<a href="#">GO:1901700</a>	response to oxygen-containing compound	6.504 %		-2.8746	0.84	0.70
<a href="#">GO:0097305</a>	response to alcohol	2.469 %		-2.6429	0.83	0.63
<a href="#">GO:0097306</a>	cellular response to alcohol	1.170 %		-2.1932	0.79	0.88
<a href="#">GO:0048545</a>	response to steroid hormone	0.306 %		-1.4930	0.84	0.72
<a href="#">GO:0032870</a>	cellular response to hormone stimulus	3.871 %		-3.1807	0.77	0.67
<a href="#">GO:0071215</a>	cellular response to abscisic acid stimulus	1.170 %		-2.1932	0.78	0.98
<a href="#">GO:0071367</a>	cellular response to brassinosteroid stimulus	0.315 %		-1.4896	0.80	0.95
<a href="#">GO:0071365</a>	cellular response to auxin stimulus	0.932 %		-1.4585	0.80	0.78
<a href="#">GO:0070887</a>	cellular response to chemical stimulus	5.287 %		-3.4050	0.80	0.57
<a href="#">GO:0071383</a>	cellular response to steroid hormone stimulus	0.306 %		-1.4930	0.80	1.00

<a href="#">GO:0071396</a>	cellular response to lipid	1.770 %	-2.8215	0.78	0.81
<a href="#">GO:0071407</a>	cellular response to organic cyclic compound	0.798 %	-1.0234	0.80	0.79
<a href="#">GO:0071310</a>	cellular response to organic substance	4.601 %	-2.2459	0.77	0.88
<a href="#">GO:0010033</a>	response to organic substance	8.580 %	-3.0963	0.83	0.68
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-2.8409	0.84	0.62
<a href="#">GO:0009755</a>	hormone-mediated signaling pathway	3.617 %	-2.8298	0.59	0.94
<a href="#">GO:0009753</a>	response to jasmonic acid	0.919 %	-1.8875	0.84	0.55
<a href="#">GO:0009742</a>	brassinosteroid mediated signaling pathway	0.306 %	-1.4930	0.66	0.72
<a href="#">GO:0009741</a>	response to brassinosteroid	0.410 %	-1.6767	0.84	0.50
<a href="#">GO:0009738</a>	abscisic acid-activated signaling pathway	1.062 %	-2.0258	0.62	0.87
<a href="#">GO:0009737</a>	response to abscisic acid	2.443 %	-2.6642	0.81	0.85
<a href="#">GO:0009734</a>	auxin-activated signaling pathway	0.868 %	-1.0766	0.64	0.85
<a href="#">GO:0009725</a>	response to hormone	6.871 %	-4.4656	0.81	0.82
<a href="#">GO:0043401</a>	steroid hormone mediated signaling pathway	0.306 %	-1.4930	0.66	1.00
<a href="#">GO:0014070</a>	response to organic cyclic compound	1.606 %	-1.7857	0.85	0.59
<a href="#">GO:0071495</a>	cellular response to endogenous stimulus	3.988 %	-3.0737	0.85	0.75
<a href="#">GO:0043455</a>	<b>regulation of secondary metabolic process</b>	<b>0.173 %</b>	<b>-6.1454</b>	<b>0.75</b>	<b>0.00</b>
<a href="#">GO:0044550</a>	secondary metabolite biosynthetic process	1.183 %	-2.8904	0.80	0.72
<a href="#">GO:0009698</a>	phenylpropanoid metabolic process	0.505 %	-1.2917	0.79	0.80
<a href="#">GO:0009699</a>	phenylpropanoid biosynthetic process	0.337 %	-1.0231	0.77	0.76
<a href="#">GO:0010023</a>	proanthocyanidin biosynthetic process	0.035 %	-1.0706	0.79	0.77
<a href="#">GO:2000762</a>	regulation of phenylpropanoid metabolic process	0.069 %	-2.8931	0.73	0.88
<a href="#">GO:1900376</a>	regulation of secondary metabolite biosynthetic process	0.078 %	-3.8630	0.75	0.57
<a href="#">GO:0044699</a>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-2.2842</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-2.2406</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0065007</a>	<b>biological regulation</b>	<b>28.554 %</b>	<b>-1.6337</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0006790</a>	sulfur compound metabolic process	1.420 %	-2.5564	0.94	0.05
<a href="#">GO:0007154</a>	cell communication	9.698 %	-3.8679	0.95	0.07
<a href="#">GO:0043473</a>	pigmentation	0.022 %	-2.8683	0.92	0.07
<a href="#">GO:0005975</a>	carbohydrate metabolic process	4.670 %	-1.4882	0.95	0.07
<a href="#">GO:0000060</a>	<b>protein import into nucleus, translocation</b>	<b>0.039 %</b>	<b>-3.3410</b>	<b>0.86</b>	<b>0.07</b>
<a href="#">GO:1902593</a>	single-organism nuclear import	0.242 %	-1.6786	0.84	0.99
<a href="#">GO:0044744</a>	protein targeting to nucleus	0.246 %	-1.6786	0.91	0.98
<a href="#">GO:0034504</a>	protein localization to nucleus	0.268 %	-1.6051	0.92	0.64
<a href="#">GO:0006606</a>	protein import into nucleus	0.242 %	-1.6786	0.83	0.87
<a href="#">GO:0051170</a>	nuclear import	0.246 %	-1.5577	0.92	0.89
<a href="#">GO:0010191</a>	<b>mucilage metabolic process</b>	<b>0.142 %</b>	<b>-1.4316</b>	<b>0.95</b>	<b>0.08</b>
<a href="#">GO:0045168</a>	<b>cell-cell signaling involved in cell fate commitment</b>	<b>0.168 %</b>	<b>-5.8248</b>	<b>0.68</b>	<b>0.08</b>
<a href="#">GO:0008544</a>	epidermis development	0.069 %	-2.5401	0.81	0.57
<a href="#">GO:0060429</a>	epithelium development	0.082 %	-2.3696	0.81	0.57
<a href="#">GO:0090558</a>	plant epidermis development	1.001 %	-2.8953	0.77	0.71
<a href="#">GO:0010057</a>	trichoblast fate specification	0.009 %	-1.7755	0.70	1.00
<a href="#">GO:0010054</a>	trichoblast differentiation	0.427 %	-1.4655	0.64	0.97
<a href="#">GO:0010053</a>	root epidermal cell differentiation	0.488 %	-1.2015	0.64	0.93
<a href="#">GO:0010063</a>	positive regulation of trichoblast fate specification	0.009 %	-1.7755	0.61	0.85
<a href="#">GO:0010061</a>	regulation of trichoblast fate specification	0.009 %	-1.7755	0.62	1.00
<a href="#">GO:0042660</a>	positive regulation of cell fate specification	0.009 %	-1.7248	0.65	0.96
<a href="#">GO:0042659</a>	regulation of cell fate specification	0.017 %	-1.7248	0.65	0.75
<a href="#">GO:0010090</a>	trichome morphogenesis	0.246 %	-3.9345	0.67	0.80
<a href="#">GO:0010091</a>	trichome branching	0.121 %	-2.1290	0.69	0.89
<a href="#">GO:0048468</a>	cell development	1.217 %	-2.2268	0.68	0.65
<a href="#">GO:0000902</a>	cell morphogenesis	1.467 %	-1.2343	0.67	0.91
<a href="#">GO:0000904</a>	cell morphogenesis involved in differentiation	0.880 %	-1.9032	0.67	0.81
<a href="#">GO:0010026</a>	trichome differentiation	0.341 %	-4.4514	0.68	0.54
<a href="#">GO:0048469</a>	cell maturation	0.410 %	-1.6159	0.69	0.87
<a href="#">GO:0032989</a>	cellular component morphogenesis	1.618 %	-1.6293	0.67	0.72
<a href="#">GO:0030855</a>	epithelial cell differentiation	0.069 %	-2.7192	0.72	0.98
<a href="#">GO:0048765</a>	root hair cell differentiation	0.406 %	-1.6159	0.63	0.85
<a href="#">GO:0045165</a>	cell fate commitment	0.341 %	-3.5987	0.72	0.58
<a href="#">GO:0048764</a>	trichoblast maturation	0.406 %	-1.6159	0.63	0.99
<a href="#">GO:0010440</a>	stomatal lineage progression	0.069 %	-1.0909	0.70	0.70
<a href="#">GO:0010455</a>	positive regulation of cell fate commitment	0.013 %	-1.3622	0.64	0.89
<a href="#">GO:0010453</a>	regulation of cell fate commitment	0.047 %	-1.3236	0.64	0.81
<a href="#">GO:1903890</a>	positive regulation of plant epidermal cell differentiation	0.009 %	-1.7248	0.66	1.00
<a href="#">GO:0048629</a>	trichome patterning	0.030 %	-5.8248	0.68	0.78
<a href="#">GO:0009957</a>	epidermal cell fate specification	0.026 %	-1.4048	0.71	0.94
<a href="#">GO:0001708</a>	cell fate specification	0.134 %	-1.7021	0.71	0.87
<a href="#">GO:0090626</a>	plant epidermis morphogenesis	0.367 %	-3.4412	0.77	0.81
<a href="#">GO:0090628</a>	plant epidermal cell fate specification	0.009 %	-1.7248	0.75	0.72

<a href="#">GO:0090627</a>	plant epidermal cell differentiation	0.621 %	-1.1612	0.70	0.69
<a href="#">GO:0009913</a>	epidermal cell differentiation	0.069 %	-2.7192	0.72	0.57
<a href="#">GO:1901615</a>	<b>organic hydroxy compound metabolic process</b>	<b>1.265 %</b>	<b>-1.4749</b>	<b>0.96</b>	<b>0.10</b>
<a href="#">GO:0044763</a>	single-organism cellular process	23.034 %	-2.5542	0.84	0.13
<a href="#">GO:0048041</a>	<b>focal adhesion assembly</b>	<b>0.004 %</b>	<b>-3.4689</b>	<b>0.84</b>	<b>0.14</b>
<a href="#">GO:0034329</a>	cell junction assembly	0.026 %	-3.0027	0.84	0.86
<a href="#">GO:0034332</a>	adherens junction organization	0.004 %	-3.4689	0.86	0.78
<a href="#">GO:0034333</a>	adherens junction assembly	0.004 %	-3.4689	0.86	1.00
<a href="#">GO:0007160</a>	cell-matrix adhesion	0.004 %	-3.4689	0.98	1.00
<a href="#">GO:0007155</a>	cell adhesion	0.060 %	-2.0612	0.98	0.85
<a href="#">GO:0031589</a>	cell-substrate adhesion	0.004 %	-3.4689	0.98	0.74
<a href="#">GO:0007045</a>	cell-substrate adherens junction assembly	0.004 %	-3.4689	0.86	1.00
<a href="#">GO:0007044</a>	cell-substrate junction assembly	0.004 %	-3.4689	0.86	0.82
<a href="#">GO:0045216</a>	cell-cell junction organization	0.039 %	-2.6503	0.84	0.97
<a href="#">GO:0030002</a>	<b>cellular anion homeostasis</b>	<b>0.030 %</b>	<b>-1.4781</b>	<b>0.81</b>	<b>0.16</b>
<a href="#">GO:0072502</a>	cellular trivalent inorganic anion homeostasis	0.022 %	-1.4781	0.81	0.96
<a href="#">GO:0030643</a>	cellular phosphate ion homeostasis	0.022 %	-1.4781	0.81	0.75
<a href="#">GO:0030048</a>	<b>actin filament-based movement</b>	<b>0.086 %</b>	<b>-1.4781</b>	<b>0.87</b>	<b>0.17</b>
<a href="#">GO:0051240</a>	<b>positive regulation of multicellular organismal process</b>	<b>0.401 %</b>	<b>-3.1779</b>	<b>0.70</b>	<b>0.18</b>
<a href="#">GO:0051241</a>	negative regulation of multicellular organismal process	0.445 %	-1.7869	0.64	0.70
<a href="#">GO:0048582</a>	positive regulation of post-embryonic development	0.319 %	-1.9189	0.63	0.68
<a href="#">GO:0048578</a>	positive regulation of long-day photoperiodism, flowering	0.030 %	-1.2114	0.60	0.79
<a href="#">GO:1905423</a>	positive regulation of plant organ morphogenesis	0.009 %	-1.7248	0.69	0.73
<a href="#">GO:1900057</a>	positive regulation of leaf senescence	0.039 %	-1.6012	0.67	0.81
<a href="#">GO:0048831</a>	regulation of shoot system development	0.850 %	-1.5423	0.61	0.76
<a href="#">GO:2000067</a>	regulation of root morphogenesis	0.039 %	-1.0513	0.67	0.82
<a href="#">GO:0045339</a>	<b>farnesyl diphosphate catabolic process</b>	<b>0.023 %</b>	<b>-1.7755</b>	<b>0.83</b>	<b>0.19</b>
<a href="#">GO:0033383</a>	geranyl diphosphate metabolic process	0.056 %	-1.2114	0.82	0.62
<a href="#">GO:0043692</a>	monoterpene metabolic process	0.017 %	-1.5669	0.84	0.85
<a href="#">GO:0043693</a>	monoterpene biosynthetic process	0.017 %	-1.5669	0.82	0.56
<a href="#">GO:0045338</a>	farnesyl diphosphate metabolic process	0.078 %	-1.0420	0.82	0.67
<a href="#">GO:0046246</a>	terpene biosynthetic process	0.043 %	-1.0153	0.81	0.89
<a href="#">GO:0009395</a>	phospholipid catabolic process	0.052 %	-1.1976	0.82	0.85
<a href="#">GO:0034330</a>	<b>cell junction organization</b>	<b>0.039 %</b>	<b>-2.6503</b>	<b>0.86</b>	<b>0.20</b>
<a href="#">GO:0009718</a>	<b>anthocyanin-containing compound biosynthetic process</b>	<b>0.121 %</b>	<b>-1.3486</b>	<b>0.84</b>	<b>0.21</b>
<a href="#">GO:0009963</a>	positive regulation of flavonoid biosynthetic process	0.039 %	-1.2257	0.82	0.78
<a href="#">GO:0009411</a>	<b>response to UV</b>	<b>0.427 %</b>	<b>-3.4308</b>	<b>0.89</b>	<b>0.23</b>
<a href="#">GO:0009314</a>	response to radiation	2.892 %	-1.9378	0.88	0.52
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %	-1.9776	0.87	0.76
<a href="#">GO:1905328</a>	<b>plant septum development</b>	<b>0.009 %</b>	<b>-1.1467</b>	<b>0.87</b>	<b>0.23</b>
<a href="#">GO:0010360</a>	<b>negative regulation of anion channel activity</b>	<b>0.017 %</b>	<b>-2.5519</b>	<b>0.72</b>	<b>0.23</b>
<a href="#">GO:0001933</a>	negative regulation of protein phosphorylation	0.134 %	-1.1349	0.73	0.99
<a href="#">GO:0051348</a>	negative regulation of transferase activity	0.151 %	-1.1235	0.86	0.80
<a href="#">GO:0032412</a>	regulation of ion transmembrane transporter activity	0.060 %	-1.3341	0.77	0.98
<a href="#">GO:0032409</a>	regulation of transporter activity	0.060 %	-1.3341	0.79	0.65
<a href="#">GO:0032410</a>	negative regulation of transporter activity	0.017 %	-2.5519	0.73	0.95
<a href="#">GO:0032413</a>	negative regulation of ion transmembrane transporter activity	0.017 %	-2.5519	0.73	1.00
<a href="#">GO:0044070</a>	regulation of anion transport	0.164 %	-1.4597	0.78	0.89
<a href="#">GO:1903792</a>	negative regulation of anion transport	0.017 %	-2.5519	0.74	0.95
<a href="#">GO:0044092</a>	negative regulation of molecular function	1.070 %	-1.2833	0.84	0.55
<a href="#">GO:0032973</a>	amino acid export	0.082 %	-1.1976	0.84	0.70
<a href="#">GO:0042326</a>	negative regulation of phosphorylation	0.138 %	-1.1235	0.73	0.97
<a href="#">GO:0034762</a>	regulation of transmembrane transport	0.216 %	-1.3105	0.78	0.75
<a href="#">GO:0034763</a>	negative regulation of transmembrane transport	0.017 %	-2.5519	0.74	0.95
<a href="#">GO:0010359</a>	regulation of anion channel activity	0.047 %	-1.4655	0.78	0.91
<a href="#">GO:0034765</a>	regulation of ion transmembrane transport	0.207 %	-1.3105	0.77	0.95
<a href="#">GO:0010362</a>	negative regulation of anion channel activity by blue light	0.009 %	-1.4781	0.73	0.96
<a href="#">GO:0010361</a>	regulation of anion channel activity by blue light	0.009 %	-1.4781	0.80	0.85
<a href="#">GO:0034766</a>	negative regulation of ion transmembrane transport	0.017 %	-2.5519	0.73	1.00
<a href="#">GO:0098656</a>	anion transmembrane transport	0.902 %	-1.2528	0.90	0.62
<a href="#">GO:1903960</a>	negative regulation of anion transmembrane transport	0.017 %	-2.5519	0.73	1.00
<a href="#">GO:1903959</a>	regulation of anion transmembrane transport	0.129 %	-1.4655	0.78	0.84
<a href="#">GO:0022898</a>	regulation of transmembrane transporter activity	0.060 %	-1.3341	0.78	1.00
<a href="#">GO:0051051</a>	negative regulation of transport	0.026 %	-2.0740	0.75	0.60
<a href="#">GO:0006469</a>	negative regulation of protein kinase activity	0.134 %	-1.1349	0.71	0.65
<a href="#">GO:0033673</a>	negative regulation of kinase activity	0.134 %	-1.1349	0.71	0.99
<a href="#">GO:0043271</a>	negative regulation of ion transport	0.026 %	-2.0740	0.73	0.98
<a href="#">GO:0043269</a>	regulation of ion transport	0.302 %	-1.1184	0.78	0.85
<a href="#">GO:0048519</a>	<b>negative regulation of biological process</b>	<b>3.716 %</b>	<b>-3.1044</b>	<b>0.83</b>	<b>0.24</b>
<a href="#">GO:0009611</a>	<b>response to wounding</b>	<b>0.816 %</b>	<b>-1.2370</b>	<b>0.90</b>	<b>0.24</b>

<a href="#">GO:0042762</a>	<b>regulation of sulfur metabolic process</b>	<b>0.091 %</b>	<b>-2.9056</b>	<b>0.79</b>	<b>0.24</b>
<i>GO:0009070</i>	<i>serine family amino acid biosynthetic process</i>	<i>0.177 %</i>	<i>-1.7347</i>	<i>0.78</i>	<i>0.91</i>
<i>GO:0044272</i>	<i>sulfur compound biosynthetic process</i>	<i>0.699 %</i>	<i>-2.7805</i>	<i>0.87</i>	<i>0.70</i>
<i>GO:0046500</i>	<i>S-adenosylmethionine metabolic process</i>	<i>0.043 %</i>	<i>-1.0807</i>	<i>0.91</i>	<i>0.57</i>
<i>GO:0019419</i>	<i>sulfate reduction</i>	<i>0.013 %</i>	<i>-1.6012</i>	<i>0.83</i>	<i>0.53</i>
<i>GO:0019344</i>	<i>cysteine biosynthetic process</i>	<i>0.104 %</i>	<i>-1.9887</i>	<i>0.76</i>	<i>0.71</i>
<i>GO:0006534</i>	<i>cysteine metabolic process</i>	<i>0.134 %</i>	<i>-1.8513</i>	<i>0.78</i>	<i>0.87</i>
<i>GO:0006535</i>	<i>cysteine biosynthetic process from serine</i>	<i>0.065 %</i>	<i>-1.0609</i>	<i>0.77</i>	<i>0.93</i>
<i>GO:0006556</i>	<i>S-adenosylmethionine biosynthetic process</i>	<i>0.017 %</i>	<i>-1.2257</i>	<i>0.89</i>	<i>0.54</i>
<i>GO:0000103</i>	<i>sulfate assimilation</i>	<i>0.060 %</i>	<i>-1.0909</i>	<i>0.91</i>	<i>0.58</i>
<a href="#">GO:0010675</a>	<b>regulation of cellular carbohydrate metabolic process</b>	<b>0.125 %</b>	<b>-3.8494</b>	<b>0.79</b>	<b>0.25</b>
<i>GO:0019760</i>	<i>glucosinolate metabolic process</i>	<i>0.514 %</i>	<i>-2.7534</i>	<i>0.75</i>	<i>0.91</i>
<i>GO:0019758</i>	<i>glucosinolate biosynthetic process</i>	<i>0.194 %</i>	<i>-3.5198</i>	<i>0.75</i>	<i>1.00</i>
<i>GO:0019757</i>	<i>glucosinolate metabolic process</i>	<i>0.514 %</i>	<i>-2.7534</i>	<i>0.75</i>	<i>0.99</i>
<i>GO:0019761</i>	<i>glucosinolate biosynthetic process</i>	<i>0.194 %</i>	<i>-3.5198</i>	<i>0.75</i>	<i>0.86</i>
<i>GO:0019751</i>	<i>polyol metabolic process</i>	<i>0.246 %</i>	<i>-1.3735</i>	<i>0.84</i>	<i>0.82</i>
<i>GO:0019400</i>	<i>alditol metabolic process</i>	<i>0.117 %</i>	<i>-2.5519</i>	<i>0.79</i>	<i>0.89</i>
<i>GO:0010581</i>	<i>regulation of starch biosynthetic process</i>	<i>0.013 %</i>	<i>-1.3425</i>	<i>0.74</i>	<i>0.79</i>
<i>GO:0006067</i>	<i>ethanol metabolic process</i>	<i>0.004 %</i>	<i>-1.3425</i>	<i>0.87</i>	<i>0.75</i>
<i>GO:0006066</i>	<i>alcohol metabolic process</i>	<i>0.505 %</i>	<i>-1.7240</i>	<i>0.83</i>	<i>0.72</i>
<i>GO:0010439</i>	<i>regulation of glucosinolate biosynthetic process</i>	<i>0.026 %</i>	<i>-4.0031</i>	<i>0.69</i>	<i>0.83</i>
<i>GO:2000904</i>	<i>regulation of starch metabolic process</i>	<i>0.043 %</i>	<i>-1.1235</i>	<i>0.80</i>	<i>0.86</i>
<i>GO:0006069</i>	<i>ethanol oxidation</i>	<i>0.004 %</i>	<i>-1.3425</i>	<i>0.87</i>	<i>0.63</i>
<i>GO:0010411</i>	<i>xyloglucan metabolic process</i>	<i>0.259 %</i>	<i>-1.6264</i>	<i>0.90</i>	<i>0.62</i>
<i>GO:0006071</i>	<i>glycerol metabolic process</i>	<i>0.117 %</i>	<i>-2.5519</i>	<i>0.79</i>	<i>0.59</i>
<i>GO:0010410</i>	<i>hemicellulose metabolic process</i>	<i>0.423 %</i>	<i>-1.0016</i>	<i>0.90</i>	<i>0.92</i>
<i>GO:0009969</i>	<i>xyloglucan biosynthetic process</i>	<i>0.091 %</i>	<i>-1.0329</i>	<i>0.78</i>	<i>0.84</i>
<i>GO:0043255</i>	<i>regulation of carbohydrate biosynthetic process</i>	<i>0.117 %</i>	<i>-3.3144</i>	<i>0.73</i>	<i>0.92</i>
<a href="#">GO:0060867</a>	<b>fruit abscission</b>	<b>0.004 %</b>	<b>-1.6795</b>	<b>0.82</b>	<b>0.26</b>
<i>GO:0010227</i>	<i>floral organ abscission</i>	<i>0.112 %</i>	<i>-1.3198</i>	<i>0.74</i>	<i>0.79</i>
<i>GO:0060862</i>	<i>negative regulation of floral organ abscission</i>	<i>0.004 %</i>	<i>-1.4522</i>	<i>0.65</i>	<i>0.79</i>
<i>GO:0060860</i>	<i>regulation of floral organ abscission</i>	<i>0.004 %</i>	<i>-1.4522</i>	<i>0.70</i>	<i>0.79</i>
<a href="#">GO:0019748</a>	<b>secondary metabolic process</b>	<b>1.938 %</b>	<b>-3.1971</b>	<b>0.84</b>	<b>0.27</b>
<a href="#">GO:0009767</a>	<b>photosynthetic electron transport chain</b>	<b>0.224 %</b>	<b>-1.0341</b>	<b>0.83</b>	<b>0.28</b>
<a href="#">GO:0006805</a>	<b>xenobiotic metabolic process</b>	<b>0.009 %</b>	<b>-1.4048</b>	<b>0.85</b>	<b>0.29</b>
<i>GO:0042178</i>	<i>xenobiotic catabolic process</i>	<i>0.004 %</i>	<i>-1.5056</i>	<i>0.85</i>	<i>0.96</i>
<i>GO:0071466</i>	<i>cellular response to xenobiotic stimulus</i>	<i>0.009 %</i>	<i>-1.4048</i>	<i>0.86</i>	<i>0.96</i>
<a href="#">GO:0043619</a>	<b>regulation of transcription from RNA polymerase II promoter in response to oxidative stress</b>	<b>0.004 %</b>	<b>-1.3830</b>	<b>0.76</b>	<b>0.29</b>
<i>GO:0043618</i>	<i>regulation of transcription from RNA polymerase II promoter in response to stress</i>	<i>0.009 %</i>	<i>-1.1015</i>	<i>0.77</i>	<i>0.92</i>
<a href="#">GO:0098727</a>	<b>maintenance of cell number</b>	<b>0.216 %</b>	<b>-1.2402</b>	<b>0.84</b>	<b>0.29</b>
<a href="#">GO:0010077</a>	<b>maintenance of inflorescence meristem identity</b>	<b>0.039 %</b>	<b>-2.7327</b>	<b>0.76</b>	<b>0.30</b>
<i>GO:0019827</i>	<i>stem cell population maintenance</i>	<i>0.216 %</i>	<i>-1.2402</i>	<i>0.78</i>	<i>0.97</i>
<i>GO:0048510</i>	<i>regulation of timing of transition from vegetative to reproductive phase</i>	<i>0.164 %</i>	<i>-1.2402</i>	<i>0.67</i>	<i>0.65</i>
<i>GO:0048506</i>	<i>regulation of timing of meristematic phase transition</i>	<i>0.164 %</i>	<i>-1.2402</i>	<i>0.67</i>	<i>0.95</i>
<i>GO:0010582</i>	<i>floral meristem determinacy</i>	<i>0.052 %</i>	<i>-2.1136</i>	<i>0.73</i>	<i>0.70</i>
<i>GO:0010073</i>	<i>meristem maintenance</i>	<i>0.427 %</i>	<i>-1.1890</i>	<i>0.73</i>	<i>0.78</i>
<i>GO:0010074</i>	<i>maintenance of meristem identity</i>	<i>0.155 %</i>	<i>-1.5777</i>	<i>0.74</i>	<i>0.86</i>
<i>GO:0010076</i>	<i>maintenance of floral meristem identity</i>	<i>0.026 %</i>	<i>-1.3425</i>	<i>0.77</i>	<i>0.80</i>
<i>GO:0010022</i>	<i>meristem determinacy</i>	<i>0.056 %</i>	<i>-2.1136</i>	<i>0.76</i>	<i>0.72</i>
<a href="#">GO:0048583</a>	<b>regulation of response to stimulus</b>	<b>2.521 %</b>	<b>-2.4327</b>	<b>0.77</b>	<b>0.31</b>
<a href="#">GO:0048354</a>	<b>mucilage biosynthetic process involved in seed coat development</b>	<b>0.056 %</b>	<b>-3.0435</b>	<b>0.73</b>	<b>0.31</b>
<i>GO:0010192</i>	<i>mucilage biosynthetic process</i>	<i>0.121 %</i>	<i>-1.8043</i>	<i>0.91</i>	<i>0.95</i>
<i>GO:0010214</i>	<i>seed coat development</i>	<i>0.168 %</i>	<i>-1.0557</i>	<i>0.75</i>	<i>0.53</i>
<i>GO:0048359</i>	<i>mucilage metabolic process involved in seed coat development</i>	<i>0.086 %</i>	<i>-2.0003</i>	<i>0.74</i>	<i>0.90</i>
<a href="#">GO:0071249</a>	<b>cellular response to nitrate</b>	<b>0.017 %</b>	<b>-1.0909</b>	<b>0.85</b>	<b>0.31</b>
<a href="#">GO:1901140</a>	<b>p-coumaroyl alcohol transport</b>	<b>0.004 %</b>	<b>-1.0068</b>	<b>0.88</b>	<b>0.31</b>
<a href="#">GO:0042335</a>	<b>cuticle development</b>	<b>0.082 %</b>	<b>-1.6337</b>	<b>0.80</b>	<b>0.32</b>
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-1.5711</b>	<b>0.85</b>	<b>0.32</b>
<a href="#">GO:0080051</a>	<b>cutin transport</b>	<b>0.009 %</b>	<b>-1.4522</b>	<b>0.88</b>	<b>0.32</b>
<a href="#">GO:0010160</a>	<b>formation of animal organ boundary</b>	<b>0.055 %</b>	<b>-1.0068</b>	<b>0.77</b>	<b>0.33</b>
<a href="#">GO:0009838</a>	<b>abscission</b>	<b>0.125 %</b>	<b>-1.3013</b>	<b>0.79</b>	<b>0.33</b>
<a href="#">GO:0007584</a>	<b>response to nutrient</b>	<b>0.047 %</b>	<b>-1.8610</b>	<b>0.87</b>	<b>0.33</b>
<i>GO:0033273</i>	<i>response to vitamin</i>	<i>0.026 %</i>	<i>-1.1976</i>	<i>0.87</i>	<i>0.87</i>
<i>GO:0031667</i>	<i>response to nutrient levels</i>	<i>0.639 %</i>	<i>-1.6182</i>	<i>0.88</i>	<i>0.76</i>
<i>GO:0006995</i>	<i>cellular response to nitrogen starvation</i>	<i>0.073 %</i>	<i>-1.1467</i>	<i>0.83</i>	<i>0.79</i>
<i>GO:0009970</i>	<i>cellular response to sulfate starvation</i>	<i>0.052 %</i>	<i>-1.7687</i>	<i>0.84</i>	<i>0.76</i>
<i>GO:0010266</i>	<i>response to vitamin B1</i>	<i>0.009 %</i>	<i>-1.6012</i>	<i>0.86</i>	<i>0.59</i>
<a href="#">GO:0021700</a>	<b>developmental maturation</b>	<b>0.794 %</b>	<b>-2.4510</b>	<b>0.78</b>	<b>0.33</b>
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-3.7963</b>	<b>0.88</b>	<b>0.33</b>
<a href="#">GO:0043620</a>	<b>regulation of DNA-templated transcription in response to stress</b>	<b>0.013 %</b>	<b>-1.0153</b>	<b>0.77</b>	<b>0.33</b>
<a href="#">GO:0051262</a>	<b>protein tetramerization</b>	<b>0.056 %</b>	<b>-2.1992</b>	<b>0.94</b>	<b>0.35</b>

<a href="#">GO:0051259</a>	protein oligomerization	0.224 %	-1.3293	0.93	0.63
<a href="#">GO:0051289</a>	protein homotetramerization	0.030 %	-1.1588	0.94	0.78
<a href="#">GO:0010048</a>	<b>vernalization response</b>	<b>0.065 %</b>	<b>-2.5067</b>	<b>0.91</b>	<b>0.36</b>
<a href="#">GO:0010219</a>	regulation of vernalization response	0.022 %	-1.5351	0.80	0.52
<a href="#">GO:0010220</a>	positive regulation of vernalization response	0.013 %	-1.5351	0.79	0.84
<a href="#">GO:0007267</a>	<b>cell-cell signaling</b>	<b>0.371 %</b>	<b>-3.8845</b>	<b>0.81</b>	<b>0.37</b>
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-1.3445	0.88	0.37
<a href="#">GO:0009627</a>	<b>systemic acquired resistance</b>	<b>0.281 %</b>	<b>-1.4896</b>	<b>0.89</b>	<b>0.38</b>
<a href="#">GO:0002764</a>	immune response-regulating signaling pathway	0.022 %	-1.1713	0.74	0.59
<a href="#">GO:0046459</a>	short-chain fatty acid metabolic process	0.013 %	-1.2558	0.83	0.38
<a href="#">GO:0060151</a>	<b>peroxisome localization</b>	<b>0.009 %</b>	<b>-1.2717</b>	<b>0.94</b>	<b>0.39</b>
<a href="#">GO:0051646</a>	mitochondrion localization	0.017 %	-1.2114	0.93	0.63
<a href="#">GO:0051645</a>	Golgi localization	0.009 %	-1.2717	0.94	0.61
<a href="#">GO:0015749</a>	<b>monosaccharide transport</b>	<b>0.229 %</b>	<b>-1.3056</b>	<b>0.85</b>	<b>0.40</b>
<a href="#">GO:0044765</a>	single-organism transport	5.287 %	-1.5516	0.81	0.61
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.5003	0.82	0.63
<a href="#">GO:0009069</a>	<b>serine family amino acid metabolic process</b>	<b>0.276 %</b>	<b>-1.1689</b>	<b>0.80</b>	<b>0.40</b>
<a href="#">GO:1901607</a>	alpha-amino acid biosynthetic process	0.833 %	-1.0726	0.76	0.80
<a href="#">GO:0080127</a>	fruit septum development	0.004 %	-1.2717	0.80	0.41
<a href="#">GO:0002215</a>	defense response to nematode	0.013 %	-1.3236	0.91	0.42
<a href="#">GO:2000068</a>	regulation of defense response to insect	0.013 %	-1.1235	0.81	0.42
<a href="#">GO:0006694</a>	<b>steroid biosynthetic process</b>	<b>0.358 %</b>	<b>-1.4483</b>	<b>0.82</b>	<b>0.42</b>
<a href="#">GO:0008202</a>	steroid metabolic process	0.427 %	-1.0495	0.84	0.53
<a href="#">GO:0010646</a>	regulation of cell communication	1.139 %	-2.0292	0.80	0.42
<a href="#">GO:0009888</a>	<b>tissue development</b>	<b>2.326 %</b>	<b>-1.8763</b>	<b>0.80</b>	<b>0.42</b>
<a href="#">GO:0048869</a>	cellular developmental process	4.148 %	-1.1434	0.70	0.52
<a href="#">GO:0010540</a>	basipetal auxin transport	0.078 %	-1.1505	0.80	0.42
<a href="#">GO:0044711</a>	single-organism biosynthetic process	7.549 %	-1.3074	0.80	0.42
<a href="#">GO:0051716</a>	cellular response to stimulus	12.637 %	-2.5278	0.84	0.43
<a href="#">GO:0009628</a>	response to abiotic stimulus	7.946 %	-2.0598	0.88	0.43
<a href="#">GO:0023051</a>	<b>regulation of signaling</b>	<b>1.126 %</b>	<b>-2.0411</b>	<b>0.82</b>	<b>0.44</b>
<a href="#">GO:0044700</a>	single organism signaling	8.899 %	-3.3932	0.83	0.64
<a href="#">GO:0007165</a>	signal transduction	8.731 %	-2.1565	0.61	0.91
<a href="#">GO:0050794</a>	<b>regulation of cellular process</b>	<b>22.244 %</b>	<b>-2.1930</b>	<b>0.76</b>	<b>0.45</b>
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %	-1.0991	0.71	0.59
<a href="#">GO:0050789</a>	regulation of biological process	24.333 %	-1.9075	0.82	0.61
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-1.0627	0.74	0.78
<a href="#">GO:0006109</a>	<b>regulation of carbohydrate metabolic process</b>	<b>0.199 %</b>	<b>-2.8552</b>	<b>0.81</b>	<b>0.45</b>
<a href="#">GO:0044723</a>	single-organism carbohydrate metabolic process	2.283 %	-1.3723	0.81	0.75
<a href="#">GO:0044262</a>	cellular carbohydrate metabolic process	1.817 %	-2.2356	0.90	0.57
<a href="#">GO:0048438</a>	<b>floral whorl development</b>	<b>0.669 %</b>	<b>-2.3954</b>	<b>0.72</b>	<b>0.47</b>
<a href="#">GO:0090567</a>	reproductive shoot system development	2.110 %	-1.8142	0.70	0.72
<a href="#">GO:0048467</a>	gynoecium development	0.315 %	-2.3406	0.73	0.71
<a href="#">GO:0048440</a>	carpel development	0.268 %	-1.2530	0.72	0.85
<a href="#">GO:0048437</a>	floral organ development	0.872 %	-1.5547	0.71	0.88
<a href="#">GO:2000241</a>	regulation of reproductive process	1.092 %	-1.0502	0.79	0.53
<a href="#">GO:0048480</a>	stigma development	0.004 %	-1.2558	0.79	0.51
<a href="#">GO:0048367</a>	shoot system development	3.599 %	-1.0778	0.71	0.59
<a href="#">GO:0009908</a>	flower development	2.059 %	-1.9415	0.69	0.85
<a href="#">GO:0002213</a>	<b>defense response to insect</b>	<b>0.069 %</b>	<b>-1.4153</b>	<b>0.90</b>	<b>0.47</b>
<a href="#">GO:0090436</a>	leaf pavement cell development	0.017 %	-1.2717	0.73	0.47
<a href="#">GO:0045596</a>	<b>negative regulation of cell differentiation</b>	<b>0.052 %</b>	<b>-3.3805</b>	<b>0.58</b>	<b>0.47</b>
<a href="#">GO:0048523</a>	negative regulation of cellular process	2.719 %	-3.2363	0.70	0.68
<a href="#">GO:0023057</a>	negative regulation of signaling	0.345 %	-3.3763	0.69	0.56
<a href="#">GO:0031324</a>	negative regulation of cellular metabolic process	1.929 %	-1.4160	0.68	0.85
<a href="#">GO:1902679</a>	negative regulation of RNA biosynthetic process	1.057 %	-1.6969	0.67	0.99
<a href="#">GO:0031327</a>	negative regulation of cellular biosynthetic process	1.429 %	-1.2834	0.67	0.98
<a href="#">GO:0080050</a>	regulation of seed development	0.129 %	-1.6410	0.64	0.70
<a href="#">GO:0048584</a>	positive regulation of response to stimulus	0.902 %	-1.1944	0.74	0.74
<a href="#">GO:0051253</a>	negative regulation of RNA metabolic process	1.062 %	-1.6879	0.68	0.96
<a href="#">GO:0048581</a>	negative regulation of post-embryonic development	0.354 %	-1.3590	0.57	0.80
<a href="#">GO:0048585</a>	negative regulation of response to stimulus	0.699 %	-1.8730	0.68	0.74
<a href="#">GO:2000692</a>	negative regulation of seed maturation	0.017 %	-2.7620	0.62	0.65
<a href="#">GO:0045934</a>	negative regulation of nucleobase-containing compound metabolic process	1.139 %	-1.5644	0.68	0.92
<a href="#">GO:0010648</a>	negative regulation of cell communication	0.345 %	-3.3763	0.72	0.53
<a href="#">GO:0045892</a>	negative regulation of transcription, DNA-templated	0.958 %	-1.6969	0.67	0.77
<a href="#">GO:0010629</a>	negative regulation of gene expression	1.601 %	-1.0729	0.71	0.91
<a href="#">GO:0010605</a>	negative regulation of macromolecule metabolic process	2.171 %	-1.3204	0.70	0.94
<a href="#">GO:0097438</a>	exit from dormancy	0.009 %	-1.2404	0.83	0.70
<a href="#">GO:0010558</a>	negative regulation of macromolecule biosynthetic process	1.355 %	-1.3723	0.69	0.96
<a href="#">GO:1900033</a>	negative regulation of trichome patterning	0.022 %	-1.9782	0.54	0.91
<a href="#">GO:1900032</a>	regulation of trichome patterning	0.022 %	-1.9782	0.59	0.96

<a href="#">GO:2000243</a>	positive regulation of reproductive process	0.246 %	-1.3765	0.78	0.74
<a href="#">GO:2000242</a>	negative regulation of reproductive process	0.220 %	-2.1290	0.72	0.54
<a href="#">GO:0048497</a>	maintenance of floral organ identity	0.026 %	-2.3658	0.57	0.76
<a href="#">GO:0010431</a>	seed maturation	0.272 %	-1.0311	0.73	0.70
<a href="#">GO:2000034</a>	regulation of seed maturation	0.060 %	-2.0363	0.65	0.83
<a href="#">GO:2000033</a>	regulation of seed dormancy process	0.039 %	-1.1467	0.65	0.90
<a href="#">GO:1903888</a>	regulation of plant epidermal cell differentiation	0.009 %	-1.7248	0.67	0.71
<a href="#">GO:0010454</a>	negative regulation of cell fate commitment	0.022 %	-1.9782	0.59	0.91
<a href="#">GO:1902039</a>	negative regulation of seed dormancy process	0.009 %	-1.4048	0.63	0.82
<a href="#">GO:0048838</a>	release of seed from dormancy	0.009 %	-1.2404	0.78	0.65
<a href="#">GO:2000113</a>	negative regulation of cellular macromolecule biosynthetic process	1.256 %	-1.3723	0.67	0.94
<a href="#">GO:0045595</a>	regulation of cell differentiation	0.250 %	-1.3139	0.62	0.62
<a href="#">GO:0009787</a>	regulation of abscisic acid-activated signaling pathway	0.350 %	-1.9400	0.63	0.93
<a href="#">GO:0009788</a>	negative regulation of abscisic acid-activated signaling pathway	0.160 %	-2.9053	0.58	0.73
<a href="#">GO:1903507</a>	negative regulation of nucleic acid-templated transcription	1.057 %	-1.6969	0.67	0.98
<a href="#">GO:0040034</a>	regulation of development, heterochronic	0.224 %	-1.0589	0.71	0.62
<a href="#">GO:0009892</a>	negative regulation of metabolic process	2.352 %	-1.1130	0.71	0.86
<a href="#">GO:0009890</a>	negative regulation of biosynthetic process	1.450 %	-1.2662	0.70	0.90
<a href="#">GO:0090700</a>	maintenance of plant organ identity	0.026 %	-2.3658	0.58	0.92
<a href="#">GO:0051094</a>	positive regulation of developmental process	0.436 %	-2.9911	0.68	0.55
<a href="#">GO:0051093</a>	negative regulation of developmental process	0.492 %	-3.0628	0.62	0.71
<a href="#">GO:0009968</a>	negative regulation of signal transduction	0.332 %	-2.4696	0.61	0.93
<a href="#">GO:0009966</a>	regulation of signal transduction	1.109 %	-1.4955	0.65	0.87
<a href="#">GO:0080154</a>	regulation of fertilization	0.047 %	-1.8995	0.77	0.65
<a href="#">GO:0080155</a>	regulation of double fertilization forming a zygote and endosperm	0.030 %	-1.8995	0.78	0.79
<a href="#">GO:0009939</a>	positive regulation of gibberellic acid mediated signaling pathway	0.026 %	-1.1976	0.68	0.64
<a href="#">GO:0009910</a>	negative regulation of flower development	0.164 %	-1.4540	0.57	0.89
<a href="#">GO:0009909</a>	regulation of flower development	0.609 %	-1.2683	0.60	0.80
<a href="#">GO:1901420</a>	negative regulation of response to alcohol	0.160 %	-2.9053	0.67	0.88
<a href="#">GO:0051172</a>	negative regulation of nitrogen compound metabolic process	1.433 %	-1.2662	0.71	0.89
<a href="#">GO:0009991</a>	response to extracellular stimulus	<b>0.777 %</b>	<b>-1.3090</b>	<b>0.89</b>	<b>0.48</b>
<a href="#">GO:0042221</a>	response to chemical	<b>12.434 %</b>	<b>-2.2676</b>	<b>0.87</b>	<b>0.48</b>
<a href="#">GO:0019605</a>	butyrate metabolic process	0.009 %	-1.2883	0.83	0.49
<a href="#">GO:0019379</a>	sulfate assimilation, phosphoadenylyl sulfate reduction by phosphoadenylyl-sulfate reductase (thioredoxin)	0.004 %	-1.8995	0.84	0.49
<a href="#">GO:0043481</a>	anthocyanin accumulation in tissues in response to UV light	0.017 %	-2.9312	0.77	0.49
<a href="#">GO:0010224</a>	response to UV-B	0.298 %	-1.7723	0.89	0.75
<a href="#">GO:0043478</a>	pigment accumulation in response to UV light	0.017 %	-2.9312	0.83	0.97
<a href="#">GO:0043480</a>	pigment accumulation in tissues	0.017 %	-2.9312	0.78	0.97
<a href="#">GO:0043479</a>	pigment accumulation in tissues in response to UV light	0.017 %	-2.9312	0.77	1.00
<a href="#">GO:0043476</a>	pigment accumulation	0.022 %	-2.9312	0.84	0.99
<a href="#">GO:1901419</a>	regulation of response to alcohol	0.350 %	-1.9400	0.73	0.49

Biological Process (238) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 12

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000003</a>	reproduction	6.655 %		-1.7315	1.00	0.00
<a href="#">GO:0002376</a>	immune system process	1.532 %		-1.4322	0.99	0.00
<a href="#">GO:0006184</a>	(obsolete) GTP catabolic process	0.562 %		-2.0041	0.99	0.00
<a href="#">GO:0006884</a>	cell volume homeostasis	0.009 %		-6.2084	0.83	0.00
<a href="#">GO:0009992</a>	cellular water homeostasis	0.004 %		-6.3001	0.84	0.71
<a href="#">GO:0032535</a>	regulation of cellular component size	0.319 %		-2.5373	0.80	0.90
<a href="#">GO:0008361</a>	regulation of cell size	0.099 %		-3.3205	0.81	0.70
<a href="#">GO:0009813</a>	flavonoid biosynthetic process	0.332 %		-3.7257	0.91	0.00
<a href="#">GO:0031540</a>	regulation of anthocyanin biosynthetic process	0.052 %		-1.1072	0.80	0.90
<a href="#">GO:0009718</a>	anthocyanin-containing compound biosynthetic process	0.121 %		-3.8259	0.84	0.88
<a href="#">GO:0009963</a>	positive regulation of flavonoid biosynthetic process	0.039 %		-1.3280	0.85	0.81
<a href="#">GO:0009962</a>	regulation of flavonoid biosynthetic process	0.095 %		-1.8160	0.85	0.86
<a href="#">GO:0046283</a>	anthocyanin-containing compound metabolic process	0.190 %		-2.9659	0.85	0.91
<a href="#">GO:0023052</a>	signaling	8.908 %		-2.7236	0.99	0.00
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %		-2.0236	0.99	0.00
<a href="#">GO:0040007</a>	growth	2.529 %		-2.4503	0.99	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-1.6907	1.00	0.00



<a href="#">GO:0044706</a>	<b>multi-multicellular organism process</b>	<b>1.075 %</b>	<b>-3.4026</b>	<b>0.84</b>	<b>0.00</b>
<a href="#">GO:0044703</a>	<i>multi-organism reproductive process</i>	1.610 %	-3.2514	0.89	0.76
<a href="#">GO:0051703</a>	<i>intraspecies interaction between organisms</i>	0.026 %	-2.4829	0.95	0.51
<a href="#">GO:0016032</a>	<i>viral process</i>	0.315 %	-1.9330	0.92	0.64
<a href="#">GO:0048544</a>	<i>recognition of pollen</i>	0.211 %	-3.4539	0.76	0.84
<a href="#">GO:0044764</a>	<i>multi-organism cellular process</i>	0.414 %	-1.5513	0.92	0.65
<a href="#">GO:0010483</a>	<i>pollen tube reception</i>	0.026 %	-2.4829	0.86	0.51
<a href="#">GO:0044419</a>	<i>interspecies interaction between organisms</i>	0.423 %	-2.0524	0.94	0.66
<a href="#">GO:0009875</a>	<i>pollen-pistil interaction</i>	0.237 %	-3.4375	0.80	0.85
<a href="#">GO:0009856</a>	<i>pollination</i>	1.075 %	-3.4026	0.82	0.76
<a href="#">GO:0044403</a>	<i>symbiosis, encompassing mutualism through parasitism</i>	0.406 %	-2.1354	0.94	0.97
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-2.9393</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0051704</a>	<b>multi-organism process</b>	<b>3.362 %</b>	<b>-4.8720</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0065007</a>	<b>biological regulation</b>	<b>28.554 %</b>	<b>-1.9968</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0070588</a>	<b>calcium ion transmembrane transport</b>	<b>0.246 %</b>	<b>-1.2607</b>	<b>0.94</b>	<b>0.00</b>
<a href="#">GO:0006790</a>	<b>sulfur compound metabolic process</b>	<b>1.420 %</b>	<b>-1.2262</b>	<b>0.94</b>	<b>0.05</b>
<a href="#">GO:0006032</a>	<b>chitin catabolic process</b>	<b>0.073 %</b>	<b>-2.8064</b>	<b>0.86</b>	<b>0.06</b>
<a href="#">GO:0046348</a>	<i>amino sugar catabolic process</i>	0.073 %	-2.8064	0.88	0.91
<a href="#">GO:1901071</a>	<i>glucosamine-containing compound metabolic process</i>	0.078 %	-2.7130	0.91	0.91
<a href="#">GO:1901072</a>	<i>glucosamine-containing compound catabolic process</i>	0.073 %	-2.8064	0.88	1.00
<a href="#">GO:0006030</a>	<i>chitin metabolic process</i>	0.073 %	-2.7821	0.89	0.99
<a href="#">GO:0006026</a>	<i>aminoglycan catabolic process</i>	0.073 %	-2.8064	0.87	0.98
<a href="#">GO:0009812</a>	<b>flavonoid metabolic process</b>	<b>0.414 %</b>	<b>-3.0976</b>	<b>0.96</b>	<b>0.06</b>
<a href="#">GO:0007154</a>	<b>cell communication</b>	<b>9.698 %</b>	<b>-4.1993</b>	<b>0.96</b>	<b>0.07</b>
<a href="#">GO:0009311</a>	<b>oligosaccharide metabolic process</b>	<b>0.466 %</b>	<b>-4.8842</b>	<b>0.80</b>	<b>0.07</b>
<a href="#">GO:0044723</a>	<i>single-organism carbohydrate metabolic process</i>	2.283 %	-2.1459	0.78	0.64
<a href="#">GO:0046351</a>	<i>disaccharide biosynthetic process</i>	0.155 %	-1.4725	0.77	0.87
<a href="#">GO:0046352</a>	<i>disaccharide catabolic process</i>	0.035 %	-1.1246	0.77	0.91
<a href="#">GO:0016052</a>	<i>carbohydrate catabolic process</i>	1.187 %	-1.3674	0.85	0.71
<a href="#">GO:0000272</a>	<i>polysaccharide catabolic process</i>	0.777 %	-1.5243	0.83	0.82
<a href="#">GO:0051275</a>	<i>beta-glucan catabolic process</i>	0.112 %	-1.0444	0.82	0.90
<a href="#">GO:0044247</a>	<i>cellular polysaccharide catabolic process</i>	0.229 %	-2.8025	0.81	0.74
<a href="#">GO:0044275</a>	<i>cellular carbohydrate catabolic process</i>	0.298 %	-3.4383	0.83	0.52
<a href="#">GO:0044262</a>	<i>cellular carbohydrate metabolic process</i>	1.817 %	-1.3499	0.85	0.75
<a href="#">GO:0030245</a>	<i>cellulose catabolic process</i>	0.112 %	-1.0444	0.82	0.90
<a href="#">GO:0045489</a>	<i>pectin biosynthetic process</i>	0.190 %	-1.3356	0.78	0.63
<a href="#">GO:0000023</a>	<i>maltose metabolic process</i>	0.017 %	-2.6699	0.82	0.54
<a href="#">GO:0000024</a>	<i>maltose biosynthetic process</i>	0.004 %	-1.2997	0.82	0.89
<a href="#">GO:0009251</a>	<i>glucan catabolic process</i>	0.229 %	-2.8025	0.84	0.79
<a href="#">GO:0000025</a>	<i>maltose catabolic process</i>	0.009 %	-1.8290	0.80	0.75
<a href="#">GO:0006109</a>	<i>regulation of carbohydrate metabolic process</i>	0.199 %	-1.2640	0.81	0.50
<a href="#">GO:0009312</a>	<i>oligosaccharide biosynthetic process</i>	0.255 %	-1.2953	0.78	0.90
<a href="#">GO:0005976</a>	<i>polysaccharide metabolic process</i>	1.899 %	-1.0441	0.86	0.75
<a href="#">GO:0005984</a>	<i>disaccharide metabolic process</i>	0.285 %	-1.9317	0.77	0.74
<a href="#">GO:0005983</a>	<i>starch catabolic process</i>	0.073 %	-2.1791	0.83	0.87
<a href="#">GO:0005982</a>	<i>starch metabolic process</i>	0.268 %	-1.2506	0.84	0.67
<a href="#">GO:0005975</a>	<b>carbohydrate metabolic process</b>	<b>4.670 %</b>	<b>-3.3400</b>	<b>0.95</b>	<b>0.10</b>
<a href="#">GO:0007568</a>	<b>aging</b>	<b>0.544 %</b>	<b>-2.1281</b>	<b>0.85</b>	<b>0.10</b>
<a href="#">GO:0007166</a>	<b>cell surface receptor signaling pathway</b>	<b>1.204 %</b>	<b>-5.7099</b>	<b>0.72</b>	<b>0.13</b>
<a href="#">GO:0044700</a>	<i>single organism signaling</i>	8.899 %	-2.7293	0.87	0.91
<a href="#">GO:0035556</a>	<i>intracellular signal transduction</i>	3.112 %	-2.5514	0.69	0.56
<a href="#">GO:0007165</a>	<i>signal transduction</i>	8.731 %	-2.7676	0.66	0.75
<a href="#">GO:0008037</a>	<b>cell recognition</b>	<b>0.220 %</b>	<b>-3.4430</b>	<b>0.90</b>	<b>0.15</b>
<a href="#">GO:0010117</a>	<b>photoprotection</b>	<b>0.026 %</b>	<b>-3.0002</b>	<b>0.90</b>	<b>0.16</b>
<a href="#">GO:0009786</a>	<b>regulation of asymmetric cell division</b>	<b>0.017 %</b>	<b>-1.5816</b>	<b>0.87</b>	<b>0.18</b>
<a href="#">GO:0009804</a>	<b>coumarin metabolic process</b>	<b>0.017 %</b>	<b>-1.1818</b>	<b>0.87</b>	<b>0.20</b>
<a href="#">GO:0009611</a>	<b>response to wounding</b>	<b>0.816 %</b>	<b>-4.4082</b>	<b>0.85</b>	<b>0.22</b>
<a href="#">GO:1901698</a>	<b>response to nitrogen compound</b>	<b>1.174 %</b>	<b>-3.4834</b>	<b>0.84</b>	<b>0.23</b>
<a href="#">GO:0042127</a>	<b>regulation of cell proliferation</b>	<b>0.293 %</b>	<b>-1.2087</b>	<b>0.86</b>	<b>0.23</b>
<a href="#">GO:0046148</a>	<b>pigment biosynthetic process</b>	<b>0.639 %</b>	<b>-2.5686</b>	<b>0.86</b>	<b>0.27</b>
<a href="#">GO:0051707</a>	<b>response to other organism</b>	<b>4.968 %</b>	<b>-3.6696</b>	<b>0.81</b>	<b>0.27</b>
<a href="#">GO:0043207</a>	<i>response to external biotic stimulus</i>	4.981 %	-3.6696	0.81	0.94
<a href="#">GO:0080027</a>	<i>response to herbivore</i>	0.043 %	-1.0825	0.87	0.53
<a href="#">GO:0050832</a>	<i>defense response to fungus</i>	2.236 %	-1.5334	0.79	0.84
<a href="#">GO:0009620</a>	<i>response to fungus</i>	2.521 %	-1.9608	0.82	0.85
<a href="#">GO:0009615</a>	<i>response to virus</i>	0.337 %	-2.4073	0.85	0.66
<a href="#">GO:0098542</a>	<i>defense response to other organism</i>	4.044 %	-1.5889	0.78	0.92
<a href="#">GO:0009682</a>	<i>induced systemic resistance</i>	0.125 %	-1.6190	0.82	0.73
<a href="#">GO:0002213</a>	<i>defense response to insect</i>	0.069 %	-2.7236	0.84	0.55
<a href="#">GO:0045087</a>	<i>innate immune response</i>	1.364 %	-1.6603	0.80	0.91
<a href="#">GO:0009814</a>	<i>defense response, incompatible interaction</i>	0.725 %	-2.0432	0.80	0.72
<a href="#">GO:0009817</a>	<i>defense response to fungus, incompatible interaction</i>	0.207 %	-2.2031	0.82	0.76

<a href="#">GO:0009861</a>	<i>jasmonic acid and ethylene-dependent systemic resistance</i>	0.052 %	-1.0372	0.83	0.54
<a href="#">GO:0006955</a>	<i>immune response</i>	1.398 %	-1.6083	0.84	0.96
<a href="#">GO:0042440</a>	<b>pigment metabolic process</b>	<b>0.785 %</b>	<b>-2.1600</b>	<b>0.88</b>	<b>0.28</b>
<a href="#">GO:0046482</a>	<b>para-aminobenzoic acid metabolic process</b>	<b>0.017 %</b>	<b>-2.3734</b>	<b>0.86</b>	<b>0.28</b>
<a href="#">GO:0018874</a>	<i>benzoate metabolic process</i>	0.009 %	-1.2028	0.87	0.70
<a href="#">GO:0035264</a>	<b>multicellular organism growth</b>	<b>0.013 %</b>	<b>-3.2952</b>	<b>0.85</b>	<b>0.29</b>
<a href="#">GO:0016049</a>	<i>cell growth</i>	1.519 %	-1.3523	0.84	0.86
<a href="#">GO:0048589</a>	<i>developmental growth</i>	1.623 %	-2.8882	0.81	0.55
<a href="#">GO:0060560</a>	<i>developmental growth involved in morphogenesis</i>	1.157 %	-1.3477	0.80	0.90
<a href="#">GO:0046620</a>	<i>regulation of organ growth</i>	0.082 %	-1.0825	0.76	0.86
<a href="#">GO:0046622</a>	<i>positive regulation of organ growth</i>	0.017 %	-1.4653	0.78	0.81
<a href="#">GO:0009826</a>	<i>unidimensional cell growth</i>	1.010 %	-1.5677	0.75	0.82
<a href="#">GO:0048639</a>	<i>positive regulation of developmental growth</i>	0.026 %	-1.4653	0.79	0.58
<a href="#">GO:0006351</a>	<b>transcription, DNA-templated</b>	<b>11.709 %</b>	<b>-1.1646</b>	<b>0.87</b>	<b>0.29</b>
<a href="#">GO:0032774</a>	<i>RNA biosynthetic process</i>	11.813 %	-1.1646	0.87	0.83
<a href="#">GO:0097659</a>	<i>nucleic acid-templated transcription</i>	11.761 %	-1.1646	0.87	0.88
<a href="#">GO:0033306</a>	<b>phytol metabolic process</b>	<b>0.030 %</b>	<b>-1.6708</b>	<b>0.87</b>	<b>0.29</b>
<a href="#">GO:1903173</a>	<i>fatty alcohol metabolic process</i>	0.030 %	-1.6708	0.88	0.65
<a href="#">GO:0033037</a>	<b>polysaccharide localization</b>	<b>0.168 %</b>	<b>-1.1841</b>	<b>0.95</b>	<b>0.30</b>
<a href="#">GO:0048530</a>	<b>fruit morphogenesis</b>	<b>0.035 %</b>	<b>-1.5081</b>	<b>0.81</b>	<b>0.31</b>
<a href="#">GO:0042538</a>	<b>hyperosmotic salinity response</b>	<b>0.220 %</b>	<b>-2.4687</b>	<b>0.85</b>	<b>0.32</b>
<a href="#">GO:0071475</a>	<i>cellular hyperosmotic salinity response</i>	0.009 %	-1.2138	0.85	0.77
<a href="#">GO:0071474</a>	<i>cellular hyperosmotic response</i>	0.013 %	-1.2138	0.84	0.79
<a href="#">GO:0006972</a>	<i>hyperosmotic response</i>	0.263 %	-2.2385	0.85	0.60
<a href="#">GO:0009607</a>	<b>response to biotic stimulus</b>	<b>5.158 %</b>	<b>-3.5663</b>	<b>0.85</b>	<b>0.33</b>
<a href="#">GO:0009605</a>	<b>response to external stimulus</b>	<b>6.366 %</b>	<b>-2.8363</b>	<b>0.84</b>	<b>0.35</b>
<a href="#">GO:0090066</a>	<b>regulation of anatomical structure size</b>	<b>0.319 %</b>	<b>-2.5373</b>	<b>0.89</b>	<b>0.35</b>
<a href="#">GO:0055081</a>	<i>anion homeostasis</i>	0.199 %	-1.6832	0.88	0.68
<a href="#">GO:0055082</a>	<i>cellular chemical homeostasis</i>	0.902 %	-2.1305	0.79	0.80
<a href="#">GO:0042592</a>	<i>homeostatic process</i>	2.637 %	-2.4734	0.87	0.56
<a href="#">GO:0019725</a>	<i>cellular homeostasis</i>	1.549 %	-2.4841	0.78	0.68
<a href="#">GO:0048878</a>	<i>chemical homeostasis</i>	1.765 %	-2.1768	0.86	0.86
<a href="#">GO:0042430</a>	<b>indole-containing compound metabolic process</b>	<b>0.384 %</b>	<b>-1.8717</b>	<b>0.91</b>	<b>0.35</b>
<a href="#">GO:0031347</a>	<b>regulation of defense response</b>	<b>0.971 %</b>	<b>-1.6572</b>	<b>0.75</b>	<b>0.36</b>
<a href="#">GO:0031348</a>	<i>negative regulation of defense response</i>	0.203 %	-1.2118	0.75	0.78
<a href="#">GO:0048585</a>	<i>negative regulation of response to stimulus</i>	0.699 %	-1.0108	0.77	0.75
<a href="#">GO:2000068</a>	<i>regulation of defense response to insect</i>	0.013 %	-1.2250	0.80	0.63
<a href="#">GO:0009864</a>	<i>induced systemic resistance, jasmonic acid mediated signaling pathway</i>	0.047 %	-1.0231	0.68	0.69
<a href="#">GO:0080134</a>	<i>regulation of response to stress</i>	1.351 %	-1.4599	0.76	0.80
<a href="#">GO:0009939</a>	<i>positive regulation of gibberellic acid mediated signaling pathway</i>	0.026 %	-1.2997	0.73	0.56
<a href="#">GO:0050794</a>	<b>regulation of cellular process</b>	<b>22.244 %</b>	<b>-2.2515</b>	<b>0.84</b>	<b>0.36</b>
<a href="#">GO:0050789</a>	<i>regulation of biological process</i>	24.333 %	-2.1581	0.88	0.61
<a href="#">GO:0034599</a>	<b>cellular response to oxidative stress</b>	<b>0.453 %</b>	<b>-1.9955</b>	<b>0.78</b>	<b>0.37</b>
<a href="#">GO:0043619</a>	<i>regulation of transcription from RNA polymerase II promoter in response to oxidative stress</i>	0.004 %	-1.4862	0.76	0.50
<a href="#">GO:0043618</a>	<i>regulation of transcription from RNA polymerase II promoter in response to stress</i>	0.009 %	-1.2028	0.77	0.92
<a href="#">GO:0071369</a>	<i>cellular response to ethylene stimulus</i>	0.906 %	-1.5862	0.79	0.55
<a href="#">GO:0070301</a>	<i>cellular response to hydrogen peroxide</i>	0.035 %	-1.0163	0.81	0.76
<a href="#">GO:0009873</a>	<i>ethylene-activated signaling pathway</i>	0.811 %	-1.0890	0.68	0.91
<a href="#">GO:0034614</a>	<i>cellular response to reactive oxygen species</i>	0.207 %	-1.3243	0.79	0.67
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-2.5640</b>	<b>0.84</b>	<b>0.37</b>
<a href="#">GO:0080024</a>	<b>indolebutyric acid metabolic process</b>	<b>0.022 %</b>	<b>-1.0825</b>	<b>0.80</b>	<b>0.37</b>
<a href="#">GO:0051241</a>	<b>negative regulation of multicellular organismal process</b>	<b>0.445 %</b>	<b>-1.3902</b>	<b>0.75</b>	<b>0.39</b>
<a href="#">GO:2000692</a>	<i>negative regulation of seed maturation</i>	0.017 %	-1.3280	0.75	0.82
<a href="#">GO:0097438</a>	<i>exit from dormancy</i>	0.009 %	-1.3429	0.87	0.70
<a href="#">GO:2000033</a>	<i>regulation of seed dormancy process</i>	0.039 %	-1.2484	0.75	0.90
<a href="#">GO:1902039</a>	<i>negative regulation of seed dormancy process</i>	0.009 %	-1.5081	0.75	0.52
<a href="#">GO:0048838</a>	<i>release of seed from dormancy</i>	0.009 %	-1.3429	0.83	0.70
<a href="#">GO:0051093</a>	<i>negative regulation of developmental process</i>	0.492 %	-1.2533	0.77	0.59
<a href="#">GO:0006979</a>	<b>response to oxidative stress</b>	<b>1.908 %</b>	<b>-1.5060</b>	<b>0.83</b>	<b>0.39</b>
<a href="#">GO:0010243</a>	<b>response to organonitrogen compound</b>	<b>0.768 %</b>	<b>-3.8498</b>	<b>0.83</b>	<b>0.39</b>
<a href="#">GO:0071230</a>	<i>cellular response to amino acid stimulus</i>	0.095 %	-1.1922	0.81	0.74
<a href="#">GO:0010200</a>	<i>response to chitin</i>	0.544 %	-3.8066	0.82	0.87
<a href="#">GO:0040009</a>	<b>regulation of growth rate</b>	<b>0.013 %</b>	<b>-1.5312</b>	<b>0.90</b>	<b>0.40</b>
<a href="#">GO:0065008</a>	<b>regulation of biological quality</b>	<b>5.991 %</b>	<b>-2.0506</b>	<b>0.89</b>	<b>0.41</b>
<a href="#">GO:0030104</a>	<b>water homeostasis</b>	<b>0.052 %</b>	<b>-4.6610</b>	<b>0.89</b>	<b>0.42</b>
<a href="#">GO:0055062</a>	<i>phosphate ion homeostasis</i>	0.078 %	-2.2144	0.88	0.54
<a href="#">GO:0072506</a>	<i>trivalent inorganic anion homeostasis</i>	0.078 %	-2.2144	0.88	0.87
<a href="#">GO:0042221</a>	<b>response to chemical</b>	<b>12.434 %</b>	<b>-2.4164</b>	<b>0.83</b>	<b>0.43</b>
<a href="#">GO:0006434</a>	<b>seryl-tRNA aminoacylation</b>	<b>0.009 %</b>	<b>-2.0829</b>	<b>0.86</b>	<b>0.43</b>
<a href="#">GO:1901565</a>	<b>organonitrogen compound catabolic process</b>	<b>0.811 %</b>	<b>-1.3093</b>	<b>0.88</b>	<b>0.43</b>
<a href="#">GO:0009057</a>	<i>macromolecule catabolic process</i>	5.050 %	-1.1044	0.89	0.62

<a href="#">GO:0019722</a>	<b>calcium-mediated signaling</b>	<b>0.302 %</b>	<b>-2.0516</b>	<b>0.75</b>	<b>0.44</b>
<a href="#">GO:0019932</a>	<i>second-messenger-mediated signaling</i>	0.319 %	-1.7017	0.75	0.58
<a href="#">GO:0000160</a>	<i>phosphorelay signal transduction system</i>	1.049 %	-1.0487	0.72	0.65
<a href="#">GO:0043620</a>	<b>regulation of DNA-templated transcription in response to stress</b>	<b>0.013 %</b>	<b>-1.1158</b>	<b>0.77</b>	<b>0.44</b>
<a href="#">GO:0019432</a>	<b>triglyceride biosynthetic process</b>	<b>0.104 %</b>	<b>-1.1522</b>	<b>0.84</b>	<b>0.44</b>
<a href="#">GO:0046463</a>	<i>acylglycerol biosynthetic process</i>	0.117 %	-1.1158	0.84	0.99
<a href="#">GO:0046460</a>	<i>neutral lipid biosynthetic process</i>	0.117 %	-1.1158	0.84	0.96
<a href="#">GO:0006022</a>	<b>aminoglycan metabolic process</b>	<b>0.086 %</b>	<b>-2.6699</b>	<b>0.91</b>	<b>0.46</b>
<a href="#">GO:0009751</a>	<b>response to salicylic acid</b>	<b>0.876 %</b>	<b>-3.3451</b>	<b>0.82</b>	<b>0.47</b>
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	6.504 %	-4.2690	0.81	0.64
<a href="#">GO:0097305</a>	<i>response to alcohol</i>	2.469 %	-1.6608	0.81	0.64
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-4.2245	0.80	0.70
<a href="#">GO:0001101</a>	<i>response to acid chemical</i>	5.011 %	-4.9785	0.81	0.51
<a href="#">GO:0009753</a>	<i>response to jasmonic acid</i>	0.919 %	-1.1880	0.82	0.63
<a href="#">GO:0009737</a>	<i>response to abscisic acid</i>	2.443 %	-1.6748	0.80	0.71
<a href="#">GO:0009725</a>	<i>response to hormone</i>	6.871 %	-1.7607	0.79	0.82
<a href="#">GO:0009723</a>	<i>response to ethylene</i>	1.269 %	-1.2305	0.82	0.53
<a href="#">GO:0009414</a>	<i>response to water deprivation</i>	1.390 %	-1.8387	0.79	0.63
<a href="#">GO:0009415</a>	<i>response to water</i>	1.416 %	-1.7974	0.81	0.74
<a href="#">GO:0014070</a>	<i>response to organic cyclic compound</i>	1.606 %	-1.8542	0.82	0.51
<a href="#">GO:0071495</a>	<i>cellular response to endogenous stimulus</i>	3.988 %	-1.1517	0.82	0.64
<a href="#">GO:0022414</a>	<b>reproductive process</b>	<b>6.629 %</b>	<b>-1.7443</b>	<b>0.91</b>	<b>0.47</b>
<a href="#">GO:0044702</a>	<i>single organism reproductive process</i>	5.939 %	-1.2732	0.84	0.91
<a href="#">GO:1900030</a>	<b>regulation of pectin biosynthetic process</b>	<b>0.004 %</b>	<b>-1.8290</b>	<b>0.78</b>	<b>0.48</b>
<a href="#">GO:0006040</a>	<b>amino sugar metabolic process</b>	<b>0.138 %</b>	<b>-2.4032</b>	<b>0.93</b>	<b>0.48</b>
<a href="#">GO:0019760</a>	<i>glucosinolate metabolic process</i>	0.514 %	-2.1162	0.80	0.60
<a href="#">GO:0019757</a>	<i>glycosinolate metabolic process</i>	0.514 %	-2.1162	0.80	0.99
<a href="#">GO:1901136</a>	<i>carbohydrate derivative catabolic process</i>	0.337 %	-2.3635	0.89	0.53
<a href="#">GO:1905393</a>	<b>plant organ formation</b>	<b>0.427 %</b>	<b>-1.2513</b>	<b>0.87</b>	<b>0.48</b>
<a href="#">GO:0010360</a>	<b>negative regulation of anion channel activity</b>	<b>0.017 %</b>	<b>-1.2250</b>	<b>0.85</b>	<b>0.49</b>
<a href="#">GO:0032410</a>	<i>negative regulation of transporter activity</i>	0.017 %	-1.2250	0.85	0.95
<a href="#">GO:0032413</a>	<i>negative regulation of ion transmembrane transporter activity</i>	0.017 %	-1.2250	0.85	1.00
<a href="#">GO:1903792</a>	<i>negative regulation of anion transport</i>	0.017 %	-1.2250	0.85	0.95
<a href="#">GO:0034763</a>	<i>negative regulation of transmembrane transport</i>	0.017 %	-1.2250	0.85	0.95
<a href="#">GO:0034766</a>	<i>negative regulation of ion transmembrane transport</i>	0.017 %	-1.2250	0.85	1.00
<a href="#">GO:1903960</a>	<i>negative regulation of anion transmembrane transport</i>	0.017 %	-1.2250	0.85	1.00
<a href="#">GO:0099402</a>	<b>plant organ development</b>	<b>3.763 %</b>	<b>-2.9390</b>	<b>0.77</b>	<b>0.49</b>
<a href="#">GO:0048528</a>	<i>post-embryonic root development</i>	0.501 %	-2.3734	0.78	0.93
<a href="#">GO:0048527</a>	<i>lateral root development</i>	0.457 %	-2.6589	0.78	0.56
<a href="#">GO:2000280</a>	<i>regulation of root development</i>	0.229 %	-1.4589	0.74	0.68
<a href="#">GO:0022622</a>	<i>root system development</i>	1.895 %	-1.5000	0.79	0.67
<a href="#">GO:0010150</a>	<i>leaf senescence</i>	0.462 %	-2.6452	0.78	0.59
<a href="#">GO:0048464</a>	<i>flower calyx development</i>	0.022 %	-1.1717	0.81	0.63
<a href="#">GO:0048465</a>	<i>corolla development</i>	0.065 %	-1.9768	0.80	0.68
<a href="#">GO:0048442</a>	<i>sepal development</i>	0.022 %	-1.1717	0.81	0.63
<a href="#">GO:0048441</a>	<i>petal development</i>	0.065 %	-1.9768	0.79	0.61
<a href="#">GO:0048448</a>	<i>stamen morphogenesis</i>	0.047 %	-1.1246	0.78	0.76
<a href="#">GO:0048446</a>	<i>petal morphogenesis</i>	0.026 %	-1.2484	0.79	0.94
<a href="#">GO:0048451</a>	<i>petal formation</i>	0.009 %	-1.4653	0.80	0.88
<a href="#">GO:0009653</a>	<i>anatomical structure morphogenesis</i>	3.500 %	-1.3704	0.86	0.57
<a href="#">GO:1900056</a>	<i>negative regulation of leaf senescence</i>	0.043 %	-2.4663	0.74	0.82
<a href="#">GO:1900055</a>	<i>regulation of leaf senescence</i>	0.104 %	-2.2900	0.74	0.87
<a href="#">GO:2000024</a>	<i>regulation of leaf development</i>	0.224 %	-1.9948	0.73	0.74
<a href="#">GO:0048830</a>	<i>adventitious root development</i>	0.022 %	-1.6093	0.83	0.56
<a href="#">GO:0048827</a>	<i>phyllome development</i>	1.921 %	-1.9660	0.77	0.71
<a href="#">GO:0048367</a>	<i>shoot system development</i>	3.599 %	-1.3235	0.77	0.74
<a href="#">GO:0048366</a>	<i>leaf development</i>	1.368 %	-2.3640	0.77	0.80
<a href="#">GO:0048364</a>	<i>root development</i>	1.886 %	-1.5129	0.77	0.83
<a href="#">GO:0090693</a>	<i>plant organ senescence</i>	0.462 %	-2.6418	0.79	0.96
<a href="#">GO:0090696</a>	<i>post-embryonic plant organ development</i>	0.686 %	-2.5951	0.79	0.61
<a href="#">GO:0048731</a>	<i>system development</i>	7.225 %	-1.4442	0.78	0.69
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-1.7843</b>	<b>0.83</b>	<b>0.49</b>
<a href="#">GO:0006952</a>	<b>defense response</b>	<b>6.090 %</b>	<b>-1.9137</b>	<b>0.81</b>	<b>0.50</b>
<a href="#">GO:0051716</a>	<b>cellular response to stimulus</b>	<b>12.637 %</b>	<b>-1.5062</b>	<b>0.81</b>	<b>0.50</b>
<a href="#">GO:0010398</a>	<b>xylogalacturonan metabolic process</b>	<b>0.004 %</b>	<b>-1.5312</b>	<b>0.90</b>	<b>0.50</b>
<a href="#">GO:0052544</a>	<b>defense response by callose deposition in cell wall</b>	<b>0.069 %</b>	<b>-1.3703</b>	<b>0.75</b>	<b>0.50</b>
<a href="#">GO:0010215</a>	<i>cellulose microfibril organization</i>	0.073 %	-1.1619	0.87	0.50
<a href="#">GO:0070726</a>	<i>cell wall assembly</i>	0.082 %	-1.0444	0.93	0.65
<a href="#">GO:0052386</a>	<i>cell wall thickening</i>	0.134 %	-1.1994	0.93	0.74
<a href="#">GO:0052545</a>	<i>callose localization</i>	0.155 %	-1.1841	0.93	0.93

GO:0052542	defense response by callose deposition	0.091 %	-1.2640	0.81	0.95
GO:0052543	callose deposition in cell wall	0.117 %	-1.2882	0.88	0.96
GO:0072599	establishment of protein localization to endoplasmic reticulum	0.121 %	-1.1336	0.94	0.90
GO:0071668	plant-type cell wall assembly	0.082 %	-1.0444	0.93	0.99
GO:0006613	cotranslational protein targeting to membrane	0.091 %	-1.2733	0.84	0.90
GO:0045047	protein targeting to ER	0.121 %	-1.1336	0.93	0.97
GO:0006614	SRP-dependent cotranslational protein targeting to membrane	0.078 %	-1.2733	0.84	0.52
GO:0052482	defense response by cell wall thickening	0.069 %	-1.3703	0.79	0.91

Biological Process (304) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 13

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0002376</a>	immune system process	1.532 %		-1.1401	0.99	0.00
<a href="#">GO:0006200</a>	(obsolete) ATP catabolic process	0.562 %		-1.2670	0.99	0.00
<a href="#">GO:0010200</a>	response to chitin	0.544 %		-8.1196	0.81	0.00
<a href="#">GO:0071229</a>	cellular response to acid chemical	2.158 %		-2.4748	0.74	0.79
<a href="#">GO:1901701</a>	cellular response to oxygen-containing compound	2.788 %		-1.6601	0.73	0.82
<a href="#">GO:1901700</a>	response to oxygen-containing compound	6.504 %		-6.8400	0.79	0.61
<a href="#">GO:0097305</a>	response to alcohol	2.469 %		-3.4871	0.79	0.65
<a href="#">GO:0097306</a>	cellular response to alcohol	1.170 %		-1.5210	0.74	0.88
<a href="#">GO:0032870</a>	cellular response to hormone stimulus	3.871 %		-4.1557	0.72	0.57
<a href="#">GO:0071215</a>	cellular response to abscisic acid stimulus	1.170 %		-1.5210	0.74	0.88
<a href="#">GO:0033993</a>	response to lipid	3.267 %		-3.4617	0.79	0.67
<a href="#">GO:0009642</a>	response to light intensity	0.587 %		-1.0555	0.84	0.79
<a href="#">GO:0009644</a>	response to high light intensity	0.324 %		-1.4682	0.84	0.74
<a href="#">GO:0070887</a>	cellular response to chemical stimulus	5.287 %		-3.1701	0.74	0.64
<a href="#">GO:0071369</a>	cellular response to ethylene stimulus	0.906 %		-2.5709	0.75	0.91
<a href="#">GO:0071395</a>	cellular response to jasmonic acid stimulus	0.337 %		-2.7911	0.77	0.69

<a href="#">GO:0071310</a>	cellular response to organic substance	4.601 %	-3.3195	0.72	0.88
<a href="#">GO:0010033</a>	response to organic substance	8.580 %	-6.7593	0.78	0.70
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-5.1630	0.79	0.64
<a href="#">GO:0009755</a>	hormone-mediated signaling pathway	3.617 %	-2.4106	0.57	0.94
<a href="#">GO:0009753</a>	response to jasmonic acid	0.919 %	-2.5995	0.80	0.63
<a href="#">GO:0009751</a>	response to salicylic acid	0.876 %	-2.0943	0.80	0.63
<a href="#">GO:0009266</a>	response to temperature stimulus	2.287 %	-2.7890	0.82	0.58
<a href="#">GO:0009737</a>	response to abscisic acid	2.443 %	-3.5093	0.78	0.72
<a href="#">GO:0009725</a>	response to hormone	6.871 %	-5.2854	0.76	0.82
<a href="#">GO:0009723</a>	response to ethylene	1.269 %	-2.6717	0.80	0.65
<a href="#">GO:0009314</a>	response to radiation	2.892 %	-1.8775	0.82	0.65
<a href="#">GO:0071446</a>	cellular response to salicylic acid stimulus	0.242 %	-1.9269	0.77	0.76
<a href="#">GO:0009867</a>	jasmonic acid mediated signaling pathway	0.319 %	-1.9232	0.65	0.81
<a href="#">GO:0009863</a>	salicylic acid mediated signaling pathway	0.211 %	-1.1878	0.66	0.79
<a href="#">GO:0009864</a>	induced systemic resistance, jasmonic acid mediated signaling pathway	0.047 %	-1.0644	0.61	0.85
<a href="#">GO:0009873</a>	ethylene-activated signaling pathway	0.811 %	-3.0344	0.63	0.77
<a href="#">GO:0006970</a>	response to osmotic stress	2.512 %	-1.1534	0.80	0.64
<a href="#">GO:0009414</a>	response to water deprivation	1.390 %	-3.9629	0.76	0.54
<a href="#">GO:0009415</a>	response to water	1.416 %	-3.8949	0.77	0.74
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %	-1.9233	0.81	0.63
<a href="#">GO:0010243</a>	response to organonitrogen compound	0.768 %	-6.8980	0.81	0.87
<a href="#">GO:0014070</a>	response to organic cyclic compound	1.606 %	-2.0785	0.81	0.61
<a href="#">GO:0071495</a>	cellular response to endogenous stimulus	3.988 %	-4.0445	0.81	0.75
<a href="#">GO:0019953</a>	<b>sexual reproduction</b>	<b>0.596 %</b>	<b>-1.6355</b>	<b>0.95</b>	<b>0.00</b>
<a href="#">GO:0007276</a>	gamete generation	0.203 %	-1.3799	0.90	0.81
<a href="#">GO:0022412</a>	cellular process involved in reproduction in multicellular organism	0.177 %	-1.4567	0.87	0.79
<a href="#">GO:1902579</a>	multi-organism localization	0.052 %	-1.2037	0.91	0.52
<a href="#">GO:0048235</a>	pollen sperm cell differentiation	0.147 %	-1.6665	0.84	0.70
<a href="#">GO:0048232</a>	male gamete generation	0.177 %	-1.5472	0.90	0.96
<a href="#">GO:0023052</a>	<b>signaling</b>	<b>8.908 %</b>	<b>-1.6985</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0032502</a>	<b>developmental process</b>	<b>12.689 %</b>	<b>-1.0161</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0035264</a>	<b>multicellular organism growth</b>	<b>0.013 %</b>	<b>-5.4374</b>	<b>0.93</b>	<b>0.00</b>
<a href="#">GO:0048589</a>	developmental growth	1.623 %	-1.1674	0.91	0.55
<a href="#">GO:0045893</a>	<b>positive regulation of transcription, DNA-templated</b>	<b>1.864 %</b>	<b>-3.8665</b>	<b>0.64</b>	<b>0.00</b>
<a href="#">GO:0032774</a>	RNA biosynthetic process	11.813 %	-4.6489	0.73	0.82
<a href="#">GO:0048522</a>	positive regulation of cellular process	3.582 %	-1.8940	0.74	0.87
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %	-4.2531	0.69	0.82
<a href="#">GO:0031323</a>	regulation of cellular metabolic process	13.906 %	-4.2727	0.67	0.80
<a href="#">GO:1902680</a>	positive regulation of RNA biosynthetic process	1.869 %	-3.8665	0.64	0.97
<a href="#">GO:0031328</a>	positive regulation of cellular biosynthetic process	2.102 %	-3.4620	0.67	0.97
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %	-5.5799	0.63	0.87
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %	-3.0924	0.69	0.95
<a href="#">GO:0051252</a>	regulation of RNA metabolic process	11.463 %	-4.5532	0.62	0.87
<a href="#">GO:2001141</a>	regulation of RNA biosynthetic process	11.282 %	-4.7100	0.59	0.88
<a href="#">GO:0019219</a>	regulation of nucleobase-containing compound metabolic process	11.700 %	-4.3378	0.63	0.84
<a href="#">GO:0051254</a>	positive regulation of RNA metabolic process	1.912 %	-3.8665	0.66	0.96
<a href="#">GO:0045935</a>	positive regulation of nucleobase-containing compound metabolic process	2.007 %	-3.7482	0.67	0.96
<a href="#">GO:0010628</a>	positive regulation of gene expression	2.050 %	-3.6552	0.70	0.90
<a href="#">GO:0006355</a>	regulation of transcription, DNA-templated	11.234 %	-4.7100	0.59	0.76
<a href="#">GO:0006351</a>	transcription, DNA-templated	11.709 %	-4.6489	0.72	0.87
<a href="#">GO:0019222</a>	regulation of metabolic process	14.847 %	-3.4991	0.75	0.54
<a href="#">GO:0050794</a>	regulation of cellular process	22.244 %	-2.7315	0.73	0.63
<a href="#">GO:0050789</a>	regulation of biological process	24.333 %	-2.5516	0.79	0.54
<a href="#">GO:0010604</a>	positive regulation of macromolecule metabolic process	2.672 %	-3.1640	0.70	0.92
<a href="#">GO:0010556</a>	regulation of macromolecule biosynthetic process	12.076 %	-5.0531	0.63	0.87
<a href="#">GO:0010557</a>	positive regulation of macromolecule biosynthetic process	2.007 %	-3.5974	0.67	0.95
<a href="#">GO:0010468</a>	regulation of gene expression	12.706 %	-3.9239	0.67	0.80
<a href="#">GO:2000112</a>	regulation of cellular macromolecule biosynthetic process	12.003 %	-5.0749	0.61	0.86
<a href="#">GO:0060255</a>	regulation of macromolecule metabolic process	14.091 %	-3.6789	0.67	0.83
<a href="#">GO:1903508</a>	positive regulation of nucleic acid-templated transcription	1.869 %	-3.8665	0.64	0.98
<a href="#">GO:1903506</a>	regulation of nucleic acid-templated transcription	11.282 %	-4.7100	0.59	0.89
<a href="#">GO:0097659</a>	nucleic acid-templated transcription	11.761 %	-4.6489	0.73	0.88
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-2.8643	0.72	0.79
<a href="#">GO:0009891</a>	positive regulation of biosynthetic process	2.145 %	-3.4236	0.69	0.89
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-5.4116	0.66	0.54
<a href="#">GO:0051173</a>	positive regulation of nitrogen compound metabolic process	2.119 %	-3.4951	0.71	0.88
<a href="#">GO:0034654</a>	nucleobase-containing compound biosynthetic process	13.056 %	-3.7891	0.75	0.80
<a href="#">GO:0051171</a>	regulation of nitrogen compound metabolic process	12.430 %	-4.0516	0.68	0.80

<a href="#">GO:0050896</a>	response to stimulus	25.943 %	-4.7279	1.00	0.00
<a href="#">GO:0051704</a>	multi-organism process	3.362 %	-3.5740	0.99	0.00
<a href="#">GO:0065007</a>	biological regulation	28.554 %	-2.1532	1.00	0.00
<a href="#">GO:1901804</a>	beta-glucoside metabolic process	0.009 %	-1.6244	0.90	0.06
<i>GO:1901038</i>	<i>cyanidin 3-O-glucoside metabolic process</i>	<i>0.004 %</i>	<i>-1.6244</i>	<i>0.90</i>	<i>0.89</i>
<a href="#">GO:0071554</a>	cell wall organization or biogenesis	3.168 %	-1.5475	0.94	0.06
<a href="#">GO:0007154</a>	cell communication	9.698 %	-1.8234	0.94	0.08
<a href="#">GO:0009058</a>	biosynthetic process	24.432 %	-1.3965	0.92	0.09
<a href="#">GO:0044262</a>	cellular carbohydrate metabolic process	1.817 %	-2.6302	0.82	0.10
<i>GO:0016051</i>	<i>carbohydrate biosynthetic process</i>	<i>1.442 %</i>	<i>-2.0215</i>	<i>0.73</i>	<i>0.71</i>
<i>GO:0044247</i>	<i>cellular polysaccharide catabolic process</i>	<i>0.229 %</i>	<i>-1.7401</i>	<i>0.80</i>	<i>0.87</i>
<i>GO:0044275</i>	<i>cellular carbohydrate catabolic process</i>	<i>0.298 %</i>	<i>-1.4328</i>	<i>0.82</i>	<i>0.75</i>
<i>GO:0044264</i>	<i>cellular polysaccharide metabolic process</i>	<i>1.187 %</i>	<i>-2.2991</i>	<i>0.79</i>	<i>0.86</i>
<i>GO:0044042</i>	<i>glucan metabolic process</i>	<i>0.962 %</i>	<i>-2.8017</i>	<i>0.82</i>	<i>0.83</i>
<i>GO:0030244</i>	<i>cellulose biosynthetic process</i>	<i>0.216 %</i>	<i>-1.2072</i>	<i>0.71</i>	<i>0.85</i>
<i>GO:0030243</i>	<i>cellulose metabolic process</i>	<i>0.337 %</i>	<i>-1.0456</i>	<i>0.80</i>	<i>0.93</i>
<i>GO:0045489</i>	<i>pectin biosynthetic process</i>	<i>0.190 %</i>	<i>-2.4244</i>	<i>0.75</i>	<i>0.71</i>
<i>GO:0045488</i>	<i>pectin metabolic process</i>	<i>0.647 %</i>	<i>-1.5256</i>	<i>0.83</i>	<i>0.88</i>
<i>GO:0009251</i>	<i>glucan catabolic process</i>	<i>0.229 %</i>	<i>-1.7401</i>	<i>0.82</i>	<i>0.86</i>
<i>GO:0010393</i>	<i>galacturonan metabolic process</i>	<i>0.652 %</i>	<i>-1.5060</i>	<i>0.83</i>	<i>0.80</i>
<i>GO:0009311</i>	<i>oligosaccharide metabolic process</i>	<i>0.466 %</i>	<i>-1.4822</i>	<i>0.80</i>	<i>0.77</i>
<i>GO:0006073</i>	<i>cellular glucan metabolic process</i>	<i>0.937 %</i>	<i>-2.8017</i>	<i>0.79</i>	<i>0.67</i>
<i>GO:0010411</i>	<i>xyloglucan metabolic process</i>	<i>0.259 %</i>	<i>-1.9053</i>	<i>0.80</i>	<i>0.87</i>
<i>GO:0010410</i>	<i>hemicellulose metabolic process</i>	<i>0.423 %</i>	<i>-1.2570</i>	<i>0.80</i>	<i>0.92</i>
<i>GO:0034637</i>	<i>cellular carbohydrate biosynthetic process</i>	<i>0.915 %</i>	<i>-1.8706</i>	<i>0.71</i>	<i>0.84</i>
<i>GO:0005976</i>	<i>polysaccharide metabolic process</i>	<i>1.899 %</i>	<i>-2.2320</i>	<i>0.83</i>	<i>0.73</i>
<i>GO:0005983</i>	<i>starch catabolic process</i>	<i>0.073 %</i>	<i>-2.2628</i>	<i>0.81</i>	<i>0.77</i>
<i>GO:0005982</i>	<i>starch metabolic process</i>	<i>0.268 %</i>	<i>-1.3274</i>	<i>0.81</i>	<i>0.87</i>
<a href="#">GO:0051865</a>	protein autoubiquitination	0.056 %	-1.1082	0.91	0.12
<a href="#">GO:0072660</a>	maintenance of protein location in plasma membrane	0.004 %	-3.2582	0.75	0.13
<i>GO:0090002</i>	<i>establishment of protein localization to plasma membrane</i>	<i>0.013 %</i>	<i>-2.6561</i>	<i>0.81</i>	<i>1.00</i>
<i>GO:0044765</i>	<i>single-organism transport</i>	<i>5.287 %</i>	<i>-1.7263</i>	<i>0.83</i>	<i>0.71</i>
<i>GO:1902582</i>	<i>single-organism intracellular transport</i>	<i>0.790 %</i>	<i>-1.7074</i>	<i>0.83</i>	<i>0.64</i>
<i>GO:0044802</i>	<i>single-organism membrane organization</i>	<i>0.919 %</i>	<i>-1.1201</i>	<i>0.84</i>	<i>0.69</i>
<i>GO:0072661</i>	<i>protein targeting to plasma membrane</i>	<i>0.013 %</i>	<i>-2.6561</i>	<i>0.81</i>	<i>0.94</i>
<i>GO:0032507</i>	<i>maintenance of protein location in cell</i>	<i>0.078 %</i>	<i>-2.1649</i>	<i>0.73</i>	<i>0.83</i>
<i>GO:0072657</i>	<i>protein localization to membrane</i>	<i>0.259 %</i>	<i>-1.6884</i>	<i>0.78</i>	<i>0.88</i>
<i>GO:0072658</i>	<i>maintenance of protein location in membrane</i>	<i>0.004 %</i>	<i>-3.2582</i>	<i>0.76</i>	<i>0.71</i>
<i>GO:0072659</i>	<i>protein localization to plasma membrane</i>	<i>0.013 %</i>	<i>-2.6561</i>	<i>0.81</i>	<i>0.94</i>
<i>GO:0006605</i>	<i>protein targeting</i>	<i>1.006 %</i>	<i>-1.2900</i>	<i>0.88</i>	<i>0.78</i>
<i>GO:0006612</i>	<i>protein targeting to membrane</i>	<i>0.168 %</i>	<i>-1.8485</i>	<i>0.78</i>	<i>0.96</i>
<i>GO:0007009</i>	<i>plasma membrane organization</i>	<i>0.022 %</i>	<i>-2.5846</i>	<i>0.88</i>	<i>0.62</i>
<i>GO:1902580</i>	<i>single-organism cellular localization</i>	<i>0.842 %</i>	<i>-1.6665</i>	<i>0.84</i>	<i>0.71</i>
<i>GO:0090150</i>	<i>establishment of protein localization to membrane</i>	<i>0.259 %</i>	<i>-1.6884</i>	<i>0.78</i>	<i>0.88</i>
<i>GO:0051651</i>	<i>maintenance of location in cell</i>	<i>0.155 %</i>	<i>-1.9354</i>	<i>0.72</i>	<i>0.85</i>
<i>GO:0045185</i>	<i>maintenance of protein location</i>	<i>0.078 %</i>	<i>-2.0245</i>	<i>0.79</i>	<i>0.67</i>
<a href="#">GO:0045730</a>	respiratory burst	0.013 %	-1.1575	0.91	0.15
<a href="#">GO:0050826</a>	response to freezing	0.086 %	-5.4463	0.85	0.16
<i>GO:0070417</i>	<i>cellular response to cold</i>	<i>0.147 %</i>	<i>-1.6884</i>	<i>0.79</i>	<i>0.69</i>
<i>GO:0009409</i>	<i>response to cold</i>	<i>1.580 %</i>	<i>-3.5108</i>	<i>0.81</i>	<i>0.66</i>
<i>GO:0071497</i>	<i>cellular response to freezing</i>	<i>0.013 %</i>	<i>-3.1850</i>	<i>0.83</i>	<i>0.51</i>
<a href="#">GO:0018874</a>	benzoate metabolic process	0.009 %	-1.2448	0.86	0.17
<i>GO:0046482</i>	<i>para-aminobenzoic acid metabolic process</i>	<i>0.017 %</i>	<i>-1.0785</i>	<i>0.85</i>	<i>0.70</i>
<a href="#">GO:0009827</a>	plant-type cell wall modification	0.095 %	-1.9746	0.93	0.21
<i>GO:0042545</i>	<i>cell wall modification</i>	<i>0.561 %</i>	<i>-1.4054</i>	<i>0.92</i>	<i>0.60</i>
<a href="#">GO:0010467</a>	gene expression	18.304 %	-2.0130	0.88	0.21
<a href="#">GO:0065008</a>	regulation of biological quality	5.991 %	-1.3775	0.83	0.26
<a href="#">GO:2000280</a>	regulation of root development	0.229 %	-1.5380	0.80	0.27
<i>GO:0048509</i>	<i>regulation of meristem development</i>	<i>0.445 %</i>	<i>-1.3367</i>	<i>0.82</i>	<i>0.78</i>
<i>GO:0048510</i>	<i>regulation of timing of transition from vegetative to reproductive phase</i>	<i>0.164 %</i>	<i>-1.5070</i>	<i>0.83</i>	<i>0.57</i>
<i>GO:0048506</i>	<i>regulation of timing of meristematic phase transition</i>	<i>0.164 %</i>	<i>-1.5070</i>	<i>0.83</i>	<i>0.95</i>
<i>GO:0031348</i>	<i>negative regulation of defense response</i>	<i>0.203 %</i>	<i>-1.2881</i>	<i>0.69</i>	<i>0.70</i>
<i>GO:0048586</i>	<i>regulation of long-day photoperiodism, flowering</i>	<i>0.086 %</i>	<i>-1.0575</i>	<i>0.69</i>	<i>0.90</i>
<i>GO:0048579</i>	<i>negative regulation of long-day photoperiodism, flowering</i>	<i>0.039 %</i>	<i>-1.4006</i>	<i>0.67</i>	<i>0.57</i>
<i>GO:0010480</i>	<i>microsporocyte differentiation</i>	<i>0.244 %</i>	<i>-1.1488</i>	<i>0.86</i>	<i>0.52</i>
<i>GO:0040034</i>	<i>regulation of development, heterochronic</i>	<i>0.224 %</i>	<i>-1.3174</i>	<i>0.84</i>	<i>0.59</i>
<a href="#">GO:0010036</a>	response to boron-containing substance	0.022 %	-1.1488	0.87	0.27
<a href="#">GO:0000160</a>	phosphorelay signal transduction system	1.049 %	-2.9469	0.67	0.27
<i>GO:0044700</i>	<i>single organism signaling</i>	<i>8.899 %</i>	<i>-1.7010</i>	<i>0.90</i>	<i>0.91</i>
<i>GO:0035556</i>	<i>intracellular signal transduction</i>	<i>3.112 %</i>	<i>-1.4209</i>	<i>0.63</i>	<i>0.55</i>
<i>GO:0007165</i>	<i>signal transduction</i>	<i>8.731 %</i>	<i>-1.7171</i>	<i>0.58</i>	<i>0.75</i>

<a href="#">GO:0010256</a>	endomembrane system organization	0.311 %	-1.2945	0.93	0.28
<a href="#">GO:0000288</a>	nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay	0.164 %	-2.3875	0.84	0.28
<a href="#">GO:0000289</a>	nuclear-transcribed mRNA poly(A) tail shortening	0.043 %	-2.3875	0.86	0.81
<a href="#">GO:0000956</a>	nuclear-transcribed mRNA catabolic process	0.306 %	-1.6884	0.83	0.93
<a href="#">GO:0006402</a>	mRNA catabolic process	0.345 %	-1.6348	0.83	0.96
<a href="#">GO:0006401</a>	RNA catabolic process	0.397 %	-1.5426	0.83	0.86
<a href="#">GO:0034655</a>	nucleobase-containing compound catabolic process	0.561 %	-1.3585	0.84	0.90
<a href="#">GO:0006470</a>	protein dephosphorylation	0.811 %	-1.0369	0.88	0.29
<a href="#">GO:0048519</a>	negative regulation of biological process	3.716 %	-1.4270	0.82	0.29
<a href="#">GO:0010440</a>	stomatal lineage progression	0.069 %	-1.2341	0.87	0.30
<a href="#">GO:0010117</a>	photoprotection	0.026 %	-4.9827	0.87	0.30
<a href="#">GO:0009268</a>	response to pH	0.030 %	-2.9696	0.88	0.31
<a href="#">GO:0019747</a>	regulation of isoprenoid metabolic process	0.099 %	-1.4508	0.74	0.32
<a href="#">GO:0019287</a>	isopentenyl diphosphate biosynthetic process, mevalonate pathway	0.039 %	-1.4006	0.81	0.64
<a href="#">GO:0016104</a>	triterpenoid biosynthetic process	0.030 %	-1.1006	0.82	0.63
<a href="#">GO:0016114</a>	terpenoid biosynthetic process	0.591 %	-1.0032	0.77	0.78
<a href="#">GO:0009240</a>	isopentenyl diphosphate biosynthetic process	0.091 %	-1.1846	0.80	0.94
<a href="#">GO:0010371</a>	regulation of gibberellin biosynthetic process	0.039 %	-1.5507	0.73	0.81
<a href="#">GO:0006084</a>	acetyl-CoA metabolic process	0.108 %	-1.1240	0.91	0.88
<a href="#">GO:0010540</a>	basipetal auxin transport	0.078 %	-2.4244	0.76	0.32
<a href="#">GO:0060918</a>	auxin transport	0.406 %	-1.5557	0.73	0.97
<a href="#">GO:0080024</a>	indolebutyric acid metabolic process	0.022 %	-1.1240	0.76	0.71
<a href="#">GO:0032350</a>	regulation of hormone metabolic process	0.073 %	-1.1575	0.78	0.67
<a href="#">GO:0010600</a>	regulation of auxin biosynthetic process	0.052 %	-1.5079	0.74	0.60
<a href="#">GO:0046885</a>	regulation of hormone biosynthetic process	0.065 %	-1.2786	0.73	0.97
<a href="#">GO:0010541</a>	acropetal auxin transport	0.013 %	-1.0187	0.79	0.70
<a href="#">GO:0090354</a>	regulation of auxin metabolic process	0.056 %	-1.3154	0.76	0.96
<a href="#">GO:0010315</a>	auxin efflux	0.086 %	-1.0442	0.59	0.86
<a href="#">GO:0009850</a>	auxin metabolic process	0.332 %	-1.4730	0.78	0.80
<a href="#">GO:0009926</a>	auxin polar transport	0.337 %	-1.6522	0.73	0.85
<a href="#">GO:0042445</a>	hormone metabolic process	0.695 %	-1.0240	0.79	0.86
<a href="#">GO:0009914</a>	hormone transport	0.436 %	-1.5355	0.73	0.71
<a href="#">GO:0098542</a>	defense response to other organism	4.044 %	-4.8089	0.78	0.33
<a href="#">GO:0043207</a>	response to external biotic stimulus	4.981 %	-4.8024	0.81	0.94
<a href="#">GO:0051707</a>	response to other organism	4.968 %	-4.8024	0.81	0.92
<a href="#">GO:0080027</a>	response to herbivore	0.043 %	-1.1240	0.87	0.52
<a href="#">GO:0050832</a>	defense response to fungus	2.236 %	-3.7695	0.79	0.81
<a href="#">GO:0009620</a>	response to fungus	2.521 %	-3.4538	0.82	0.83
<a href="#">GO:0009617</a>	response to bacterium	1.748 %	-1.5202	0.83	0.79
<a href="#">GO:0009991</a>	response to extracellular stimulus	0.777 %	-1.2773	0.84	0.64
<a href="#">GO:0002213</a>	defense response to insect	0.069 %	-2.8475	0.85	0.54
<a href="#">GO:0033554</a>	cellular response to stress	3.772 %	-1.0296	0.76	0.52
<a href="#">GO:0006952</a>	defense response	6.090 %	-4.8734	0.81	0.56
<a href="#">GO:0042742</a>	defense response to bacterium	1.476 %	-1.4186	0.80	0.77
<a href="#">GO:0055046</a>	microgametogenesis	0.216 %	-1.4367	0.92	0.33
<a href="#">GO:0048518</a>	positive regulation of biological process	4.398 %	-1.2396	0.81	0.33
<a href="#">GO:0016192</a>	vesicle-mediated transport	1.964 %	-1.3773	0.91	0.34
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.6432	0.86	0.54
<a href="#">GO:0009719</a>	response to endogenous stimulus	7.359 %	-7.5202	0.83	0.34
<a href="#">GO:0048533</a>	sporocyte differentiation	0.004 %	-1.1488	0.90	0.35
<a href="#">GO:0090305</a>	nucleic acid phosphodiester bond hydrolysis	3.276 %	-1.6939	0.83	0.35
<a href="#">GO:0016070</a>	RNA metabolic process	17.562 %	-4.1126	0.78	0.51
<a href="#">GO:0009059</a>	macromolecule biosynthetic process	17.035 %	-1.6173	0.80	0.64
<a href="#">GO:0044249</a>	cellular biosynthetic process	22.844 %	-1.5957	0.79	0.66
<a href="#">GO:0044271</a>	cellular nitrogen compound biosynthetic process	17.018 %	-1.8120	0.77	0.64
<a href="#">GO:1901576</a>	organic substance biosynthetic process	22.969 %	-1.0235	0.81	0.72
<a href="#">GO:0019438</a>	aromatic compound biosynthetic process	14.247 %	-2.5885	0.77	0.60
<a href="#">GO:0018130</a>	heterocycle biosynthetic process	14.014 %	-3.0074	0.78	0.61
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-2.7438	0.80	0.60
<a href="#">GO:0034645</a>	cellular macromolecule biosynthetic process	16.737 %	-1.8411	0.76	0.61
<a href="#">GO:0009607</a>	response to biotic stimulus	5.158 %	-5.2543	0.84	0.36
<a href="#">GO:0042538</a>	hyperosmotic salinity response	0.220 %	-3.6111	0.84	0.36
<a href="#">GO:0071470</a>	cellular response to osmotic stress	0.207 %	-1.4367	0.79	0.58
<a href="#">GO:0071475</a>	cellular hyperosmotic salinity response	0.009 %	-1.2557	0.83	0.77
<a href="#">GO:0071474</a>	cellular hyperosmotic response	0.013 %	-1.2557	0.82	0.79
<a href="#">GO:0006972</a>	hyperosmotic response	0.263 %	-3.3128	0.84	0.60
<a href="#">GO:0010148</a>	transpiration	0.026 %	-2.0596	0.88	0.36
<a href="#">GO:0006833</a>	water transport	0.194 %	-1.7829	0.87	0.86
<a href="#">GO:0016071</a>	mRNA metabolic process	2.145 %	-1.2620	0.83	0.37
<a href="#">GO:0055062</a>	phosphate ion homeostasis	0.078 %	-2.2982	0.85	0.37
<a href="#">GO:0055081</a>	anion homeostasis	0.199 %	-1.7642	0.84	0.64



<a href="#">GO:0072506</a>	<i>trivalent inorganic anion homeostasis</i>	0.078 %	-2.2982	0.85	0.87
<a href="#">GO:0045229</a>	<b>external encapsulating structure organization</b>	<b>2.577 %</b>	<b>-1.1319</b>	<b>0.92</b>	<b>0.37</b>
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-4.6259	0.84	0.37
<a href="#">GO:1901698</a>	response to nitrogen compound	1.174 %	-5.3721	0.82	0.38
<a href="#">GO:0070301</a>	cellular response to hydrogen peroxide	0.035 %	-1.0575	0.79	0.39
<a href="#">GO:0080169</a>	cellular response to boron-containing substance deprivation	0.004 %	-1.7136	0.81	0.39
<a href="#">GO:0033273</a>	<i>response to vitamin</i>	0.026 %	-1.3419	0.85	0.90
<a href="#">GO:0080029</a>	<i>cellular response to boron-containing substance levels</i>	0.017 %	-1.1488	0.81	0.90
<a href="#">GO:0033591</a>	<i>response to L-ascorbic acid</i>	0.017 %	-1.5507	0.83	0.54
<a href="#">GO:0015770</a>	<b>sucrose transport</b>	<b>0.086 %</b>	<b>-1.8266</b>	<b>0.87</b>	<b>0.39</b>
<a href="#">GO:0015772</a>	<i>oligosaccharide transport</i>	0.091 %	-1.8266	0.87	0.72
<a href="#">GO:0015766</a>	<i>disaccharide transport</i>	0.091 %	-1.8266	0.87	1.00
<a href="#">GO:0034219</a>	<i>carbohydrate transmembrane transport</i>	0.332 %	-1.6244	0.86	0.79
<a href="#">GO:0048354</a>	<b>muclilage biosynthetic process involved in seed coat development</b>	<b>0.056 %</b>	<b>-1.5079</b>	<b>0.84</b>	<b>0.40</b>
<a href="#">GO:1990778</a>	protein localization to cell periphery	0.022 %	-2.6561	0.91	0.41
<a href="#">GO:1900030</a>	<b>regulation of pectin biosynthetic process</b>	<b>0.004 %</b>	<b>-1.8720</b>	<b>0.73</b>	<b>0.42</b>
<a href="#">GO:0032885</a>	<i>regulation of polysaccharide biosynthetic process</i>	0.043 %	-1.0187	0.70	0.80
<a href="#">GO:0002679</a>	<b>respiratory burst involved in defense response</b>	<b>0.009 %</b>	<b>-1.3703</b>	<b>0.80</b>	<b>0.42</b>
<a href="#">GO:0009611</a>	response to wounding	0.816 %	-3.1485	0.85	0.42
<a href="#">GO:0042044</a>	fluid transport	0.194 %	-1.7829	0.87	0.42
<a href="#">GO:0061024</a>	membrane organization	0.997 %	-1.0500	0.93	0.42
<a href="#">GO:0042221</a>	response to chemical	12.434 %	-6.0234	0.82	0.43
<a href="#">GO:0080034</a>	host response to induction by symbiont of tumor, nodule or growth in host	0.004 %	-1.4167	0.89	0.43
<a href="#">GO:0016137</a>	glycoside metabolic process	0.017 %	-1.0312	0.90	0.43
<a href="#">GO:0051708</a>	intracellular protein transport in other organism involved in symbiotic interaction	0.004 %	-1.4167	0.90	0.43
<a href="#">GO:0010185</a>	<b>regulation of cellular defense response</b>	<b>0.013 %</b>	<b>-3.2582</b>	<b>0.78</b>	<b>0.43</b>
<a href="#">GO:0051245</a>	<i>negative regulation of cellular defense response</i>	0.004 %	-3.2582	0.76	0.89
<a href="#">GO:0009626</a>	<i>plant-type hypersensitive response</i>	0.341 %	-1.5611	0.70	0.86
<a href="#">GO:0060548</a>	<i>negative regulation of cell death</i>	0.112 %	-1.5113	0.74	0.82
<a href="#">GO:0043069</a>	<i>negative regulation of programmed cell death</i>	0.082 %	-1.7401	0.74	0.84
<a href="#">GO:0043067</a>	<i>regulation of programmed cell death</i>	0.216 %	-1.2945	0.77	0.90
<a href="#">GO:0050776</a>	<i>regulation of immune response</i>	0.419 %	-1.5060	0.72	0.98
<a href="#">GO:0010941</a>	<i>regulation of cell death</i>	0.298 %	-1.0864	0.77	0.74
<a href="#">GO:0002682</a>	<i>regulation of immune system process</i>	0.453 %	-1.4273	0.83	0.64
<a href="#">GO:0010363</a>	<i>regulation of plant-type hypersensitive response</i>	0.060 %	-2.4290	0.66	0.56
<a href="#">GO:0045088</a>	<i>regulation of innate immune response</i>	0.397 %	-1.5481	0.70	0.84
<a href="#">GO:0002252</a>	<i>immune effector process</i>	0.268 %	-1.2850	0.96	0.73
<a href="#">GO:0034050</a>	<i>host programmed cell death induced by symbiont</i>	0.345 %	-1.5113	0.87	0.90
<a href="#">GO:0080135</a>	<i>regulation of cellular response to stress</i>	0.250 %	-1.7401	0.69	0.63
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-3.0194</b>	<b>0.83</b>	<b>0.43</b>
<a href="#">GO:0010225</a>	response to UV-C	0.043 %	-1.2557	0.87	0.44
<a href="#">GO:0016126</a>	sterol biosynthetic process	0.168 %	-1.0714	0.81	0.44
<a href="#">GO:2000113</a>	<b>negative regulation of cellular macromolecule biosynthetic process</b>	<b>1.256 %</b>	<b>-2.6232</b>	<b>0.65</b>	<b>0.45</b>
<a href="#">GO:0048523</a>	<i>negative regulation of cellular process</i>	2.719 %	-2.1695	0.73	0.79
<a href="#">GO:0060964</a>	<i>regulation of gene silencing by miRNA</i>	0.039 %	-1.4508	0.71	0.69
<a href="#">GO:0060966</a>	<i>regulation of gene silencing by RNA</i>	0.056 %	-1.3028	0.73	0.82
<a href="#">GO:0031324</a>	<i>negative regulation of cellular metabolic process</i>	1.929 %	-2.0722	0.68	0.91
<a href="#">GO:1902679</a>	<i>negative regulation of RNA biosynthetic process</i>	1.057 %	-2.2966	0.64	0.99
<a href="#">GO:0031327</a>	<i>negative regulation of cellular biosynthetic process</i>	1.429 %	-2.4986	0.66	0.98
<a href="#">GO:0051253</a>	<i>negative regulation of RNA metabolic process</i>	1.062 %	-2.2867	0.66	0.96
<a href="#">GO:0048585</a>	<i>negative regulation of response to stimulus</i>	0.699 %	-1.1099	0.68	0.68
<a href="#">GO:0045934</a>	<i>negative regulation of nucleobase-containing compound metabolic process</i>	1.139 %	-2.1512	0.67	0.87
<a href="#">GO:0045892</a>	<i>negative regulation of transcription, DNA-templated</i>	0.958 %	-2.2966	0.64	0.94
<a href="#">GO:0010629</a>	<i>negative regulation of gene expression</i>	1.601 %	-2.1974	0.69	0.88
<a href="#">GO:0010605</a>	<i>negative regulation of macromolecule metabolic process</i>	2.171 %	-1.9628	0.68	0.94
<a href="#">GO:0060147</a>	<i>regulation of posttranscriptional gene silencing</i>	0.060 %	-1.2448	0.73	0.84
<a href="#">GO:0010558</a>	<i>negative regulation of macromolecule biosynthetic process</i>	1.355 %	-2.6232	0.66	0.96
<a href="#">GO:1903507</a>	<i>negative regulation of nucleic acid-templated transcription</i>	1.057 %	-2.2966	0.64	0.98
<a href="#">GO:0009892</a>	<i>negative regulation of metabolic process</i>	2.352 %	-1.7214	0.71	0.86
<a href="#">GO:0009890</a>	<i>negative regulation of biosynthetic process</i>	1.450 %	-2.4742	0.68	0.85
<a href="#">GO:0051172</a>	<i>negative regulation of nitrogen compound metabolic process</i>	1.433 %	-2.4742	0.70	0.86
<a href="#">GO:0006968</a>	<b>cellular defense response</b>	<b>0.022 %</b>	<b>-3.2582</b>	<b>0.88</b>	<b>0.45</b>
<a href="#">GO:1902583</a>	<b>multi-organism intracellular transport</b>	<b>0.009 %</b>	<b>-1.4167</b>	<b>0.89</b>	<b>0.45</b>
<a href="#">GO:0044766</a>	<i>multi-organism transport</i>	0.052 %	-1.2037	0.90	0.89
<a href="#">GO:1902581</a>	<i>multi-organism cellular localization</i>	0.009 %	-1.4167	0.90	0.81
<a href="#">GO:0030581</a>	<i>symbiont intracellular protein transport in host</i>	0.004 %	-1.4167	0.89	0.96
<a href="#">GO:0010817</a>	<b>regulation of hormone levels</b>	<b>1.109 %</b>	<b>-2.1737</b>	<b>0.82</b>	<b>0.45</b>
<a href="#">GO:0051235</a>	<i>maintenance of location</i>	0.302 %	-1.5611	0.79	0.51
<a href="#">GO:0000023</a>	<b>maltose metabolic process</b>	<b>0.017 %</b>	<b>-2.7551</b>	<b>0.81</b>	<b>0.46</b>
<a href="#">GO:0046351</a>	<i>disaccharide biosynthetic process</i>	0.155 %	-2.6377	0.74	0.77
<a href="#">GO:0000024</a>	<i>maltose biosynthetic process</i>	0.004 %	-2.9972	0.80	0.62
<a href="#">GO:0009312</a>	<i>oligosaccharide biosynthetic process</i>	0.255 %	-2.3614	0.76	0.86

<a href="#">GO:0005986</a>	<i>sucrose biosynthetic process</i>	0.056 %	-1.1082	0.76	0.85
<a href="#">GO:0005984</a>	<i>disaccharide metabolic process</i>	0.285 %	-2.0489	0.77	0.90
<a href="#">GO:0046490</a>	isopentenyl diphosphate metabolic process	0.091 %	-1.1846	0.85	0.48
<a href="#">GO:0015936</a>	coenzyme A metabolic process	0.052 %	-1.1488	0.82	0.48
<a href="#">GO:0006950</a>	response to stress	14.156 %	-4.7836	0.82	0.49
<a href="#">GO:0051716</a>	cellular response to stimulus	12.637 %	-2.6195	0.78	0.50

Biological Process (90) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 14

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006623</a>	<b>protein targeting to vacuole</b>	<b>0.155 %</b>		<b>-1.1711</b>	<b>0.94</b>	<b>0.00</b>
<a href="#">GO:0072666</a>	<i>establishment of protein localization to vacuole</i>	0.155 %		-1.1711	0.94	1.00
<a href="#">GO:0072665</a>	<i>protein localization to vacuole</i>	0.155 %		-1.1711	0.95	0.68
<a href="#">GO:0009827</a>	<b>plant-type cell wall modification</b>	<b>0.095 %</b>		<b>-4.3776</b>	<b>0.84</b>	<b>0.00</b>
<a href="#">GO:0042545</a>	<i>cell wall modification</i>	0.561 %		-2.3903	0.83	0.60
<a href="#">GO:0071555</a>	<i>cell wall organization</i>	2.430 %		-1.7653	0.82	0.81
<a href="#">GO:0071669</a>	<i>plant-type cell wall organization or biogenesis</i>	1.152 %		-1.7088	0.85	0.82
<a href="#">GO:0009830</a>	<i>cell wall modification involved in abscission</i>	0.013 %		-2.7131	0.73	0.80
<a href="#">GO:0009828</a>	<i>plant-type cell wall loosening</i>	0.022 %		-4.3729	0.85	0.67
<a href="#">GO:0009664</a>	<i>plant-type cell wall organization</i>	0.652 %		-2.5353	0.82	0.74
<a href="#">GO:0045488</a>	<b>pectin metabolic process</b>	<b>0.647 %</b>		<b>-5.0036</b>	<b>0.83</b>	<b>0.00</b>
<a href="#">GO:1901575</a>	<i>organic substance catabolic process</i>	7.402 %		-1.4558	0.83	0.83
<a href="#">GO:0016052</a>	<i>carbohydrate catabolic process</i>	1.187 %		-2.7805	0.80	0.62
<a href="#">GO:0000272</a>	<i>polysaccharide catabolic process</i>	0.777 %		-3.8737	0.79	0.79
<a href="#">GO:0005976</a>	<i>polysaccharide metabolic process</i>	1.899 %		-2.6607	0.83	0.70
<a href="#">GO:0009057</a>	<i>macromolecule catabolic process</i>	5.050 %		-1.9358	0.83	0.65
<a href="#">GO:0010393</a>	<i>galacturonan metabolic process</i>	0.652 %		-4.9664	0.84	0.77
<a href="#">GO:0045490</a>	<i>pectin catabolic process</i>	0.423 %		-5.4439	0.79	0.95
<a href="#">GO:0071456</a>	<b>cellular response to hypoxia</b>	<b>0.117 %</b>		<b>-2.5805</b>	<b>0.77</b>	<b>0.03</b>

<a href="#">GO:0071453</a>	cellular response to oxygen levels	0.129 %	-2.4974	0.79	0.87
<a href="#">GO:0036293</a>	response to decreased oxygen levels	0.281 %	-1.8174	0.84	0.99
<a href="#">GO:0036294</a>	cellular response to decreased oxygen levels	0.129 %	-2.4974	0.79	0.99
<a href="#">GO:0001666</a>	response to hypoxia	0.250 %	-1.8819	0.82	0.92
<a href="#">GO:0071554</a>	<b>cell wall organization or biogenesis</b>	<b>3.168 %</b>	<b>-1.1166</b>	<b>0.93</b>	<b>0.04</b>
<a href="#">GO:0051762</a>	<b>sesquiterpene biosynthetic process</b>	<b>0.009 %</b>	<b>-4.1162</b>	<b>0.72</b>	<b>0.06</b>
<a href="#">GO:0046246</a>	terpene biosynthetic process	0.043 %	-3.3476	0.69	0.86
<a href="#">GO:0051761</a>	sesquiterpene metabolic process	0.009 %	-4.1162	0.73	0.78
<a href="#">GO:0008299</a>	isoprenoid biosynthetic process	0.738 %	-1.4801	0.64	0.96
<a href="#">GO:0006720</a>	isoprenoid metabolic process	0.850 %	-1.3509	0.69	0.71
<a href="#">GO:0006721</a>	terpenoid metabolic process	0.699 %	-1.5038	0.67	0.94
<a href="#">GO:0006644</a>	phospholipid metabolic process	1.014 %	-1.6136	0.69	0.60
<a href="#">GO:0045338</a>	farnesyl diphosphate metabolic process	0.078 %	-3.4038	0.71	0.57
<a href="#">GO:0042214</a>	terpene metabolic process	0.065 %	-2.9730	0.72	0.65
<a href="#">GO:0016114</a>	terpenoid biosynthetic process	0.591 %	-1.6579	0.65	0.80
<a href="#">GO:0010047</a>	<b>fruit dehiscence</b>	<b>0.039 %</b>	<b>-1.3193</b>	<b>0.85</b>	<b>0.06</b>
<a href="#">GO:0009900</a>	dehiscence	0.095 %	-1.0627	0.85	0.69
<a href="#">GO:0009901</a>	anther dehiscence	0.069 %	-1.2820	0.82	0.92
<a href="#">GO:0048235</a>	pollen sperm cell differentiation	0.147 %	-1.0341	0.74	0.76
<a href="#">GO:0018958</a>	<b>phenol-containing compound metabolic process</b>	<b>0.190 %</b>	<b>-1.3666</b>	<b>0.86</b>	<b>0.06</b>
<a href="#">GO:0009056</a>	<b>catabolic process</b>	<b>8.118 %</b>	<b>-1.8973</b>	<b>0.93</b>	<b>0.07</b>
<a href="#">GO:0042744</a>	hydrogen peroxide catabolic process	0.380 %	-1.2340	0.84	0.07
<a href="#">GO:0005975</a>	carbohydrate metabolic process	4.670 %	-2.9103	0.91	0.10
<a href="#">GO:0006949</a>	syncytium formation	0.043 %	-3.1541	0.81	0.13
<a href="#">GO:0007267</a>	cell-cell signaling	0.371 %	-1.5333	0.80	0.17
<a href="#">GO:0019748</a>	secondary metabolic process	1.938 %	-2.2449	0.78	0.21
<a href="#">GO:0090344</a>	<b>negative regulation of cell aging</b>	<b>0.004 %</b>	<b>-2.2368</b>	<b>0.74</b>	<b>0.21</b>
<a href="#">GO:0090342</a>	regulation of cell aging	0.017 %	-1.5524	0.76	0.90
<a href="#">GO:0007569</a>	cell aging	0.022 %	-1.5427	0.79	0.56
<a href="#">GO:0009835</a>	fruit ripening	0.043 %	-1.5063	0.82	0.64
<a href="#">GO:0009910</a>	negative regulation of flower development	0.164 %	-1.0656	0.75	0.64
<a href="#">GO:0002215</a>	<b>defense response to nematode</b>	<b>0.013 %</b>	<b>-1.8312</b>	<b>0.88</b>	<b>0.21</b>
<a href="#">GO:0009806</a>	<b>lignan metabolic process</b>	<b>0.022 %</b>	<b>-1.9879</b>	<b>0.70</b>	<b>0.22</b>
<a href="#">GO:0010439</a>	regulation of glucosinolate biosynthetic process	0.026 %	-1.5723	0.60	0.78
<a href="#">GO:1900376</a>	regulation of secondary metabolite biosynthetic process	0.078 %	-1.1200	0.68	0.82
<a href="#">GO:0044550</a>	secondary metabolite biosynthetic process	1.183 %	-1.0552	0.67	0.80
<a href="#">GO:1901599</a>	(-)-pinosresinol biosynthetic process	0.009 %	-2.1912	0.67	0.59
<a href="#">GO:1901598</a>	(-)-pinosresinol metabolic process	0.009 %	-2.1123	0.68	0.90
<a href="#">GO:0019760</a>	glucosinolate metabolic process	0.514 %	-1.9727	0.64	0.56
<a href="#">GO:0019758</a>	glucosinolate biosynthetic process	0.194 %	-1.0341	0.63	1.00
<a href="#">GO:0010675</a>	regulation of cellular carbohydrate metabolic process	0.125 %	-1.1166	0.78	0.83
<a href="#">GO:0019757</a>	glucosinolate metabolic process	0.514 %	-1.9727	0.64	0.99
<a href="#">GO:0019761</a>	glucosinolate biosynthetic process	0.194 %	-1.0341	0.63	0.91
<a href="#">GO:0009698</a>	phenylpropanoid metabolic process	0.505 %	-1.1727	0.66	0.73
<a href="#">GO:0042762</a>	regulation of sulfur metabolic process	0.091 %	-1.2076	0.80	0.68
<a href="#">GO:0046189</a>	phenol-containing compound biosynthetic process	0.104 %	-1.3666	0.83	0.77
<a href="#">GO:0009807</a>	lignan biosynthetic process	0.022 %	-1.9879	0.67	0.95
<a href="#">GO:0046274</a>	lignin catabolic process	0.078 %	-1.2119	0.64	0.67
<a href="#">GO:0046271</a>	phenylpropanoid catabolic process	0.078 %	-1.1869	0.64	0.73
<a href="#">GO:0071695</a>	<b>anatomical structure maturation</b>	<b>0.043 %</b>	<b>-1.5063</b>	<b>0.86</b>	<b>0.24</b>
<a href="#">GO:0007568</a>	<b>aging</b>	<b>0.544 %</b>	<b>-1.0947</b>	<b>0.85</b>	<b>0.29</b>
<a href="#">GO:0009741</a>	response to brassinosteroid	0.410 %	-1.3925	0.90	0.30
<a href="#">GO:0045229</a>	external encapsulating structure organization	2.577 %	-1.5212	0.87	0.33
<a href="#">GO:0045824</a>	<b>negative regulation of innate immune response</b>	<b>0.060 %</b>	<b>-2.1499</b>	<b>0.76</b>	<b>0.36</b>
<a href="#">GO:0043069</a>	negative regulation of programmed cell death	0.082 %	-1.0717	0.74	0.84
<a href="#">GO:0050777</a>	negative regulation of immune response	0.065 %	-2.1499	0.77	0.98
<a href="#">GO:0002683</a>	negative regulation of immune system process	0.073 %	-2.0456	0.82	0.73
<a href="#">GO:0010204</a>	defense response signaling pathway, resistance gene-independent	0.052 %	-1.3029	0.71	0.74
<a href="#">GO:0010363</a>	regulation of plant-type hypersensitive response	0.060 %	-1.4198	0.66	0.74
<a href="#">GO:0080135</a>	regulation of cellular response to stress	0.250 %	-1.0717	0.77	0.63
<a href="#">GO:0009814</a>	defense response, incompatible interaction	0.725 %	-1.0590	0.81	0.69
<a href="#">GO:0034051</a>	negative regulation of plant-type hypersensitive response	0.022 %	-2.1912	0.65	0.93
<a href="#">GO:0002237</a>	<b>response to molecule of bacterial origin</b>	<b>0.121 %</b>	<b>-1.1596</b>	<b>0.88</b>	<b>0.37</b>
<a href="#">GO:0070482</a>	<b>response to oxygen levels</b>	<b>0.285 %</b>	<b>-1.8090</b>	<b>0.89</b>	<b>0.37</b>
<a href="#">GO:0022411</a>	cellular component disassembly	0.324 %	-1.1032	0.78	0.37
<a href="#">GO:0019722</a>	<b>calcium-mediated signaling</b>	<b>0.302 %</b>	<b>-1.2720</b>	<b>0.77</b>	<b>0.39</b>
<a href="#">GO:0019932</a>	second-messenger-mediated signaling	0.319 %	-1.0935	0.77	0.58
<a href="#">GO:0033554</a>	cellular response to stress	3.772 %	-1.1737	0.81	0.40
<a href="#">GO:0002213</a>	defense response to insect	0.069 %	-1.0453	0.87	0.41
<a href="#">GO:0045926</a>	negative regulation of growth	0.121 %	-1.1339	0.88	0.45
<a href="#">GO:0044277</a>	cell wall disassembly	0.013 %	-2.7131	0.77	0.46

Biological Process (174) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 15

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006457</a>	protein folding	0.764 %		-2.4310	0.95	0.00
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %		-5.1925	0.80	0.00
<a href="#">GO:0009266</a>	response to temperature stimulus	2.287 %		-1.4530	0.84	0.63
<a href="#">GO:0010224</a>	response to UV-B	0.298 %		-2.1639	0.83	0.83
<a href="#">GO:0009582</a>	detection of abiotic stimulus	0.311 %		-1.2335	0.84	0.94
<a href="#">GO:0009581</a>	detection of external stimulus	0.311 %		-1.2335	0.88	0.93
<a href="#">GO:0009584</a>	detection of visible light	0.022 %		-1.9515	0.84	0.57
<a href="#">GO:0009583</a>	detection of light stimulus	0.268 %		-1.4435	0.81	0.80
<a href="#">GO:0009314</a>	response to radiation	2.892 %		-5.1350	0.83	0.65
<a href="#">GO:0071214</a>	cellular response to abiotic stimulus	0.889 %		-1.3778	0.82	0.56
<a href="#">GO:0009642</a>	response to light intensity	0.587 %		-3.4507	0.83	0.79
<a href="#">GO:0009644</a>	response to high light intensity	0.324 %		-4.1064	0.84	0.74
<a href="#">GO:0009638</a>	phototropism	0.069 %		-1.4160	0.84	0.63
<a href="#">GO:0009650</a>	UV protection	0.013 %		-4.8195	0.86	0.55
<a href="#">GO:0034605</a>	cellular response to heat	0.160 %		-1.1881	0.83	0.66
<a href="#">GO:0006970</a>	response to osmotic stress	2.512 %		-1.9923	0.83	0.64

<a href="#">GO:0034644</a>	cellular response to UV	0.073 %	-3.5387	0.81	0.71
<a href="#">GO:0009411</a>	response to UV	0.427 %	-1.7064	0.83	0.76
<a href="#">GO:0009408</a>	response to heat	0.859 %	-2.9242	0.84	0.56
<a href="#">GO:0071482</a>	cellular response to light stimulus	0.561 %	-1.8451	0.79	0.83
<a href="#">GO:0070370</a>	cellular heat acclimation	0.039 %	-1.4550	0.84	0.59
<a href="#">GO:0071478</a>	cellular response to radiation	0.583 %	-1.8451	0.79	0.91
<a href="#">GO:0071493</a>	cellular response to UV-B	0.030 %	-3.9192	0.82	0.64
<a href="#">GO:0080167</a>	response to karrikin	0.531 %	-1.1792	0.86	0.53
<a href="#">GO:0009987</a>	<b>cellular process</b>	<b>58.826 %</b>	<b>-1.0780</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0010187</a>	<b>negative regulation of seed germination</b>	<b>0.073 %</b>	<b>-4.6621</b>	<b>0.78</b>	<b>0.00</b>
<a href="#">GO:2000026</a>	regulation of multicellular organismal development	1.765 %	-1.2800	0.77	0.92
<a href="#">GO:0051241</a>	negative regulation of multicellular organismal process	0.445 %	-2.8466	0.77	0.61
<a href="#">GO:0048581</a>	negative regulation of post-embryonic development	0.354 %	-3.1135	0.76	0.84
<a href="#">GO:0048580</a>	regulation of post-embryonic development	1.303 %	-1.5150	0.77	0.79
<a href="#">GO:1900140</a>	regulation of seedling development	0.315 %	-2.8575	0.79	0.92
<a href="#">GO:0009845</a>	seed germination	0.600 %	-3.1861	0.86	0.81
<a href="#">GO:0051093</a>	negative regulation of developmental process	0.492 %	-2.6869	0.81	0.57
<a href="#">GO:0010029</a>	regulation of seed germination	0.298 %	-2.9546	0.79	0.91
<a href="#">GO:0044699</a>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-1.0977</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-2.1898</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0043335</a>	protein unfolding	0.004 %	-1.9908	0.97	0.03
<a href="#">GO:0001887</a>	selenium compound metabolic process	0.017 %	-1.9515	0.94	0.03
<a href="#">GO:0061077</a>	chaperone-mediated protein folding	0.224 %	-1.3852	0.96	0.04
<a href="#">GO:0009658</a>	<b>chloroplast organization</b>	<b>0.803 %</b>	<b>-1.5908</b>	<b>0.92</b>	<b>0.05</b>
<a href="#">GO:0019750</a>	chloroplast localization	0.134 %	-1.3952	0.82	1.00
<a href="#">GO:0009903</a>	chloroplast avoidance movement	0.112 %	-1.6346	0.79	0.97
<a href="#">GO:0009904</a>	chloroplast accumulation movement	0.095 %	-1.7583	0.79	0.77
<a href="#">GO:0009902</a>	chloroplast relocation	0.129 %	-1.3952	0.78	0.99
<a href="#">GO:0051656</a>	establishment of organelle localization	0.276 %	-1.2656	0.82	0.91
<a href="#">GO:0009657</a>	plastid organization	1.032 %	-1.2784	0.93	0.55
<a href="#">GO:0051667</a>	establishment of plastid localization	0.129 %	-1.3952	0.82	0.99
<a href="#">GO:0051644</a>	plastid localization	0.134 %	-1.3952	0.83	0.84
<a href="#">GO:0018298</a>	<b>protein-chromophore linkage</b>	<b>0.203 %</b>	<b>-1.8090</b>	<b>0.90</b>	<b>0.06</b>
<a href="#">GO:0046209</a>	<b>nitric oxide metabolic process</b>	<b>0.030 %</b>	<b>-1.6436</b>	<b>0.90</b>	<b>0.06</b>
<a href="#">GO:1903409</a>	reactive oxygen species biosynthetic process	0.099 %	-1.4213	0.91	0.65
<a href="#">GO:0006809</a>	nitric oxide biosynthetic process	0.022 %	-1.7583	0.89	0.75
<a href="#">GO:0042126</a>	nitrate metabolic process	0.181 %	-1.5840	0.79	0.98
<a href="#">GO:0042128</a>	nitrate assimilation	0.181 %	-1.5840	0.79	0.86
<a href="#">GO:0046462</a>	<b>monoacylglycerol metabolic process</b>	<b>0.004 %</b>	<b>-4.5604</b>	<b>0.82</b>	<b>0.06</b>
<a href="#">GO:0046340</a>	diacylglycerol catabolic process	0.004 %	-4.5604	0.80	0.91
<a href="#">GO:0046339</a>	diacylglycerol metabolic process	0.022 %	-4.3614	0.80	0.70
<a href="#">GO:0044242</a>	cellular lipid catabolic process	0.315 %	-2.1379	0.76	0.66
<a href="#">GO:0006639</a>	acylglycerol metabolic process	0.147 %	-3.1062	0.78	0.87
<a href="#">GO:0046464</a>	acylglycerol catabolic process	0.022 %	-4.1637	0.78	0.77
<a href="#">GO:0046461</a>	neutral lipid catabolic process	0.022 %	-4.1637	0.78	0.77
<a href="#">GO:0046503</a>	glycerolipid catabolic process	0.035 %	-4.1637	0.79	0.54
<a href="#">GO:0052651</a>	monoacylglycerol catabolic process	0.004 %	-4.5604	0.80	0.91
<a href="#">GO:0051186</a>	<b>cofactor metabolic process</b>	<b>1.735 %</b>	<b>-1.6475</b>	<b>0.92</b>	<b>0.08</b>
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-1.7683</b>	<b>0.87</b>	<b>0.11</b>
<a href="#">GO:0009056</a>	<b>catabolic process</b>	<b>8.118 %</b>	<b>-1.2284</b>	<b>0.94</b>	<b>0.12</b>
<a href="#">GO:0019915</a>	<b>lipid storage</b>	<b>0.112 %</b>	<b>-3.8189</b>	<b>0.82</b>	<b>0.13</b>
<a href="#">GO:0010876</a>	lipid localization	0.708 %	-2.5647	0.85	0.50
<a href="#">GO:0071941</a>	<b>nitrogen cycle metabolic process</b>	<b>0.207 %</b>	<b>-1.4323</b>	<b>0.94</b>	<b>0.13</b>
<a href="#">GO:0090332</a>	<b>stomatal closure</b>	<b>0.121 %</b>	<b>-2.3482</b>	<b>0.87</b>	<b>0.13</b>
<a href="#">GO:0090333</a>	regulation of stomatal closure	0.065 %	-1.3803	0.81	0.77
<a href="#">GO:0010119</a>	regulation of stomatal movement	0.281 %	-1.6020	0.79	0.86
<a href="#">GO:0019354</a>	<b>siroheme biosynthetic process</b>	<b>0.009 %</b>	<b>-2.5334</b>	<b>0.83</b>	<b>0.14</b>
<a href="#">GO:0006783</a>	heme biosynthetic process	0.104 %	-1.6257	0.80	0.83
<a href="#">GO:0046156</a>	siroheme metabolic process	0.009 %	-2.5334	0.83	0.72
<a href="#">GO:0006732</a>	coenzyme metabolic process	1.191 %	-1.2331	0.89	0.71
<a href="#">GO:0042168</a>	heme metabolic process	0.121 %	-1.5684	0.81	0.69
<a href="#">GO:0043412</a>	<b>macromolecule modification</b>	<b>15.900 %</b>	<b>-1.2090</b>	<b>0.91</b>	<b>0.15</b>
<a href="#">GO:2001057</a>	reactive nitrogen species metabolic process	0.203 %	-1.4054	0.94	0.15
<a href="#">GO:0009610</a>	response to symbiotic fungus	0.052 %	-1.1820	0.91	0.18
<a href="#">GO:0048519</a>	negative regulation of biological process	3.716 %	-1.3501	0.88	0.20
<a href="#">GO:0044237</a>	<b>cellular metabolic process</b>	<b>46.461 %</b>	<b>-1.0768</b>	<b>0.91</b>	<b>0.21</b>
<a href="#">GO:0032787</a>	<b>monocarboxylic acid metabolic process</b>	<b>2.128 %</b>	<b>-2.2507</b>	<b>0.77</b>	<b>0.21</b>
<a href="#">GO:0006559</a>	L-phenylalanine catabolic process	0.035 %	-1.9908	0.78	0.50
<a href="#">GO:0006558</a>	L-phenylalanine metabolic process	0.073 %	-1.5684	0.80	0.95
<a href="#">GO:0043436</a>	oxoacid metabolic process	5.002 %	-2.4827	0.75	0.93
<a href="#">GO:0019752</a>	carboxylic acid metabolic process	4.437 %	-1.8979	0.75	0.82

<a href="#">GO:0006082</a>	<i>organic acid metabolic process</i>	5.015 %	-2.2509	0.76	0.71
<a href="#">GO:0009063</a>	<i>cellular amino acid catabolic process</i>	0.276 %	-1.0693	0.75	0.76
<a href="#">GO:0009694</a>	<i>jasmonic acid metabolic process</i>	0.117 %	-1.1027	0.81	0.56
<a href="#">GO:0016485</a>	<b>protein processing</b>	<b>0.220 %</b>	<b>-1.2807</b>	<b>0.92</b>	<b>0.22</b>
<a href="#">GO:0044092</a>	<b>negative regulation of molecular function</b>	<b>1.070 %</b>	<b>-1.0905</b>	<b>0.86</b>	<b>0.23</b>
<a href="#">GO:0051604</a>	<b>protein maturation</b>	<b>0.272 %</b>	<b>-1.2200</b>	<b>0.92</b>	<b>0.23</b>
<a href="#">GO:0009611</a>	<b>response to wounding</b>	<b>0.816 %</b>	<b>-2.8963</b>	<b>0.90</b>	<b>0.24</b>
<a href="#">GO:0010118</a>	<b>stomatal movement</b>	<b>0.440 %</b>	<b>-2.1555</b>	<b>0.87</b>	<b>0.24</b>
<a href="#">GO:0010155</a>	<b>regulation of proton transport</b>	<b>0.030 %</b>	<b>-2.1363</b>	<b>0.69</b>	<b>0.25</b>
<a href="#">GO:0006813</a>	<i>potassium ion transport</i>	0.496 %	-1.0261	0.80	0.74
<a href="#">GO:0006812</a>	<i>cation transport</i>	2.542 %	-1.1021	0.78	0.83
<a href="#">GO:0071805</a>	<i>potassium ion transmembrane transport</i>	0.319 %	-1.2006	0.69	0.81
<a href="#">GO:0071804</a>	<i>cellular potassium ion transport</i>	0.319 %	-1.2006	0.70	0.92
<a href="#">GO:0034762</a>	<i>regulation of transmembrane transport</i>	0.216 %	-1.1052	0.72	0.81
<a href="#">GO:0034763</a>	<i>negative regulation of transmembrane transport</i>	0.017 %	-1.7465	0.71	0.92
<a href="#">GO:0010360</a>	<i>negative regulation of anion channel activity</i>	0.017 %	-1.7465	0.69	0.96
<a href="#">GO:0010359</a>	<i>regulation of anion channel activity</i>	0.047 %	-1.1881	0.70	0.87
<a href="#">GO:0034765</a>	<i>regulation of ion transmembrane transport</i>	0.207 %	-1.1052	0.69	0.92
<a href="#">GO:0010362</a>	<i>negative regulation of anion channel activity by blue light</i>	0.009 %	-2.1084	0.70	0.66
<a href="#">GO:0010361</a>	<i>regulation of anion channel activity by blue light</i>	0.009 %	-2.1084	0.72	0.82
<a href="#">GO:0034766</a>	<i>negative regulation of ion transmembrane transport</i>	0.017 %	-1.7465	0.70	1.00
<a href="#">GO:0098656</a>	<i>anion transmembrane transport</i>	0.902 %	-1.0739	0.78	0.67
<a href="#">GO:1903960</a>	<i>negative regulation of anion transmembrane transport</i>	0.017 %	-1.7465	0.70	1.00
<a href="#">GO:1903959</a>	<i>regulation of anion transmembrane transport</i>	0.129 %	-1.1881	0.69	0.95
<a href="#">GO:0010107</a>	<i>potassium ion import</i>	0.022 %	-1.4729	0.74	0.52
<a href="#">GO:0022898</a>	<i>regulation of transmembrane transporter activity</i>	0.060 %	-1.1179	0.71	1.00
<a href="#">GO:0051051</a>	<i>negative regulation of transport</i>	0.026 %	-1.5046	0.75	0.62
<a href="#">GO:0032412</a>	<i>regulation of ion transmembrane transporter activity</i>	0.060 %	-1.1179	0.70	0.98
<a href="#">GO:0032409</a>	<i>regulation of transporter activity</i>	0.060 %	-1.1179	0.74	0.65
<a href="#">GO:0032410</a>	<i>negative regulation of transporter activity</i>	0.017 %	-1.7465	0.71	0.95
<a href="#">GO:0032413</a>	<i>negative regulation of ion transmembrane transporter activity</i>	0.017 %	-1.7465	0.69	1.00
<a href="#">GO:0044070</a>	<i>regulation of anion transport</i>	0.164 %	-1.1851	0.70	0.80
<a href="#">GO:1903792</a>	<i>negative regulation of anion transport</i>	0.017 %	-1.7465	0.70	0.95
<a href="#">GO:0015672</a>	<i>monovalent inorganic cation transport</i>	1.260 %	-1.6181	0.79	0.57
<a href="#">GO:0034220</a>	<i>ion transmembrane transport</i>	2.529 %	-1.5260	0.78	0.76
<a href="#">GO:0043271</a>	<i>negative regulation of ion transport</i>	0.026 %	-1.5046	0.70	0.98
<a href="#">GO:0043269</a>	<i>regulation of ion transport</i>	0.302 %	-1.0003	0.70	0.85
<a href="#">GO:0010493</a>	<b>Lewis a epitope biosynthetic process</b>	<b>0.009 %</b>	<b>-2.1363</b>	<b>0.85</b>	<b>0.26</b>
<a href="#">GO:0043413</a>	<i>macromolecule glycosylation</i>	0.483 %	-1.0022	0.82	0.97
<a href="#">GO:0009100</a>	<i>glycoprotein metabolic process</i>	0.496 %	-1.0022	0.90	0.62
<a href="#">GO:0009101</a>	<i>glycoprotein biosynthetic process</i>	0.488 %	-1.0022	0.89	0.99
<a href="#">GO:0006486</a>	<i>protein glycosylation</i>	0.483 %	-1.0022	0.78	0.54
<a href="#">GO:0065008</a>	<b>regulation of biological quality</b>	<b>5.991 %</b>	<b>-1.2867</b>	<b>0.89</b>	<b>0.29</b>
<a href="#">GO:0051640</a>	<b>organelle localization</b>	<b>0.332 %</b>	<b>-1.1614</b>	<b>0.84</b>	<b>0.29</b>
<a href="#">GO:0000413</a>	<b>protein peptidyl-prolyl isomerization</b>	<b>0.250 %</b>	<b>-1.6002</b>	<b>0.90</b>	<b>0.30</b>
<a href="#">GO:0018208</a>	<i>peptidyl-proline modification</i>	0.341 %	-1.4213	0.89	0.67
<a href="#">GO:0048480</a>	<b>stigma development</b>	<b>0.004 %</b>	<b>-1.8823</b>	<b>0.91</b>	<b>0.31</b>
<a href="#">GO:0042542</a>	<b>response to hydrogen peroxide</b>	<b>0.268 %</b>	<b>-2.8548</b>	<b>0.88</b>	<b>0.31</b>
<a href="#">GO:0000302</a>	<i>response to reactive oxygen species</i>	0.678 %	-1.9418	0.88	0.71
<a href="#">GO:0046686</a>	<i>response to cadmium ion</i>	1.368 %	-1.6748	0.89	0.62
<a href="#">GO:0010038</a>	<i>response to metal ion</i>	1.938 %	-1.3501	0.88	0.77
<a href="#">GO:0044763</a>	<b>single-organism cellular process</b>	<b>23.034 %</b>	<b>-1.4367</b>	<b>0.87</b>	<b>0.32</b>
<a href="#">GO:0045727</a>	<b>positive regulation of translation</b>	<b>0.095 %</b>	<b>-1.5248</b>	<b>0.79</b>	<b>0.32</b>
<a href="#">GO:0032270</a>	<i>positive regulation of cellular protein metabolic process</i>	0.699 %	-1.1363	0.80	0.82
<a href="#">GO:0051247</a>	<i>positive regulation of protein metabolic process</i>	0.721 %	-1.0281	0.82	0.63
<a href="#">GO:0034250</a>	<i>positive regulation of cellular amide metabolic process</i>	0.095 %	-1.5248	0.84	0.69
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-4.3374</b>	<b>0.89</b>	<b>0.33</b>
<a href="#">GO:0051239</a>	<b>regulation of multicellular organismal process</b>	<b>1.972 %</b>	<b>-1.1398</b>	<b>0.85</b>	<b>0.35</b>
<a href="#">GO:0009791</a>	<i>post-embryonic development</i>	5.848 %	-1.7920	0.85	0.57
<a href="#">GO:0007275</a>	<i>multicellular organism development</i>	10.423 %	-1.1618	0.84	0.78
<a href="#">GO:0044712</a>	<b>single-organism catabolic process</b>	<b>2.676 %</b>	<b>-2.1886</b>	<b>0.80</b>	<b>0.37</b>
<a href="#">GO:0044248</a>	<i>cellular catabolic process</i>	5.939 %	-1.1362	0.86	0.85
<a href="#">GO:1901575</a>	<i>organic substance catabolic process</i>	7.402 %	-1.3183	0.87	0.74
<a href="#">GO:0055074</a>	<b>calcium ion homeostasis</b>	<b>0.060 %</b>	<b>-1.2731</b>	<b>0.91</b>	<b>0.37</b>
<a href="#">GO:0072507</a>	<i>divalent inorganic cation homeostasis</i>	0.147 %	-1.0648	0.90	0.64
<a href="#">GO:0006979</a>	<b>response to oxidative stress</b>	<b>1.908 %</b>	<b>-1.9532</b>	<b>0.89</b>	<b>0.38</b>
<a href="#">GO:0002213</a>	<b>defense response to insect</b>	<b>0.069 %</b>	<b>-1.1614</b>	<b>0.90</b>	<b>0.38</b>
<a href="#">GO:0009608</a>	<b>response to symbiont</b>	<b>0.060 %</b>	<b>-1.1102</b>	<b>0.91</b>	<b>0.39</b>
<a href="#">GO:0010035</a>	<b>response to inorganic substance</b>	<b>3.699 %</b>	<b>-2.1838</b>	<b>0.88</b>	<b>0.40</b>
<a href="#">GO:2000022</a>	<b>regulation of jasmonic acid mediated signaling pathway</b>	<b>0.108 %</b>	<b>-1.6919</b>	<b>0.77</b>	<b>0.40</b>
<a href="#">GO:2000031</a>	<i>regulation of salicylic acid mediated signaling pathway</i>	0.086 %	-1.5046	0.78	0.64
<a href="#">GO:0006638</a>	<b>neutral lipid metabolic process</b>	<b>0.147 %</b>	<b>-3.1062</b>	<b>0.80</b>	<b>0.40</b>

<a href="#">GO:0072330</a>	<i>monocarboxylic acid biosynthetic process</i>	1.101 %	-1.2970	0.76	0.84
<a href="#">GO:0016042</a>	<i>lipid catabolic process</i>	1.032 %	-1.7326	0.77	0.73
<a href="#">GO:0044255</a>	<i>cellular lipid metabolic process</i>	3.224 %	-1.9988	0.76	0.59
<a href="#">GO:0006631</a>	<i>fatty acid metabolic process</i>	1.101 %	-1.4017	0.73	0.79
<a href="#">GO:0006633</a>	<i>fatty acid biosynthetic process</i>	0.682 %	-1.7046	0.73	0.69
<a href="#">GO:0046486</a>	<i>glycerolipid metabolic process</i>	0.764 %	-1.9872	0.78	0.70
<a href="#">GO:0006629</a>	<b>lipid metabolic process</b>	<b>4.683 %</b>	<b>-1.5523</b>	<b>0.81</b>	<b>0.41</b>
<a href="#">GO:0051235</a>	<i>maintenance of location</i>	0.302 %	-2.4975	0.81	0.42
<a href="#">GO:0042391</a>	<i>regulation of membrane potential</i>	0.138 %	-2.2329	0.91	0.43
<a href="#">GO:0090351</a>	<i>seedling development</i>	0.660 %	-3.0757	0.87	0.44
<a href="#">GO:0006950</a>	<i>response to stress</i>	14.156 %	-1.5788	0.88	0.45
<a href="#">GO:0006464</a>	<i>cellular protein modification process</i>	12.719 %	-1.3858	0.86	0.45
<a href="#">GO:0036211</a>	<i>protein modification process</i>	12.719 %	-1.3858	0.88	0.75
<a href="#">GO:0046500</a>	<i>S-adenosylmethionine metabolic process</i>	0.043 %	-1.7023	0.91	0.47
<a href="#">GO:0044281</a>	<i>small molecule metabolic process</i>	7.303 %	-1.5099	0.81	0.49



Biological Process (138) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 16

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0007154</a>	cell communication	9.698 %		-1.9190	0.91	0.00
<a href="#">GO:0009753</a>	response to jasmonic acid	0.919 %		-2.1846	0.84	0.00
<a href="#">GO:0071229</a>	<i>cellular response to acid chemical</i>	2.158 %		-1.3400	0.76	0.79
<a href="#">GO:0044700</a>	<i>single organism signaling</i>	8.899 %		-1.1863	0.89	0.91
<a href="#">GO:0009755</a>	<i>hormone-mediated signaling pathway</i>	3.617 %		-1.5732	0.53	0.94
<a href="#">GO:0009751</a>	<i>response to salicylic acid</i>	0.876 %		-1.5242	0.84	0.60
<a href="#">GO:0009819</a>	<i>drought recovery</i>	0.047 %		-1.5603	0.86	0.70
<a href="#">GO:0032870</a>	<i>cellular response to hormone stimulus</i>	3.871 %		-1.8453	0.75	0.63
<a href="#">GO:0070887</a>	<i>cellular response to chemical stimulus</i>	5.287 %		-1.1902	0.77	0.67
<a href="#">GO:0071396</a>	<i>cellular response to lipid</i>	1.770 %		-1.0695	0.77	0.81
<a href="#">GO:0009414</a>	<i>response to water deprivation</i>	1.390 %		-2.0704	0.82	0.63
<a href="#">GO:0009415</a>	<i>response to water</i>	1.416 %		-2.0365	0.83	0.74
<a href="#">GO:0071310</a>	<i>cellular response to organic substance</i>	4.601 %		-1.4723	0.75	0.88
<a href="#">GO:0007165</a>	<i>signal transduction</i>	8.731 %		-1.2023	0.53	0.64
<a href="#">GO:0071495</a>	<i>cellular response to endogenous stimulus</i>	3.988 %		-1.7956	0.87	0.75
<a href="#">GO:0010150</a>	leaf senescence	0.462 %		-1.9838	0.88	0.00
<a href="#">GO:0090693</a>	<i>plant organ senescence</i>	0.462 %		-1.9817	0.88	0.96
<a href="#">GO:0048467</a>	<i>gynoecium development</i>	0.315 %		-1.1866	0.89	0.58
<a href="#">GO:0010604</a>	positive regulation of macromolecule metabolic process	2.672 %		-2.0767	0.53	0.00

<a href="#">GO:0048522</a>	positive regulation of cellular process	3.582 %	-1.3241	0.60	0.87
<a href="#">GO:0032774</a>	RNA biosynthetic process	11.813 %	-2.9573	0.62	0.82
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %	-1.8928	0.55	0.82
<a href="#">GO:0010468</a>	regulation of gene expression	12.706 %	-2.2795	0.53	0.79
<a href="#">GO:0031323</a>	regulation of cellular metabolic process	13.906 %	-2.1474	0.54	0.80
<a href="#">GO:1902680</a>	positive regulation of RNA biosynthetic process	1.869 %	-1.6321	0.47	0.97
<a href="#">GO:0031328</a>	positive regulation of cellular biosynthetic process	2.102 %	-1.4619	0.50	0.97
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %	-2.2108	0.49	0.87
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %	-2.0347	0.53	0.95
<a href="#">GO:0051252</a>	regulation of RNA metabolic process	11.463 %	-2.9725	0.47	0.87
<a href="#">GO:2001141</a>	regulation of RNA biosynthetic process	11.282 %	-3.0645	0.45	0.88
<a href="#">GO:0019219</a>	regulation of nucleobase-containing compound metabolic process	11.700 %	-2.8458	0.49	0.84
<a href="#">GO:0051254</a>	positive regulation of RNA metabolic process	1.912 %	-1.6321	0.49	0.96
<a href="#">GO:0016070</a>	RNA metabolic process	17.562 %	-2.3055	0.66	0.66
<a href="#">GO:2000112</a>	regulation of cellular macromolecule biosynthetic process	12.003 %	-2.5637	0.47	0.86
<a href="#">GO:0045935</a>	positive regulation of nucleobase-containing compound metabolic process	2.007 %	-1.5823	0.50	0.96
<a href="#">GO:0010628</a>	positive regulation of gene expression	2.050 %	-1.5432	0.54	0.92
<a href="#">GO:0006355</a>	regulation of transcription, DNA-templated	11.234 %	-3.0645	0.45	0.58
<a href="#">GO:0006351</a>	transcription, DNA-templated	11.709 %	-2.9573	0.61	0.87
<a href="#">GO:0045893</a>	positive regulation of transcription, DNA-templated	1.864 %	-1.6321	0.47	0.90
<a href="#">GO:0060255</a>	regulation of macromolecule metabolic process	14.091 %	-1.8747	0.53	0.83
<a href="#">GO:1903508</a>	positive regulation of nucleic acid-templated transcription	1.869 %	-1.6321	0.47	0.98
<a href="#">GO:1903506</a>	regulation of nucleic acid-templated transcription	11.282 %	-3.0645	0.45	0.89
<a href="#">GO:0097659</a>	nucleic acid-templated transcription	11.761 %	-2.9573	0.62	0.88
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-1.9007	0.57	0.83
<a href="#">GO:0009891</a>	positive regulation of biosynthetic process	2.145 %	-1.4457	0.53	0.92
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-2.1401	0.53	0.78
<a href="#">GO:0010556</a>	regulation of macromolecule biosynthetic process	12.076 %	-2.5529	0.49	0.86
<a href="#">GO:0010557</a>	positive regulation of macromolecule biosynthetic process	2.007 %	-1.5188	0.50	0.95
<a href="#">GO:0051173</a>	positive regulation of nitrogen compound metabolic process	2.119 %	-1.4758	0.54	0.92
<a href="#">GO:0034654</a>	nucleobase-containing compound biosynthetic process	13.056 %	-2.4593	0.66	0.80
<a href="#">GO:0051171</a>	regulation of nitrogen compound metabolic process	12.430 %	-2.3484	0.54	0.76
<a href="#">GO:0034645</a>	cellular macromolecule biosynthetic process	16.737 %	-1.4801	0.66	0.74
<a href="#">GO:0023052</a>	<b>signaling</b>	<b>8.908 %</b>	<b>-1.1839</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0007062</a>	<b>sister chromatid cohesion</b>	<b>0.186 %</b>	<b>-1.5127</b>	<b>0.82</b>	<b>0.09</b>
<a href="#">GO:0098813</a>	nuclear chromosome segregation	0.436 %	-1.0206	0.87	0.92
<a href="#">GO:0000819</a>	sister chromatid segregation	0.285 %	-1.2295	0.81	0.89
<a href="#">GO:0006869</a>	<b>lipid transport</b>	<b>0.596 %</b>	<b>-1.0240</b>	<b>0.94</b>	<b>0.10</b>
<a href="#">GO:0018027</a>	<b>peptidyl-lysine dimethylation</b>	<b>0.022 %</b>	<b>-1.7099</b>	<b>0.72</b>	<b>0.10</b>
<a href="#">GO:0034968</a>	histone lysine methylation	0.298 %	-1.1074	0.62	0.79
<a href="#">GO:0018022</a>	peptidyl-lysine methylation	0.350 %	-1.0991	0.67	0.93
<a href="#">GO:0018874</a>	<b>benzoate metabolic process</b>	<b>0.009 %</b>	<b>-1.5016</b>	<b>0.84</b>	<b>0.14</b>
<a href="#">GO:0046482</a>	para-aminobenzoic acid metabolic process	0.017 %	-1.3325	0.83	0.70
<a href="#">GO:0000959</a>	<b>mitochondrial RNA metabolic process</b>	<b>0.324 %</b>	<b>-1.2908</b>	<b>0.79</b>	<b>0.15</b>
<a href="#">GO:0032196</a>	<b>transposition</b>	<b>0.013 %</b>	<b>-1.3708</b>	<b>0.91</b>	<b>0.15</b>
<a href="#">GO:0031930</a>	<b>mitochondria-nucleus signaling pathway</b>	<b>0.043 %</b>	<b>-1.8337</b>	<b>0.71</b>	<b>0.19</b>
<a href="#">GO:0071474</a>	<b>cellular hyperosmotic response</b>	<b>0.013 %</b>	<b>-1.5127</b>	<b>0.86</b>	<b>0.22</b>
<a href="#">GO:0071475</a>	cellular hyperosmotic salinity response	0.009 %	-1.5127	0.86	0.67
<a href="#">GO:0010467</a>	<b>gene expression</b>	<b>18.304 %</b>	<b>-1.2202</b>	<b>0.80</b>	<b>0.23</b>
<a href="#">GO:0009611</a>	<b>response to wounding</b>	<b>0.816 %</b>	<b>-1.3302</b>	<b>0.90</b>	<b>0.24</b>
<a href="#">GO:0016556</a>	<b>mRNA modification</b>	<b>0.311 %</b>	<b>-1.2295</b>	<b>0.73</b>	<b>0.25</b>
<a href="#">GO:1900864</a>	mitochondrial RNA modification	0.263 %	-1.3399	0.73	0.95
<a href="#">GO:0080156</a>	mitochondrial mRNA modification	0.233 %	-1.3474	0.73	0.64
<a href="#">GO:0061647</a>	<b>histone H3-K9 modification</b>	<b>0.069 %</b>	<b>-1.2843</b>	<b>0.70</b>	<b>0.26</b>
<a href="#">GO:1902275</a>	regulation of chromatin organization	0.233 %	-1.1032	0.66	0.60
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-1.0389</b>	<b>0.89</b>	<b>0.28</b>
<a href="#">GO:0042549</a>	<b>photosystem II stabilization</b>	<b>0.030 %</b>	<b>-1.7883</b>	<b>0.74</b>	<b>0.28</b>
<a href="#">GO:0043543</a>	<b>protein acylation</b>	<b>0.345 %</b>	<b>-1.0869</b>	<b>0.78</b>	<b>0.28</b>
<a href="#">GO:0019438</a>	<b>aromatic compound biosynthetic process</b>	<b>14.247 %</b>	<b>-2.2909</b>	<b>0.70</b>	<b>0.29</b>
<a href="#">GO:0018130</a>	heterocycle biosynthetic process	14.014 %	-2.0025	0.70	0.58
<a href="#">GO:0009059</a>	macromolecule biosynthetic process	17.035 %	-1.4270	0.72	0.62
<a href="#">GO:0044271</a>	cellular nitrogen compound biosynthetic process	17.018 %	-1.4568	0.69	0.61
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-2.1035	0.72	0.55
<a href="#">GO:0009647</a>	<b>skotomorphogenesis</b>	<b>0.026 %</b>	<b>-1.5016</b>	<b>0.84</b>	<b>0.30</b>
<a href="#">GO:0009646</a>	response to absence of light	0.142 %	-1.0950	0.90	0.69
<a href="#">GO:0046685</a>	<b>response to arsenic-containing substance</b>	<b>0.060 %</b>	<b>-1.1762</b>	<b>0.89</b>	<b>0.30</b>
<a href="#">GO:1901983</a>	<b>regulation of protein acetylation</b>	<b>0.056 %</b>	<b>-1.5863</b>	<b>0.57</b>	<b>0.30</b>
<a href="#">GO:1901984</a>	negative regulation of protein acetylation	0.039 %	-1.6436	0.54	0.95
<a href="#">GO:0031060</a>	regulation of histone methylation	0.086 %	-1.5127	0.51	0.92
<a href="#">GO:0031057</a>	negative regulation of histone modification	0.047 %	-1.6436	0.51	0.95
<a href="#">GO:0031058</a>	positive regulation of histone modification	0.069 %	-1.6285	0.48	0.87

<a href="#">GO:0031056</a>	regulation of histone modification	0.134 %	-1.3399	0.52	0.88
<a href="#">GO:2000756</a>	regulation of peptidyl-lysine acetylation	0.056 %	-1.5863	0.53	1.00
<a href="#">GO:0031062</a>	positive regulation of histone methylation	0.047 %	-1.6285	0.48	0.94
<a href="#">GO:0051570</a>	regulation of histone H3-K9 methylation	0.039 %	-1.6140	0.51	0.84
<a href="#">GO:0051567</a>	histone H3-K9 methylation	0.065 %	-1.2843	0.64	0.96
<a href="#">GO:1905269</a>	positive regulation of chromatin organization	0.086 %	-1.5479	0.58	0.81
<a href="#">GO:0016573</a>	histone acetylation	0.263 %	-1.1426	0.60	0.86
<a href="#">GO:1900111</a>	positive regulation of histone H3-K9 dimethylation	0.017 %	-1.7099	0.49	0.89
<a href="#">GO:1900109</a>	regulation of histone H3-K9 dimethylation	0.022 %	-1.7099	0.53	0.99
<a href="#">GO:1905268</a>	negative regulation of chromatin organization	0.065 %	-1.4130	0.61	0.84
<a href="#">GO:0051574</a>	positive regulation of histone H3-K9 methylation	0.022 %	-1.6592	0.49	0.92
<a href="#">GO:0035065</a>	regulation of histone acetylation	0.056 %	-1.5863	0.49	0.98
<a href="#">GO:0035067</a>	negative regulation of histone acetylation	0.039 %	-1.6436	0.47	0.75
<a href="#">GO:0006473</a>	protein acetylation	0.319 %	-1.1246	0.70	0.97
<a href="#">GO:0006475</a>	internal protein amino acid acetylation	0.281 %	-1.1426	0.70	0.97
<a href="#">GO:0036123</a>	histone H3-K9 dimethylation	0.022 %	-1.7099	0.66	1.00
<a href="#">GO:2000757</a>	negative regulation of peptidyl-lysine acetylation	0.039 %	-1.6436	0.52	1.00
<a href="#">GO:0031400</a>	negative regulation of protein modification process	0.220 %	-1.2590	0.53	0.72
<a href="#">GO:0018394</a>	peptidyl-lysine acetylation	0.263 %	-1.1426	0.65	0.97
<a href="#">GO:0018393</a>	internal peptidyl-lysine acetylation	0.263 %	-1.1426	0.65	1.00
<a href="#">GO:0031401</a>	positive regulation of protein modification process	0.337 %	-1.1915	0.49	0.83
<a href="#">GO:0009962</a>	<b>regulation of flavonoid biosynthetic process</b>	<b>0.095 %</b>	<b>-1.0524</b>	<b>0.70</b>	<b>0.31</b>
<a href="#">GO:0048504</a>	<b>regulation of timing of animal organ formation</b>	<b>0.004 %</b>	<b>-1.8104</b>	<b>0.74</b>	<b>0.32</b>
<a href="#">GO:2000027</a>	regulation of organ morphogenesis	0.004 %	-1.3956	0.75	1.15
<a href="#">GO:0010223</a>	secondary shoot formation	0.112 %	-1.1032	0.86	0.58
<a href="#">GO:0010160</a>	formation of animal organ boundary	0.055 %	-1.4042	0.83	1.15
<a href="#">GO:0048859</a>	formation of anatomical boundary	0.069 %	-1.0008	0.88	0.69
<a href="#">GO:0003156</a>	regulation of animal organ formation	0.004 %	-1.5016	0.74	1.00
<a href="#">GO:0048645</a>	animal organ formation	0.004 %	-1.1472	0.86	1.00
<a href="#">GO:0010346</a>	shoot axis formation	0.112 %	-1.1032	0.86	0.80
<a href="#">GO:0010072</a>	primary shoot apical meristem specification	0.060 %	-1.0991	0.88	0.69
<a href="#">GO:0009968</a>	<b>negative regulation of signal transduction</b>	<b>0.332 %</b>	<b>-1.6270</b>	<b>0.61</b>	<b>0.33</b>
<a href="#">GO:0048523</a>	negative regulation of cellular process	2.719 %	-1.1860	0.65	0.68
<a href="#">GO:0023057</a>	negative regulation of signaling	0.345 %	-1.6132	0.70	0.78
<a href="#">GO:0010648</a>	negative regulation of cell communication	0.345 %	-1.6132	0.69	0.78
<a href="#">GO:0009937</a>	regulation of gibberellic acid mediated signaling pathway	0.073 %	-1.0750	0.64	0.69
<a href="#">GO:0009938</a>	negative regulation of gibberellic acid mediated signaling pathway	0.039 %	-1.5016	0.62	0.83
<a href="#">GO:0080024</a>	indolebutyric acid metabolic process	0.022 %	-1.3789	0.77	0.33
<a href="#">GO:0007568</a>	aging	0.544 %	-1.6581	0.90	0.35
<a href="#">GO:0001763</a>	morphogenesis of a branching structure	0.125 %	-1.0673	0.89	0.39
<a href="#">GO:0019222</a>	regulation of metabolic process	14.847 %	-1.7676	0.66	0.39
<a href="#">GO:0050794</a>	regulation of cellular process	22.244 %	-1.0096	0.63	0.63
<a href="#">GO:0070301</a>	cellular response to hydrogen peroxide	0.035 %	-1.3112	0.82	0.40
<a href="#">GO:0010035</a>	response to inorganic substance	3.699 %	-1.2632	0.85	0.46
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-1.8141	0.84	0.58
<a href="#">GO:0010529</a>	negative regulation of transposition	0.009 %	-1.6140	0.74	0.47
<a href="#">GO:0010528</a>	regulation of transposition	0.009 %	-1.6140	0.79	0.96
<a href="#">GO:0051782</a>	negative regulation of cell division	0.022 %	-1.5016	0.74	0.50

Biological Process (145) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 17

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0002376</a>	immune system process	1.532 %		-1.0569	0.99	0.00
<a href="#">GO:0015979</a>	photosynthesis	1.057 %		-1.9769	0.92	0.00
<a href="#">GO:0042754</a>	negative regulation of circadian rhythm	0.013 %		-3.4274	0.85	0.00
<a href="#">GO:0007623</a>	circadian rhythm	0.539 %		-1.3675	0.96	0.90
<a href="#">GO:0042752</a>	regulation of circadian rhythm	0.220 %		-1.5315	0.82	0.69
<a href="#">GO:0048511</a>	rhythmic process	0.600 %		-1.3535	0.99	0.00
<a href="#">GO:0048574</a>	long-day photoperiodism, flowering	0.121 %		-3.8603	0.75	0.00
<a href="#">GO:0061416</a>	regulation of transcription from RNA polymerase II promoter in response to salt stress	0.004 %		-1.6708	0.68	0.55
<a href="#">GO:0061392</a>	regulation of transcription from RNA polymerase II promoter in response to osmotic stress	0.004 %		-1.6708	0.68	0.93
<a href="#">GO:0048573</a>	photoperiodism, flowering	0.388 %		-2.0301	0.73	0.90
<a href="#">GO:0048571</a>	long-day photoperiodism	0.138 %		-3.5949	0.83	0.82
<a href="#">GO:0009785</a>	blue light signaling pathway	0.078 %		-2.3512	0.67	0.81
<a href="#">GO:0043618</a>	regulation of transcription from RNA polymerase II promoter in response to stress	0.009 %		-1.3634	0.71	0.92
<a href="#">GO:0009637</a>	response to blue light	0.341 %		-1.0749	0.83	0.74
<a href="#">GO:0009638</a>	phototropism	0.069 %		-1.0612	0.82	0.80
<a href="#">GO:0009648</a>	photoperiodism	0.427 %		-1.8234	0.82	0.76
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %		-2.8033	0.79	0.67
<a href="#">GO:0071482</a>	cellular response to light stimulus	0.561 %		-1.1724	0.77	0.85
<a href="#">GO:0071483</a>	cellular response to blue light	0.104 %		-2.1386	0.79	0.51

<a href="#">GO:0071478</a>	<i>cellular response to radiation</i>	0.583 %	-1.1724	0.77	0.91
<a href="#">GO:0065007</a>	<b>biological regulation</b>	<b>28.554 %</b>	<b>-1.0542</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0010398</a>	<i>xylogalacturonan metabolic process</i>	0.004 %	-1.6941	0.93	0.03
<a href="#">GO:0009813</a>	<i>flavonoid biosynthetic process</i>	0.332 %	-1.3014	0.89	0.05
<a href="#">GO:0009812</a>	<i>flavonoid metabolic process</i>	0.414 %	-1.0611	0.94	0.06
<a href="#">GO:1901678</a>	<i>iron coordination entity transport</i>	0.060 %	-3.7176	0.88	0.07
<a href="#">GO:0009767</a>	<b>photosynthetic electron transport chain</b>	<b>0.224 %</b>	<b>-2.5770</b>	<b>0.84</b>	<b>0.08</b>
<a href="#">GO:0022900</a>	<i>electron transport chain</i>	0.479 %	-2.1204	0.83	0.73
<a href="#">GO:0019684</a>	<i>photosynthesis, light reaction</i>	0.505 %	-1.7692	0.90	0.79
<a href="#">GO:0080164</a>	<b>regulation of nitric oxide metabolic process</b>	<b>0.009 %</b>	<b>-1.9063</b>	<b>0.80</b>	<b>0.12</b>
<a href="#">GO:0046209</a>	<i>nitric oxide metabolic process</i>	0.030 %	-1.2843	0.90	0.71
<a href="#">GO:2001057</a>	<b>reactive nitrogen species metabolic process</b>	<b>0.203 %</b>	<b>-1.0509</b>	<b>0.91</b>	<b>0.12</b>
<a href="#">GO:0030522</a>	<b>intracellular receptor signaling pathway</b>	<b>0.078 %</b>	<b>-2.3512</b>	<b>0.74</b>	<b>0.14</b>
<a href="#">GO:0042547</a>	<b>cell wall modification involved in multidimensional cell growth</b>	<b>0.017 %</b>	<b>-1.2843</b>	<b>0.89</b>	<b>0.15</b>
<a href="#">GO:0016049</a>	<i>cell growth</i>	1.519 %	-1.1463	0.86	0.56
<a href="#">GO:0048878</a>	<b>chemical homeostasis</b>	<b>1.765 %</b>	<b>-2.2441</b>	<b>0.68</b>	<b>0.16</b>
<a href="#">GO:0055082</a>	<i>cellular chemical homeostasis</i>	0.902 %	-1.8058	0.62	0.86
<a href="#">GO:0055080</a>	<i>cation homeostasis</i>	1.083 %	-1.6820	0.67	0.95
<a href="#">GO:0055076</a>	<i>transition metal ion homeostasis</i>	0.678 %	-1.4245	0.68	0.91
<a href="#">GO:0055075</a>	<i>potassium ion homeostasis</i>	0.069 %	-1.1228	0.73	0.73
<a href="#">GO:0055072</a>	<i>iron ion homeostasis</i>	0.237 %	-2.0403	0.71	0.70
<a href="#">GO:0055065</a>	<i>metal ion homeostasis</i>	0.842 %	-1.7573	0.68	0.93
<a href="#">GO:0055062</a>	<i>phosphate ion homeostasis</i>	0.078 %	-1.1168	0.72	0.92
<a href="#">GO:0042592</a>	<i>homeostatic process</i>	2.637 %	-1.5704	0.71	0.69
<a href="#">GO:0019725</a>	<i>cellular homeostasis</i>	1.549 %	-1.1205	0.62	0.86
<a href="#">GO:0006884</a>	<i>cell volume homeostasis</i>	0.009 %	-1.3526	0.73	0.53
<a href="#">GO:0006873</a>	<i>cellular ion homeostasis</i>	0.790 %	-1.2250	0.62	0.92
<a href="#">GO:0050801</a>	<i>ion homeostasis</i>	1.299 %	-2.1755	0.68	0.90
<a href="#">GO:0072506</a>	<i>trivalent inorganic anion homeostasis</i>	0.078 %	-1.1168	0.72	0.81
<a href="#">GO:0072502</a>	<i>cellular trivalent inorganic anion homeostasis</i>	0.022 %	-1.7448	0.69	0.96
<a href="#">GO:0030002</a>	<i>cellular anion homeostasis</i>	0.030 %	-1.7448	0.68	0.58
<a href="#">GO:0030004</a>	<i>cellular monovalent inorganic cation homeostasis</i>	0.160 %	-1.1109	0.65	0.83
<a href="#">GO:0009992</a>	<i>cellular water homeostasis</i>	0.004 %	-1.3744	0.73	0.71
<a href="#">GO:0030643</a>	<i>cellular phosphate ion homeostasis</i>	0.022 %	-1.7448	0.69	0.75
<a href="#">GO:0030007</a>	<i>cellular potassium ion homeostasis</i>	0.022 %	-1.2581	0.69	0.57
<a href="#">GO:0098771</a>	<i>inorganic ion homeostasis</i>	1.139 %	-2.3619	0.67	0.83
<a href="#">GO:0016139</a>	<b>glycoside catabolic process</b>	<b>0.009 %</b>	<b>-1.2843</b>	<b>0.89</b>	<b>0.18</b>
<a href="#">GO:1901698</a>	<b>response to nitrogen compound</b>	<b>1.174 %</b>	<b>-1.7865</b>	<b>0.87</b>	<b>0.18</b>
<a href="#">GO:0019509</a>	<b>L-methionine biosynthetic process from methylthioadenosine</b>	<b>0.039 %</b>	<b>-1.6941</b>	<b>0.78</b>	<b>0.20</b>
<a href="#">GO:0071265</a>	<i>L-methionine biosynthetic process</i>	0.052 %	-1.4896	0.78	0.88
<a href="#">GO:0071267</a>	<i>L-methionine salvage</i>	0.043 %	-1.6941	0.78	0.99
<a href="#">GO:0009086</a>	<i>methionine biosynthetic process</i>	0.112 %	-1.0717	0.77	0.92
<a href="#">GO:0043102</a>	<i>amino acid salvage</i>	0.043 %	-1.6941	0.79	0.70
<a href="#">GO:0043620</a>	<b>regulation of DNA-templated transcription in response to stress</b>	<b>0.013 %</b>	<b>-1.2754</b>	<b>0.72</b>	<b>0.22</b>
<a href="#">GO:0010266</a>	<b>response to vitamin B1</b>	<b>0.009 %</b>	<b>-1.8687</b>	<b>0.87</b>	<b>0.26</b>
<a href="#">GO:0009753</a>	<i>response to jasmonic acid</i>	0.919 %	-1.0730	0.86	0.60
<a href="#">GO:0009751</a>	<i>response to salicylic acid</i>	0.876 %	-1.1747	0.86	0.58
<a href="#">GO:0033273</a>	<i>response to vitamin</i>	0.026 %	-1.4611	0.87	0.87
<a href="#">GO:0007584</a>	<i>response to nutrient</i>	0.047 %	-1.0410	0.87	0.59
<a href="#">GO:0010243</a>	<i>response to organonitrogen compound</i>	0.768 %	-1.0719	0.87	0.62
<a href="#">GO:0009805</a>	<b>coumarin biosynthetic process</b>	<b>0.013 %</b>	<b>-1.6079</b>	<b>0.81</b>	<b>0.28</b>
<a href="#">GO:0009804</a>	<i>coumarin metabolic process</i>	0.017 %	-1.3421	0.84	0.60
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-1.5123</b>	<b>0.87</b>	<b>0.29</b>
<a href="#">GO:0008216</a>	<b>spermidine metabolic process</b>	<b>0.056 %</b>	<b>-1.2934</b>	<b>0.88</b>	<b>0.29</b>
<a href="#">GO:0006595</a>	<i>polyamine metabolic process</i>	0.095 %	-1.0717	0.88	0.82
<a href="#">GO:0010019</a>	<b>chloroplast-nucleus signaling pathway</b>	<b>0.039 %</b>	<b>-1.3634</b>	<b>0.75</b>	<b>0.30</b>
<a href="#">GO:0050688</a>	<b>regulation of defense response to virus</b>	<b>0.039 %</b>	<b>-1.4217</b>	<b>0.77</b>	<b>0.30</b>
<a href="#">GO:0002697</a>	<i>regulation of immune effector process</i>	0.039 %	-1.4217	0.84	0.75
<a href="#">GO:0009627</a>	<i>systemic acquired resistance</i>	0.281 %	-1.2726	0.86	0.60
<a href="#">GO:0006357</a>	<b>regulation of transcription from RNA polymerase II promoter</b>	<b>2.210 %</b>	<b>-1.0993</b>	<b>0.67</b>	<b>0.30</b>
<a href="#">GO:0032774</a>	<i>RNA biosynthetic process</i>	11.813 %	-1.0189	0.75	0.82
<a href="#">GO:0010468</a>	<i>regulation of gene expression</i>	12.706 %	-1.2647	0.66	0.79
<a href="#">GO:0031323</a>	<i>regulation of cellular metabolic process</i>	13.906 %	-1.2415	0.66	0.80
<a href="#">GO:0031326</a>	<i>regulation of cellular biosynthetic process</i>	12.339 %	-1.2432	0.63	0.85
<a href="#">GO:0051252</a>	<i>regulation of RNA metabolic process</i>	11.463 %	-1.5828	0.62	0.87
<a href="#">GO:2001141</a>	<i>regulation of RNA biosynthetic process</i>	11.282 %	-1.6510	0.61	0.88
<a href="#">GO:0019219</a>	<i>regulation of nucleobase-containing compound metabolic process</i>	11.700 %	-1.4897	0.63	0.84
<a href="#">GO:2000112</a>	<i>regulation of cellular macromolecule biosynthetic process</i>	12.003 %	-1.0829	0.62	0.87
<a href="#">GO:0006355</a>	<i>regulation of transcription, DNA-templated</i>	11.234 %	-1.6510	0.61	0.65
<a href="#">GO:0006351</a>	<i>transcription, DNA-templated</i>	11.709 %	-1.0189	0.75	0.87
<a href="#">GO:0060255</a>	<i>regulation of macromolecule metabolic process</i>	14.091 %	-1.0766	0.66	0.83
<a href="#">GO:1903506</a>	<i>regulation of nucleic acid-templated transcription</i>	11.282 %	-1.6510	0.61	0.89

<a href="#">GO:0097659</a>	<i>nucleic acid-templated transcription</i>	11.761 %	-1.0189	0.75	0.88
<a href="#">GO:0009889</a>	<i>regulation of biosynthetic process</i>	12.408 %	-1.2161	0.65	0.78
<a href="#">GO:0010556</a>	<i>regulation of macromolecule biosynthetic process</i>	12.076 %	-1.0804	0.63	0.87
<a href="#">GO:0051171</a>	<i>regulation of nitrogen compound metabolic process</i>	12.430 %	-1.5292	0.65	0.76
<a href="#">GO:0055114</a>	<b>oxidation-reduction process</b>	<b>7.462 %</b>	<b>-1.0588</b>	<b>0.84</b>	<b>0.32</b>
<a href="#">GO:0015827</a>	<b>tryptophan transport</b>	<b>0.004 %</b>	<b>-1.7187</b>	<b>0.85</b>	<b>0.32</b>
<a href="#">GO:0015740</a>	<i>C4-dicarboxylate transport</i>	0.099 %	-1.1956	0.83	0.82
<a href="#">GO:0006835</a>	<i>dicarboxylic acid transport</i>	0.121 %	-1.1956	0.83	0.83
<a href="#">GO:0015800</a>	<i>acidic amino acid transport</i>	0.035 %	-1.3634	0.83	0.68
<a href="#">GO:0015804</a>	<i>neutral amino acid transport</i>	0.086 %	-1.3319	0.82	0.80
<a href="#">GO:0015801</a>	<i>aromatic amino acid transport</i>	0.017 %	-1.7187	0.84	0.61
<a href="#">GO:0015802</a>	<i>basic amino acid transport</i>	0.035 %	-1.4217	0.83	0.66
<a href="#">GO:1905039</a>	<i>carboxylic acid transmembrane transport</i>	0.505 %	-1.3857	0.81	0.75
<a href="#">GO:0015809</a>	<i>arginine transport</i>	0.017 %	-1.4345	0.84	0.63
<a href="#">GO:0015810</a>	<i>aspartate transport</i>	0.009 %	-1.7187	0.84	0.56
<a href="#">GO:0043090</a>	<i>amino acid import</i>	0.056 %	-1.0361	0.83	0.78
<a href="#">GO:1903825</a>	<i>organic acid transmembrane transport</i>	0.505 %	-1.3857	0.81	0.94
<a href="#">GO:0003333</a>	<i>amino acid transmembrane transport</i>	0.337 %	-1.3857	0.81	0.96
<a href="#">GO:0010193</a>	<b>response to ozone</b>	<b>0.129 %</b>	<b>-1.5383</b>	<b>0.87</b>	<b>0.33</b>
<a href="#">GO:0000302</a>	<i>response to reactive oxygen species</i>	0.678 %	-1.0129	0.86	0.67
<a href="#">GO:0015688</a>	<b>iron chelate transport</b>	<b>0.009 %</b>	<b>-3.7176</b>	<b>0.89</b>	<b>0.33</b>
<a href="#">GO:0048477</a>	<b>oogenesis</b>	<b>0.009 %</b>	<b>-1.5706</b>	<b>0.85</b>	<b>0.34</b>
<a href="#">GO:0007292</a>	<i>female gamete generation</i>	0.022 %	-1.3319	0.88	0.70
<a href="#">GO:0007281</a>	<i>germ cell development</i>	0.004 %	-1.5706	0.86	0.65
<a href="#">GO:0006071</a>	<b>glycerol metabolic process</b>	<b>0.117 %</b>	<b>-1.3857</b>	<b>0.82</b>	<b>0.35</b>
<a href="#">GO:0051275</a>	<i>beta-glucan catabolic process</i>	0.112 %	-1.2029	0.88	0.89
<a href="#">GO:0019400</a>	<i>alditol metabolic process</i>	0.117 %	-1.3857	0.82	0.89
<a href="#">GO:0030245</a>	<i>cellulose catabolic process</i>	0.112 %	-1.2029	0.88	0.58
<a href="#">GO:0050792</a>	<b>regulation of viral process</b>	<b>0.013 %</b>	<b>-1.1956</b>	<b>0.83</b>	<b>0.36</b>
<a href="#">GO:0043903</a>	<i>regulation of symbiosis, encompassing mutualism through parasitism</i>	0.026 %	-1.0361	0.84	0.73
<a href="#">GO:0043433</a>	<b>negative regulation of sequence-specific DNA binding transcription factor activity</b>	<b>0.022 %</b>	<b>-2.7268</b>	<b>0.77</b>	<b>0.36</b>
<a href="#">GO:0019222</a>	<b>regulation of metabolic process</b>	<b>14.847 %</b>	<b>-1.1533</b>	<b>0.73</b>	<b>0.37</b>
<a href="#">GO:0007166</a>	<b>cell surface receptor signaling pathway</b>	<b>1.204 %</b>	<b>-1.2335</b>	<b>0.67</b>	<b>0.38</b>
<a href="#">GO:0009615</a>	<b>response to virus</b>	<b>0.337 %</b>	<b>-1.1505</b>	<b>0.88</b>	<b>0.42</b>
<a href="#">GO:0014070</a>	<b>response to organic cyclic compound</b>	<b>1.606 %</b>	<b>-1.0154</b>	<b>0.86</b>	<b>0.43</b>
<a href="#">GO:0016137</a>	<b>glycoside metabolic process</b>	<b>0.017 %</b>	<b>-1.1478</b>	<b>0.89</b>	<b>0.43</b>
<a href="#">GO:0019722</a>	<b>calcium-mediated signaling</b>	<b>0.302 %</b>	<b>-1.0361</b>	<b>0.71</b>	<b>0.44</b>
<a href="#">GO:0051592</a>	<b>response to calcium ion</b>	<b>0.052 %</b>	<b>-1.1414</b>	<b>0.89</b>	<b>0.45</b>
<a href="#">GO:2000241</a>	<b>regulation of reproductive process</b>	<b>1.092 %</b>	<b>-1.4160</b>	<b>0.77</b>	<b>0.45</b>
<a href="#">GO:0003006</a>	<i>developmental process involved in reproduction</i>	5.611 %	-1.3002	0.92	0.69
<a href="#">GO:0010228</a>	<i>vegetative to reproductive phase transition of meristem</i>	0.738 %	-1.3262	0.87	0.58
<a href="#">GO:0048831</a>	<i>regulation of shoot system development</i>	0.850 %	-1.1937	0.75	0.80
<a href="#">GO:0009909</a>	<i>regulation of flower development</i>	0.609 %	-1.3913	0.74	0.53
<a href="#">GO:0051090</a>	<b>regulation of sequence-specific DNA binding transcription factor activity</b>	<b>0.052 %</b>	<b>-2.4438</b>	<b>0.76</b>	<b>0.45</b>
<a href="#">GO:0044092</a>	<i>negative regulation of molecular function</i>	1.070 %	-1.7788	0.82	0.60
<a href="#">GO:0009314</a>	<b>response to radiation</b>	<b>2.892 %</b>	<b>-2.7508</b>	<b>0.82</b>	<b>0.45</b>
<a href="#">GO:0009266</a>	<i>response to temperature stimulus</i>	2.287 %	-1.1458	0.83	0.64
<a href="#">GO:0071214</a>	<i>cellular response to abiotic stimulus</i>	0.889 %	-1.3945	0.80	0.56
<a href="#">GO:0009409</a>	<i>response to cold</i>	1.580 %	-1.8328	0.82	0.61
<a href="#">GO:0010600</a>	<b>regulation of auxin biosynthetic process</b>	<b>0.052 %</b>	<b>-1.6279</b>	<b>0.69</b>	<b>0.46</b>
<a href="#">GO:0090354</a>	<i>regulation of auxin metabolic process</i>	0.056 %	-1.4345	0.70	0.96
<a href="#">GO:0032350</a>	<i>regulation of hormone metabolic process</i>	0.073 %	-1.2754	0.72	0.67
<a href="#">GO:0009851</a>	<i>auxin biosynthetic process</i>	0.250 %	-1.0936	0.70	0.84
<a href="#">GO:0046885</a>	<i>regulation of hormone biosynthetic process</i>	0.065 %	-1.3974	0.68	0.97

Biological Process (95) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 18

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0033365</a>	protein localization to organelle	1.148 %		-2.7602	0.63	0.00
<a href="#">GO:0072666</a>	establishment of protein localization to vacuole	0.155 %		-1.3199	0.66	1.00
<a href="#">GO:0072665</a>	protein localization to vacuole	0.155 %		-1.3199	0.67	0.70
<a href="#">GO:0032507</a>	maintenance of protein location in cell	0.078 %		-1.4370	0.52	0.97
<a href="#">GO:0034504</a>	protein localization to nucleus	0.268 %		-2.9005	0.66	0.74
<a href="#">GO:0051457</a>	maintenance of protein location in nucleus	0.013 %		-2.4408	0.55	0.57
<a href="#">GO:0070727</a>	cellular macromolecule localization	2.167 %		-1.5998	0.64	0.82
<a href="#">GO:0006606</a>	protein import into nucleus	0.242 %		-1.3318	0.59	0.87
<a href="#">GO:1902593</a>	single-organism nuclear import	0.242 %		-1.3318	0.63	0.99
<a href="#">GO:0006605</a>	protein targeting	1.006 %		-1.5833	0.63	0.84
<a href="#">GO:0000060</a>	protein import into nucleus, translocation	0.039 %		-2.1684	0.65	0.70
<a href="#">GO:0034613</a>	cellular protein localization	2.016 %		-1.7924	0.62	0.90
<a href="#">GO:0006623</a>	protein targeting to vacuole	0.155 %		-1.3199	0.66	0.70
<a href="#">GO:0006886</a>	intracellular protein transport	1.675 %		-1.1009	0.62	0.94
<a href="#">GO:0051651</a>	maintenance of location in cell	0.155 %		-1.3199	0.52	0.85
<a href="#">GO:0044744</a>	protein targeting to nucleus	0.246 %		-1.3318	0.63	0.98
<a href="#">GO:0008104</a>	protein localization	3.448 %		-1.4749	0.66	0.82
<a href="#">GO:0045185</a>	maintenance of protein location	0.078 %		-1.3655	0.58	0.72

<a href="#">GO:0072594</a>	establishment of protein localization to organelle	0.924 %	-1.6821	0.62	0.84
<a href="#">GO:0051170</a>	nuclear import	0.246 %	-1.2682	0.67	0.89
<a href="#">GO:0072595</a>	maintenance of protein localization in organelle	0.047 %	-1.9306	0.52	0.86
<a href="#">GO:1900000</a>	<b>regulation of anthocyanin catabolic process</b>	<b>0.004 %</b>	<b>-2.3440</b>	<b>0.73</b>	<b>0.00</b>
<a href="#">GO:0031537</a>	regulation of anthocyanin metabolic process	0.095 %	-1.3788	0.73	0.74
<a href="#">GO:0016139</a>	glycoside catabolic process	0.009 %	-1.6754	0.84	0.89
<a href="#">GO:0046149</a>	pigment catabolic process	0.082 %	-1.4423	0.87	0.56
<a href="#">GO:0046284</a>	anthocyanin-containing compound catabolic process	0.004 %	-2.3440	0.82	1.00
<a href="#">GO:0046275</a>	flavonoid catabolic process	0.004 %	-2.3440	0.91	0.54
<a href="#">GO:1901658</a>	glycosyl compound catabolic process	0.211 %	-1.2382	0.83	0.70
<a href="#">GO:0046500</a>	<b>S-adenosylmethionine metabolic process</b>	<b>0.043 %</b>	<b>-1.7342</b>	<b>0.93</b>	<b>0.04</b>
<a href="#">GO:0006556</a>	S-adenosylmethionine biosynthetic process	0.017 %	-1.8834	0.92	0.53
<a href="#">GO:0010076</a>	<b>maintenance of floral meristem identity</b>	<b>0.026 %</b>	<b>-2.0027</b>	<b>0.77</b>	<b>0.06</b>
<a href="#">GO:0019827</a>	stem cell population maintenance	0.216 %	-1.0979	0.81	0.97
<a href="#">GO:0010067</a>	procambium histogenesis	0.039 %	-1.4021	0.78	0.57
<a href="#">GO:0010065</a>	primary meristem tissue development	0.043 %	-1.3318	0.77	0.86
<a href="#">GO:0010582</a>	floral meristem determinacy	0.052 %	-1.5566	0.77	0.69
<a href="#">GO:0048510</a>	regulation of timing of transition from vegetative to reproductive phase	0.164 %	-1.0979	0.68	0.66
<a href="#">GO:0048507</a>	meristem development	0.945 %	-1.0810	0.81	0.59
<a href="#">GO:0048508</a>	embryonic meristem development	0.125 %	-1.0309	0.77	0.71
<a href="#">GO:0048506</a>	regulation of timing of meristematic phase transition	0.164 %	-1.0979	0.68	0.95
<a href="#">GO:0010074</a>	maintenance of meristem identity	0.155 %	-1.2788	0.75	0.86
<a href="#">GO:0010077</a>	maintenance of inflorescence meristem identity	0.039 %	-1.8688	0.77	0.80
<a href="#">GO:0010022</a>	meristem determinacy	0.056 %	-1.5566	0.78	0.72
<a href="#">GO:0030007</a>	<b>cellular potassium ion homeostasis</b>	<b>0.022 %</b>	<b>-1.6488</b>	<b>0.74</b>	<b>0.10</b>
<a href="#">GO:0055075</a>	potassium ion homeostasis	0.069 %	-1.5108	0.76	0.86
<a href="#">GO:0055067</a>	monovalent inorganic cation homeostasis	0.324 %	-1.3238	0.74	0.63
<a href="#">GO:0030004</a>	cellular monovalent inorganic cation homeostasis	0.160 %	-1.4985	0.71	0.92
<a href="#">GO:0006885</a>	regulation of pH	0.255 %	-1.6158	0.74	0.79
<a href="#">GO:0010219</a>	<b>regulation of vernalization response</b>	<b>0.022 %</b>	<b>-2.1983</b>	<b>0.79</b>	<b>0.12</b>
<a href="#">GO:0010048</a>	vernalization response	0.065 %	-1.7557	0.90	0.52
<a href="#">GO:0010220</a>	positive regulation of vernalization response	0.013 %	-2.1983	0.72	0.84
<a href="#">GO:0008356</a>	asymmetric cell division	0.091 %	-1.3568	0.90	0.15
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-1.4585	0.92	0.15
<a href="#">GO:0006730</a>	one-carbon metabolic process	0.164 %	-1.3400	0.87	0.17
<a href="#">GO:0045893</a>	<b>positive regulation of transcription, DNA-templated</b>	<b>1.864 %</b>	<b>-1.3490</b>	<b>0.64</b>	<b>0.24</b>
<a href="#">GO:1903508</a>	positive regulation of nucleic acid-templated transcription	1.869 %	-1.3490	0.64	0.98
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-1.0528	0.67	0.79
<a href="#">GO:0010604</a>	positive regulation of macromolecule metabolic process	2.672 %	-1.1420	0.64	0.92
<a href="#">GO:0009891</a>	positive regulation of biosynthetic process	2.145 %	-1.2188	0.65	0.89
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %	-1.0211	0.71	0.54
<a href="#">GO:1902680</a>	positive regulation of RNA biosynthetic process	1.869 %	-1.3490	0.64	0.97
<a href="#">GO:0031328</a>	positive regulation of cellular biosynthetic process	2.102 %	-1.2301	0.64	0.97
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %	-1.1208	0.64	0.95
<a href="#">GO:0010557</a>	positive regulation of macromolecule biosynthetic process	2.007 %	-1.2700	0.65	0.95
<a href="#">GO:0051254</a>	positive regulation of RNA metabolic process	1.912 %	-1.3490	0.64	0.96
<a href="#">GO:0045935</a>	positive regulation of nucleobase-containing compound metabolic process	2.007 %	-1.3143	0.64	0.96
<a href="#">GO:0051173</a>	positive regulation of nitrogen compound metabolic process	2.119 %	-1.2399	0.65	0.88
<a href="#">GO:0010628</a>	positive regulation of gene expression	2.050 %	-1.2870	0.65	0.90
<a href="#">GO:0009956</a>	<b>radial pattern formation</b>	<b>0.078 %</b>	<b>-1.3007</b>	<b>0.85</b>	<b>0.26</b>
<a href="#">GO:0065008</a>	<b>regulation of biological quality</b>	<b>5.991 %</b>	<b>-1.3888</b>	<b>0.81</b>	<b>0.26</b>
<a href="#">GO:0098727</a>	<b>maintenance of cell number</b>	<b>0.216 %</b>	<b>-1.0979</b>	<b>0.88</b>	<b>0.27</b>
<a href="#">GO:0007034</a>	<b>vacuolar transport</b>	<b>0.293 %</b>	<b>-1.0328</b>	<b>0.78</b>	<b>0.36</b>
<a href="#">GO:0008643</a>	<b>carbohydrate transport</b>	<b>0.630 %</b>	<b>-1.1361</b>	<b>0.70</b>	<b>0.38</b>
<a href="#">GO:0044765</a>	single-organism transport	5.287 %	-1.1047	0.65	0.69
<a href="#">GO:0010817</a>	<b>regulation of hormone levels</b>	<b>1.109 %</b>	<b>-1.3084</b>	<b>0.75</b>	<b>0.41</b>
<a href="#">GO:0051235</a>	maintenance of location	0.302 %	-1.1262	0.63	0.51
<a href="#">GO:0010540</a>	basipetal auxin transport	0.078 %	-1.0486	0.62	0.68
<a href="#">GO:0009690</a>	cytokinin metabolic process	0.168 %	-1.3278	0.75	0.80
<a href="#">GO:0034754</a>	cellular hormone metabolic process	0.263 %	-1.3082	0.75	0.51
<a href="#">GO:0016137</a>	glycoside metabolic process	0.017 %	-1.5363	0.87	0.41
<a href="#">GO:0010100</a>	<b>negative regulation of photomorphogenesis</b>	<b>0.039 %</b>	<b>-1.5363</b>	<b>0.68</b>	<b>0.44</b>
<a href="#">GO:2000030</a>	regulation of response to red or far red light	0.134 %	-1.2614	0.76	0.65
<a href="#">GO:0010099</a>	regulation of photomorphogenesis	0.104 %	-1.3743	0.66	0.90
<a href="#">GO:0048575</a>	<b>short-day photoperiodism, flowering</b>	<b>0.056 %</b>	<b>-1.5046</b>	<b>0.77</b>	<b>0.45</b>
<a href="#">GO:2000028</a>	regulation of photoperiodism, flowering	0.190 %	-1.3880	0.64	0.80
<a href="#">GO:0048572</a>	short-day photoperiodism	0.056 %	-1.5046	0.88	0.73
<a href="#">GO:1901136</a>	<b>carbohydrate derivative catabolic process</b>	<b>0.337 %</b>	<b>-1.0693</b>	<b>0.90</b>	<b>0.46</b>
<a href="#">GO:0051641</a>	<b>cellular localization</b>	<b>3.008 %</b>	<b>-1.3422</b>	<b>0.74</b>	<b>0.46</b>
<a href="#">GO:0071702</a>	organic substance transport	5.585 %	-1.0504	0.72	0.63
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.7125	0.68	0.61



<a href="#">GO:0033036</a>	<i>macromolecule localization</i>	4.519 %	-1.1808	0.73	0.56
<a href="#">GO:0010167</a>	response to nitrate	0.078 %	-1.1463	0.91	0.46
<a href="#">GO:0071281</a>	cellular response to iron ion	0.177 %	-1.1386	0.89	0.47
<a href="#">GO:0071248</a>	<i>cellular response to metal ion</i>	0.216 %	-1.0048	0.89	0.96
<a href="#">GO:0010039</a>	<i>response to iron ion</i>	0.237 %	-1.0012	0.91	0.62
<a href="#">GO:0030104</a>	water homeostasis	0.052 %	-1.3655	0.78	0.50

Biological Process (164) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 19

[Hide/show dispensable GO terms](#) [Export results to text table \(CSV\)](#) [Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0019684</a>	photosynthesis, light reaction	0.505 %		-4.5392	0.86	0.00
<i>GO:0009773</i>	<i>photosynthetic electron transport in photosystem I</i>	<i>0.065 %</i>		<i>-4.4916</i>	<i>0.76</i>	<i>0.71</i>
<i>GO:0042548</i>	<i>regulation of photosynthesis, light reaction</i>	<i>0.108 %</i>		<i>-1.8856</i>	<i>0.82</i>	<i>0.81</i>
<i>GO:0009767</i>	<i>photosynthetic electron transport chain</i>	<i>0.224 %</i>		<i>-3.6239</i>	<i>0.73</i>	<i>0.79</i>
<i>GO:0043467</i>	<i>regulation of generation of precursor metabolites and energy</i>	<i>0.117 %</i>		<i>-1.8014</i>	<i>0.83</i>	<i>0.69</i>
<i>GO:0010206</i>	<i>photosystem II repair</i>	<i>0.056 %</i>		<i>-1.0800</i>	<i>0.87</i>	<i>0.70</i>
<i>GO:0010207</i>	<i>photosystem II assembly</i>	<i>0.086 %</i>		<i>-1.1514</i>	<i>0.86</i>	<i>0.80</i>
<i>GO:0010109</i>	<i>regulation of photosynthesis</i>	<i>0.160 %</i>		<i>-1.5620</i>	<i>0.83</i>	<i>0.77</i>
<i>GO:0022900</i>	<i>electron transport chain</i>	<i>0.479 %</i>		<i>-3.0071</i>	<i>0.74</i>	<i>0.78</i>
<a href="#">GO:0042754</a>	negative regulation of circadian rhythm	0.013 %		-5.3860	0.91	0.00
<i>GO:0007623</i>	<i>circadian rhythm</i>	<i>0.539 %</i>		<i>-1.9825</i>	<i>0.97</i>	<i>0.90</i>
<i>GO:0042752</i>	<i>regulation of circadian rhythm</i>	<i>0.220 %</i>		<i>-2.4990</i>	<i>0.91</i>	<i>0.69</i>
<a href="#">GO:0048511</a>	rhythmic process	0.600 %		-1.9634	0.99	0.00
<a href="#">GO:0034484</a>	raffinose catabolic process	0.004 %		-4.5187	0.82	0.03
<i>GO:0044724</i>	<i>single-organism carbohydrate catabolic process</i>	<i>0.432 %</i>		<i>-1.7969</i>	<i>0.76</i>	<i>0.66</i>
<i>GO:0033530</i>	<i>raffinose metabolic process</i>	<i>0.013 %</i>		<i>-4.0454</i>	<i>0.83</i>	<i>0.56</i>
<i>GO:0009313</i>	<i>oligosaccharide catabolic process</i>	<i>0.039 %</i>		<i>-3.6336</i>	<i>0.79</i>	<i>0.64</i>
<i>GO:0009311</i>	<i>oligosaccharide metabolic process</i>	<i>0.466 %</i>		<i>-1.6970</i>	<i>0.79</i>	<i>0.68</i>
<a href="#">GO:0048574</a>	long-day photoperiodism, flowering	0.121 %		-3.7464	0.70	0.06

<a href="#">GO:0010228</a>	<i>vegetative to reproductive phase transition of meristem</i>	0.738 %	-1.2327	0.81	0.50
<a href="#">GO:0048573</a>	<i>photoperiodism, flowering</i>	0.388 %	-1.9260	0.68	0.90
<a href="#">GO:0010114</a>	<i>response to red light</i>	0.259 %	-1.2214	0.84	0.72
<a href="#">GO:0048571</a>	<i>long-day photoperiodism</i>	0.138 %	-3.4816	0.84	0.82
<a href="#">GO:0009642</a>	<i>response to light intensity</i>	0.587 %	-1.9528	0.83	0.79
<a href="#">GO:0009648</a>	<i>photoperiodism</i>	0.427 %	-1.7216	0.83	0.76
<a href="#">GO:0009416</a>	<i>response to light stimulus</i>	2.771 %	-2.5113	0.80	0.67
<a href="#">GO:0009056</a>	<b>catabolic process</b>	<b>8.118 %</b>	<b>-2.3730</b>	<b>0.94</b>	<b>0.07</b>
<a href="#">GO:0042726</a>	<b>flavin-containing compound metabolic process</b>	<b>0.069 %</b>	<b>-1.2560</b>	<b>0.89</b>	<b>0.07</b>
<a href="#">GO:1902356</a>	<b>oxaloacetate(2-) transmembrane transport</b>	<b>0.022 %</b>	<b>-2.2090</b>	<b>0.82</b>	<b>0.07</b>
<a href="#">GO:0015740</a>	<i>C4-dicarboxylate transport</i>	0.099 %	-1.1585	0.81	0.96
<a href="#">GO:0015743</a>	<i>malate transport</i>	0.086 %	-1.3047	0.81	0.98
<a href="#">GO:0015742</a>	<i>alpha-ketoglutarate transport</i>	0.009 %	-1.9548	0.83	0.75
<a href="#">GO:0006835</a>	<i>dicarboxylic acid transport</i>	0.121 %	-1.1585	0.82	0.71
<a href="#">GO:0015813</a>	<i>L-glutamate transport</i>	0.022 %	-2.0634	0.82	0.79
<a href="#">GO:0015800</a>	<i>acidic amino acid transport</i>	0.035 %	-1.3259	0.83	0.72
<a href="#">GO:0015807</a>	<i>L-amino acid transport</i>	0.078 %	-2.0634	0.82	0.64
<a href="#">GO:0071423</a>	<i>malate transmembrane transport</i>	0.086 %	-1.8682	0.81	0.89
<a href="#">GO:0015729</a>	<i>oxaloacetate transport</i>	0.022 %	-2.2090	0.82	0.82
<a href="#">GO:0019740</a>	<b>nitrogen utilization</b>	<b>0.039 %</b>	<b>-1.1808</b>	<b>0.91</b>	<b>0.07</b>
<a href="#">GO:0007267</a>	<b>cell-cell signaling</b>	<b>0.371 %</b>	<b>-1.2560</b>	<b>0.82</b>	<b>0.08</b>
<a href="#">GO:0015979</a>	<b>photosynthesis</b>	<b>1.057 %</b>	<b>-3.4617</b>	<b>0.92</b>	<b>0.08</b>
<a href="#">GO:0006091</a>	<b>generation of precursor metabolites and energy</b>	<b>1.459 %</b>	<b>-2.4628</b>	<b>0.91</b>	<b>0.09</b>
<a href="#">GO:0006805</a>	<b>xenobiotic metabolic process</b>	<b>0.009 %</b>	<b>-3.5929</b>	<b>0.83</b>	<b>0.12</b>
<a href="#">GO:0071466</a>	<i>cellular response to xenobiotic stimulus</i>	0.009 %	-3.5929	0.86	0.96
<a href="#">GO:0042178</a>	<i>xenobiotic catabolic process</i>	0.004 %	-3.8033	0.81	0.96
<a href="#">GO:0010600</a>	<b>regulation of auxin biosynthetic process</b>	<b>0.052 %</b>	<b>-3.5043</b>	<b>0.81</b>	<b>0.13</b>
<a href="#">GO:0090354</a>	<i>regulation of auxin metabolic process</i>	0.056 %	-3.1081	0.83	0.96
<a href="#">GO:0032350</a>	<i>regulation of hormone metabolic process</i>	0.073 %	-2.7836	0.85	0.67
<a href="#">GO:0009850</a>	<i>auxin metabolic process</i>	0.332 %	-1.6266	0.83	0.90
<a href="#">GO:0009851</a>	<i>auxin biosynthetic process</i>	0.250 %	-2.4135	0.81	0.84
<a href="#">GO:0046885</a>	<i>regulation of hormone biosynthetic process</i>	0.065 %	-3.0324	0.81	0.97
<a href="#">GO:0042445</a>	<i>hormone metabolic process</i>	0.695 %	-1.1666	0.84	0.73
<a href="#">GO:0042446</a>	<i>hormone biosynthetic process</i>	0.514 %	-1.8452	0.82	0.88
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-3.5349</b>	<b>0.84</b>	<b>0.14</b>
<a href="#">GO:0065009</a>	<b>regulation of molecular function</b>	<b>2.443 %</b>	<b>-1.2356</b>	<b>0.92</b>	<b>0.16</b>
<a href="#">GO:0009611</a>	<b>response to wounding</b>	<b>0.816 %</b>	<b>-2.8556</b>	<b>0.89</b>	<b>0.17</b>
<a href="#">GO:0008202</a>	<b>steroid metabolic process</b>	<b>0.427 %</b>	<b>-2.4938</b>	<b>0.77</b>	<b>0.18</b>
<a href="#">GO:0046345</a>	<i>abscisic acid catabolic process</i>	0.022 %	-1.9548	0.70	0.73
<a href="#">GO:0008299</a>	<i>isoprenoid biosynthetic process</i>	0.738 %	-1.7521	0.70	0.96
<a href="#">GO:0033559</a>	<i>unsaturated fatty acid metabolic process</i>	0.112 %	-1.2748	0.72	0.65
<a href="#">GO:0006636</a>	<i>unsaturated fatty acid biosynthetic process</i>	0.108 %	-1.2748	0.70	0.60
<a href="#">GO:0016099</a>	<i>monoterpenoid biosynthetic process</i>	0.004 %	-1.5700	0.78	0.65
<a href="#">GO:0016098</a>	<i>monoterpenoid metabolic process</i>	0.004 %	-1.5700	0.80	0.65
<a href="#">GO:0016114</a>	<i>terpenoid biosynthetic process</i>	0.591 %	-2.0087	0.70	0.55
<a href="#">GO:0008610</a>	<i>lipid biosynthetic process</i>	2.464 %	-1.1629	0.72	0.69
<a href="#">GO:0006720</a>	<i>isoprenoid metabolic process</i>	0.850 %	-1.5672	0.73	0.67
<a href="#">GO:0006721</a>	<i>terpenoid metabolic process</i>	0.699 %	-1.7861	0.72	0.94
<a href="#">GO:0009410</a>	<b>response to xenobiotic stimulus</b>	<b>0.013 %</b>	<b>-2.5370</b>	<b>0.90</b>	<b>0.20</b>
<a href="#">GO:0009696</a>	<b>salicylic acid metabolic process</b>	<b>0.121 %</b>	<b>-1.9220</b>	<b>0.73</b>	<b>0.23</b>
<a href="#">GO:0032787</a>	<i>monocarboxylic acid metabolic process</i>	2.128 %	-1.4292	0.69	0.82
<a href="#">GO:0006067</a>	<i>ethanol metabolic process</i>	0.004 %	-1.5700	0.81	0.75
<a href="#">GO:0043436</a>	<i>oxoacid metabolic process</i>	5.002 %	-1.2488	0.67	0.93
<a href="#">GO:0019752</a>	<i>carboxylic acid metabolic process</i>	4.437 %	-1.5554	0.68	0.58
<a href="#">GO:0006082</a>	<i>organic acid metabolic process</i>	5.015 %	-1.1269	0.69	0.79
<a href="#">GO:0034308</a>	<i>primary alcohol metabolic process</i>	0.052 %	-1.1109	0.79	0.60
<a href="#">GO:0006069</a>	<i>ethanol oxidation</i>	0.004 %	-1.5700	0.81	0.51
<a href="#">GO:0009694</a>	<i>jasmonic acid metabolic process</i>	0.117 %	-1.7304	0.75	0.56
<a href="#">GO:0009904</a>	<b>chloroplast accumulation movement</b>	<b>0.095 %</b>	<b>-1.3599</b>	<b>0.86</b>	<b>0.24</b>
<a href="#">GO:0019750</a>	<i>chloroplast localization</i>	0.134 %	-1.0045	0.90	1.00
<a href="#">GO:0009903</a>	<i>chloroplast avoidance movement</i>	0.112 %	-1.2381	0.86	0.97
<a href="#">GO:0009902</a>	<i>chloroplast relocation</i>	0.129 %	-1.0045	0.86	0.99
<a href="#">GO:0051667</a>	<i>establishment of plastid localization</i>	0.129 %	-1.0045	0.90	0.99
<a href="#">GO:0051644</a>	<i>plastid localization</i>	0.134 %	-1.0045	0.90	0.84
<a href="#">GO:0006081</a>	<b>cellular aldehyde metabolic process</b>	<b>0.311 %</b>	<b>-1.6790</b>	<b>0.79</b>	<b>0.25</b>
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-2.7007</b>	<b>0.88</b>	<b>0.27</b>
<a href="#">GO:0035966</a>	<b>response to topologically incorrect protein</b>	<b>0.151 %</b>	<b>-1.0800</b>	<b>0.87</b>	<b>0.30</b>
<a href="#">GO:0006986</a>	<b>response to unfolded protein</b>	<b>0.091 %</b>	<b>-1.1658</b>	<b>0.86</b>	<b>0.33</b>
<a href="#">GO:0035967</a>	<i>cellular response to topologically incorrect protein</i>	0.112 %	-1.1658	0.83	0.94
<a href="#">GO:0034620</a>	<i>cellular response to unfolded protein</i>	0.065 %	-1.1658	0.83	0.90
<a href="#">GO:0044712</a>	<b>single-organism catabolic process</b>	<b>2.676 %</b>	<b>-1.9060</b>	<b>0.75</b>	<b>0.34</b>

<a href="#">GO:0016052</a>	carbohydrate catabolic process	1.187 %	-1.7721	0.87	0.57
<a href="#">GO:1901575</a>	organic substance catabolic process	7.402 %	-1.6149	0.87	0.74
<a href="#">GO:0009814</a>	<b>defense response, incompatible interaction</b>	<b>0.725 %</b>	<b>-1.1573</b>	<b>0.88</b>	<b>0.34</b>
<a href="#">GO:0009627</a>	systemic acquired resistance	0.281 %	-1.2049	0.89	0.78
<a href="#">GO:0007389</a>	pattern specification process	0.742 %	-1.4455	0.82	0.35
<a href="#">GO:0016139</a>	<b>glycoside catabolic process</b>	<b>0.009 %</b>	<b>-2.8018</b>	<b>0.82</b>	<b>0.36</b>
<a href="#">GO:1901658</a>	glycosyl compound catabolic process	0.211 %	-1.9345	0.78	0.73
<a href="#">GO:0048838</a>	<b>release of seed from dormancy</b>	<b>0.009 %</b>	<b>-1.4669</b>	<b>0.85</b>	<b>0.36</b>
<a href="#">GO:0097438</a>	exit from dormancy	0.009 %	-1.4669	0.86	0.70
<a href="#">GO:0043433</a>	<b>negative regulation of sequence-specific DNA binding transcription factor activity</b>	<b>0.022 %</b>	<b>-4.3169</b>	<b>0.84</b>	<b>0.36</b>
<a href="#">GO:1900033</a>	<b>negative regulation of trichome patterning</b>	<b>0.022 %</b>	<b>-2.2090</b>	<b>0.66</b>	<b>0.38</b>
<a href="#">GO:0045168</a>	cell-cell signaling involved in cell fate commitment	0.168 %	-1.8682	0.72	0.76
<a href="#">GO:0003002</a>	regionalization	0.617 %	-1.6298	0.80	0.72
<a href="#">GO:1903888</a>	regulation of plant epidermal cell differentiation	0.009 %	-1.9548	0.73	0.67
<a href="#">GO:0010455</a>	positive regulation of cell fate commitment	0.013 %	-1.5900	0.69	0.89
<a href="#">GO:0010454</a>	negative regulation of cell fate commitment	0.022 %	-2.2090	0.69	0.91
<a href="#">GO:0010453</a>	regulation of cell fate commitment	0.047 %	-1.5510	0.69	0.81
<a href="#">GO:1903890</a>	positive regulation of plant epidermal cell differentiation	0.009 %	-1.9548	0.71	1.00
<a href="#">GO:1900457</a>	regulation of brassinosteroid mediated signaling pathway	0.017 %	-1.3259	0.75	0.52
<a href="#">GO:1900459</a>	positive regulation of brassinosteroid mediated signaling pathway	0.013 %	-1.3259	0.73	0.66
<a href="#">GO:0045597</a>	positive regulation of cell differentiation	0.030 %	-1.2044	0.70	0.72
<a href="#">GO:0045596</a>	negative regulation of cell differentiation	0.052 %	-1.0921	0.70	0.76
<a href="#">GO:0010057</a>	trichoblast fate specification	0.009 %	-2.0057	0.74	1.00
<a href="#">GO:0048629</a>	trichome patterning	0.030 %	-1.8682	0.73	0.78
<a href="#">GO:0010063</a>	positive regulation of trichoblast fate specification	0.009 %	-2.0057	0.67	0.86
<a href="#">GO:0010061</a>	regulation of trichoblast fate specification	0.009 %	-2.0057	0.68	1.00
<a href="#">GO:0042660</a>	positive regulation of cell fate specification	0.009 %	-1.9548	0.69	0.96
<a href="#">GO:0042659</a>	regulation of cell fate specification	0.017 %	-1.9548	0.69	0.89
<a href="#">GO:0010051</a>	xylem and phloem pattern formation	0.259 %	-1.6921	0.81	0.88
<a href="#">GO:1900032</a>	regulation of trichome patterning	0.022 %	-2.2090	0.67	0.96
<a href="#">GO:0090628</a>	plant epidermal cell fate specification	0.009 %	-1.9548	0.76	0.64
<a href="#">GO:0006814</a>	<b>sodium ion transport</b>	<b>0.121 %</b>	<b>-1.3151</b>	<b>0.92</b>	<b>0.40</b>
<a href="#">GO:0019509</a>	<b>L-methionine biosynthetic process from methylthioadenosine</b>	<b>0.039 %</b>	<b>-1.6561</b>	<b>0.72</b>	<b>0.41</b>
<a href="#">GO:0006547</a>	histidine metabolic process	0.047 %	-1.3718	0.74	1.00
<a href="#">GO:0071265</a>	L-methionine biosynthetic process	0.052 %	-1.4519	0.72	0.88
<a href="#">GO:0071267</a>	L-methionine salvage	0.043 %	-1.6561	0.72	0.99
<a href="#">GO:0000105</a>	histidine biosynthetic process	0.047 %	-1.3718	0.73	0.61
<a href="#">GO:0009086</a>	methionine biosynthetic process	0.112 %	-1.0351	0.71	0.92
<a href="#">GO:0019676</a>	ammonia assimilation cycle	0.026 %	-1.4099	0.76	0.53
<a href="#">GO:0043102</a>	amino acid salvage	0.043 %	-1.6561	0.73	0.70
<a href="#">GO:0009723</a>	<b>response to ethylene</b>	<b>1.269 %</b>	<b>-1.0183</b>	<b>0.85</b>	<b>0.41</b>
<a href="#">GO:0006629</a>	<b>lipid metabolic process</b>	<b>4.683 %</b>	<b>-1.5412</b>	<b>0.77</b>	<b>0.41</b>
<a href="#">GO:0009414</a>	<b>response to water deprivation</b>	<b>1.390 %</b>	<b>-3.1884</b>	<b>0.79</b>	<b>0.42</b>
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-1.7711	0.84	0.50
<a href="#">GO:1901700</a>	response to oxygen-containing compound	6.504 %	-1.0552	0.84	0.64
<a href="#">GO:0009753</a>	response to jasmonic acid	0.919 %	-2.2626	0.85	0.63
<a href="#">GO:0009751</a>	response to salicylic acid	0.876 %	-1.0846	0.84	0.63
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-1.3286	0.85	0.61
<a href="#">GO:0009269</a>	response to desiccation	0.073 %	-2.2765	0.84	0.73
<a href="#">GO:0009314</a>	response to radiation	2.892 %	-2.4607	0.83	0.60
<a href="#">GO:0071214</a>	cellular response to abiotic stimulus	0.889 %	-1.2996	0.81	0.52
<a href="#">GO:0009415</a>	response to water	1.416 %	-3.1342	0.80	0.74
<a href="#">GO:0016137</a>	glycoside metabolic process	0.017 %	-2.5238	0.83	0.43
<a href="#">GO:0009657</a>	plastid organization	1.032 %	-1.1666	0.93	0.44
<a href="#">GO:0046471</a>	phosphatidylglycerol metabolic process	0.047 %	-2.0057	0.78	0.45
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-2.0450</b>	<b>0.87</b>	<b>0.45</b>
<a href="#">GO:1905423</a>	<b>positive regulation of plant organ morphogenesis</b>	<b>0.009 %</b>	<b>-1.9548</b>	<b>0.77</b>	<b>0.45</b>
<a href="#">GO:2000067</a>	regulation of root morphogenesis	0.039 %	-1.2748	0.76	0.82
<a href="#">GO:1905421</a>	regulation of plant organ morphogenesis	0.086 %	-1.1808	0.76	0.64
<a href="#">GO:1900057</a>	positive regulation of leaf senescence	0.039 %	-1.8306	0.76	0.64
<a href="#">GO:1900055</a>	regulation of leaf senescence	0.104 %	-1.1173	0.76	0.83
<a href="#">GO:0009231</a>	<b>riboflavin biosynthetic process</b>	<b>0.052 %</b>	<b>-1.2748</b>	<b>0.73</b>	<b>0.45</b>
<a href="#">GO:0042727</a>	flavin-containing compound biosynthetic process	0.056 %	-1.2748	0.86	0.97
<a href="#">GO:0006771</a>	riboflavin metabolic process	0.052 %	-1.2748	0.76	0.96
<a href="#">GO:0051090</a>	<b>regulation of sequence-specific DNA binding transcription factor activity</b>	<b>0.052 %</b>	<b>-3.8869</b>	<b>0.84</b>	<b>0.45</b>
<a href="#">GO:0044092</a>	negative regulation of molecular function	1.070 %	-2.8763	0.91	0.60
<a href="#">GO:0010117</a>	<b>photoprotection</b>	<b>0.026 %</b>	<b>-3.2515</b>	<b>0.86</b>	<b>0.47</b>
<a href="#">GO:0071484</a>	<b>cellular response to light intensity</b>	<b>0.043 %</b>	<b>-2.8989</b>	<b>0.82</b>	<b>0.48</b>
<a href="#">GO:0009644</a>	response to high light intensity	0.324 %	-2.5505	0.83	0.76
<a href="#">GO:0071482</a>	cellular response to light stimulus	0.561 %	-1.9476	0.79	0.79
<a href="#">GO:0071478</a>	cellular response to radiation	0.583 %	-1.9476	0.79	0.91

<a href="#">GO:0055114</a>	oxidation-reduction process	7.462 %	-2.2370	0.76	0.49
<a href="#">GO:0080167</a>	response to karrikin	0.531 %	-1.0363	0.85	0.49
<a href="#">GO:1901136</a>	carbohydrate derivative catabolic process	0.337 %	-1.6058	0.89	0.50

Biological Process (67) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 20

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0031396</a>	regulation of protein ubiquitination	0.078 %		-2.2706	0.84	0.00
<a href="#">GO:1903320</a>	<i>regulation of protein modification by small protein conjugation or removal</i>	0.082 %		-2.2706	0.84	0.69
<a href="#">GO:0045471</a>	response to ethanol	0.613 %		-2.3119	0.87	0.00
<a href="#">GO:0006461</a>	protein complex assembly	1.303 %		-1.1783	0.84	0.04
<a href="#">GO:0070271</a>	<i>protein complex biogenesis</i>	1.334 %		-1.1559	0.91	0.62
<a href="#">GO:0071822</a>	<i>protein complex subunit organization</i>	1.528 %		-1.1293	0.86	0.67
<a href="#">GO:0051259</a>	<i>protein oligomerization</i>	0.224 %		-1.1153	0.86	0.82
<a href="#">GO:0065003</a>	<i>macromolecular complex assembly</i>	3.220 %		-1.0243	0.84	0.80
<a href="#">GO:0006642</a>	triglyceride mobilization	0.004 %		-2.2706	0.77	0.05
<a href="#">GO:0006639</a>	<i>acylglycerol metabolic process</i>	0.147 %		-1.3952	0.73	0.99
<a href="#">GO:0006641</a>	<i>triglyceride metabolic process</i>	0.129 %		-1.4917	0.73	0.78
<a href="#">GO:0006085</a>	acetyl-CoA biosynthetic process	0.056 %		-1.9331	0.70	0.06
<a href="#">GO:0006732</a>	<i>coenzyme metabolic process</i>	1.191 %		-1.2331	0.80	0.67
<a href="#">GO:0006637</a>	<i>acyl-CoA metabolic process</i>	0.151 %		-1.4323	0.71	0.97
<a href="#">GO:0071616</a>	<i>acyl-CoA biosynthetic process</i>	0.082 %		-1.7023	0.70	0.97
<a href="#">GO:0035383</a>	<i>thioester metabolic process</i>	0.151 %		-1.4323	0.80	0.60
<a href="#">GO:0035384</a>	<i>thioester biosynthetic process</i>	0.082 %		-1.7023	0.74	0.89
<a href="#">GO:0006086</a>	<i>acetyl-CoA biosynthetic process from pyruvate</i>	0.035 %		-2.0822	0.59	0.92
<a href="#">GO:0006084</a>	<i>acetyl-CoA metabolic process</i>	0.108 %		-1.6002	0.72	0.93

<a href="#">GO:0015749</a>	monosaccharide transport	0.229 %	-1.9331	0.88	0.06
<a href="#">GO:0006874</a>	cellular calcium ion homeostasis	0.047 %	-1.4729	0.78	0.13
<a href="#">GO:0055074</a>	calcium ion homeostasis	0.060 %	-1.2731	0.89	0.86
<a href="#">GO:0072507</a>	divalent inorganic cation homeostasis	0.147 %	-1.0648	0.90	0.63
<a href="#">GO:0072503</a>	cellular divalent inorganic cation homeostasis	0.099 %	-1.2167	0.77	0.91
<a href="#">GO:0019563</a>	glycerol catabolic process	0.017 %	-2.2706	0.63	0.15
<a href="#">GO:0019400</a>	alditol metabolic process	0.117 %	-1.7465	0.62	0.89
<a href="#">GO:0019405</a>	alditol catabolic process	0.017 %	-2.2706	0.63	0.85
<a href="#">GO:1901616</a>	organic hydroxy compound catabolic process	0.121 %	-1.3474	0.77	0.56
<a href="#">GO:0019751</a>	polyol metabolic process	0.246 %	-1.1391	0.66	0.72
<a href="#">GO:0046174</a>	polyol catabolic process	0.060 %	-1.4550	0.64	0.92
<a href="#">GO:0046164</a>	alcohol catabolic process	0.082 %	-1.4213	0.65	0.85
<a href="#">GO:0044275</a>	cellular carbohydrate catabolic process	0.298 %	-1.0281	0.74	0.61
<a href="#">GO:0006071</a>	glycerol metabolic process	0.117 %	-1.7465	0.61	0.88
<a href="#">GO:0010187</a>	negative regulation of seed germination	0.073 %	-1.2807	0.88	0.15
<a href="#">GO:0046184</a>	aldehyde biosynthetic process	0.052 %	-2.1662	0.73	0.17
<a href="#">GO:0019682</a>	glyceraldehyde-3-phosphate metabolic process	0.168 %	-1.1790	0.65	0.83
<a href="#">GO:0046166</a>	glyceraldehyde-3-phosphate biosynthetic process	0.009 %	-2.2706	0.69	0.68
<a href="#">GO:0009644</a>	response to high light intensity	0.324 %	-1.6567	0.87	0.18
<a href="#">GO:0009642</a>	response to light intensity	0.587 %	-1.3424	0.86	0.64
<a href="#">GO:1901137</a>	carbohydrate derivative biosynthetic process	1.800 %	-1.1889	0.79	0.20
<a href="#">GO:0009100</a>	glycoprotein metabolic process	0.496 %	-1.0022	0.81	0.70
<a href="#">GO:0009101</a>	glycoprotein biosynthetic process	0.488 %	-1.0022	0.77	0.99
<a href="#">GO:0043413</a>	macromolecule glycosylation	0.483 %	-1.0022	0.75	0.97
<a href="#">GO:0006486</a>	protein glycosylation	0.483 %	-1.0022	0.66	0.70
<a href="#">GO:0031668</a>	cellular response to extracellular stimulus	0.691 %	-1.2209	0.80	0.20
<a href="#">GO:0042631</a>	cellular response to water deprivation	0.129 %	-1.1418	0.75	0.84
<a href="#">GO:0009991</a>	response to extracellular stimulus	0.777 %	-1.1172	0.87	0.53
<a href="#">GO:0009970</a>	cellular response to sulfate starvation	0.052 %	-1.3474	0.81	0.78
<a href="#">GO:0071496</a>	cellular response to external stimulus	0.712 %	-1.2006	0.87	0.52
<a href="#">GO:0006081</a>	cellular aldehyde metabolic process	0.311 %	-1.0763	0.77	0.21
<a href="#">GO:0080022</a>	primary root development	0.091 %	-1.2439	0.90	0.28
<a href="#">GO:0080160</a>	selenate transport	0.077 %	-1.8986	0.95	0.29
<a href="#">GO:0046685</a>	response to arsenic-containing substance	0.060 %	-1.3952	0.89	0.29
<a href="#">GO:0046688</a>	response to copper ion	0.069 %	-1.2167	0.88	0.30
<a href="#">GO:0006090</a>	pyruvate metabolic process	0.384 %	-1.9536	0.71	0.34
<a href="#">GO:0071472</a>	cellular response to salt stress	0.147 %	-1.1473	0.80	0.38
<a href="#">GO:0071462</a>	cellular response to water stimulus	0.129 %	-1.1418	0.79	0.71
<a href="#">GO:0071470</a>	cellular response to osmotic stress	0.207 %	-1.0302	0.80	0.74
<a href="#">GO:1990267</a>	response to transition metal nanoparticle	2.017 %	-1.4520	0.87	0.41
<a href="#">GO:0009395</a>	phospholipid catabolic process	0.052 %	-1.8227	0.67	0.43
<a href="#">GO:0006638</a>	neutral lipid metabolic process	0.147 %	-1.3952	0.75	0.47
<a href="#">GO:0006094</a>	gluconeogenesis	0.095 %	-1.5180	0.67	0.47
<a href="#">GO:0046364</a>	monosaccharide biosynthetic process	0.237 %	-1.3565	0.66	0.80
<a href="#">GO:0006006</a>	glucose metabolic process	0.199 %	-1.2200	0.68	0.87
<a href="#">GO:0019319</a>	hexose biosynthetic process	0.104 %	-1.3901	0.67	0.87
<a href="#">GO:0046434</a>	organophosphate catabolic process	0.112 %	-1.2769	0.78	0.49
<a href="#">GO:0008643</a>	carbohydrate transport	0.630 %	-1.1052	0.88	0.50

## Biological Process (171) Tag Clouds

Scatterplot & Table    Interactive Graph    TreeMap

## GROUP 21

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0010105</a>	negative regulation of ethylene-activated signaling pathway	0.073 %		-4.1611	0.53	0.00
<a href="#">GO:0001933</a>	negative regulation of protein phosphorylation	0.134 %		-1.7739	0.55	0.99
<a href="#">GO:0048523</a>	negative regulation of cellular process	2.719 %		-1.9746	0.57	0.74
<a href="#">GO:0001932</a>	regulation of protein phosphorylation	0.432 %		-1.0558	0.62	0.98
<a href="#">GO:0045859</a>	regulation of protein kinase activity	0.423 %		-1.1008	0.56	0.90
<a href="#">GO:0045861</a>	negative regulation of proteolysis	0.181 %		-1.8823	0.56	0.88
<a href="#">GO:0032269</a>	negative regulation of cellular protein metabolic process	0.673 %		-2.2148	0.53	0.64
<a href="#">GO:0023057</a>	negative regulation of signaling	0.345 %		-3.4474	0.57	0.69
<a href="#">GO:0032268</a>	regulation of cellular protein metabolic process	1.921 %		-1.2369	0.63	0.84
<a href="#">GO:0010466</a>	negative regulation of peptidase activity	0.173 %		-1.8823	0.51	0.99
<a href="#">GO:0009740</a>	gibberellic acid mediated signaling pathway	0.341 %		-1.1056	0.63	0.88
<a href="#">GO:0051248</a>	negative regulation of protein metabolic process	0.678 %		-2.2148	0.57	0.75
<a href="#">GO:0010476</a>	gibberellin mediated signaling pathway	0.345 %		-1.0600	0.63	0.99
<a href="#">GO:0010951</a>	negative regulation of endopeptidase activity	0.168 %		-1.8823	0.51	0.87
<a href="#">GO:0052548</a>	regulation of endopeptidase activity	0.173 %		-1.8823	0.62	0.99
<a href="#">GO:0042325</a>	regulation of phosphorylation	0.462 %		-1.0350	0.67	0.95
<a href="#">GO:0042326</a>	negative regulation of phosphorylation	0.138 %		-1.7621	0.58	0.97
<a href="#">GO:0048585</a>	negative regulation of response to stimulus	0.699 %		-2.4392	0.59	0.59



<a href="#">GO:0010104</a>	regulation of ethylene-activated signaling pathway	0.095 %	-3.5537	0.63	0.98
<a href="#">GO:0030162</a>	regulation of proteolysis	0.591 %	-1.7286	0.67	0.74
<a href="#">GO:0010648</a>	negative regulation of cell communication	0.345 %	-3.4474	0.58	0.69
<a href="#">GO:0045936</a>	negative regulation of phosphate metabolic process	0.164 %	-1.6076	0.57	0.99
<a href="#">GO:0009788</a>	negative regulation of abscisic acid-activated signaling pathway	0.160 %	-1.0077	0.52	0.93
<a href="#">GO:0071369</a>	cellular response to ethylene stimulus	0.906 %	-1.8558	0.80	0.91
<a href="#">GO:0071370</a>	cellular response to gibberellin stimulus	0.354 %	-1.0310	0.80	0.89
<a href="#">GO:2000117</a>	negative regulation of cysteine-type endopeptidase activity	0.004 %	-2.1819	0.60	0.66
<a href="#">GO:1902531</a>	regulation of intracellular signal transduction	0.229 %	-2.8240	0.64	0.76
<a href="#">GO:1902532</a>	negative regulation of intracellular signal transduction	0.091 %	-4.1611	0.55	0.85
<a href="#">GO:0070298</a>	negative regulation of phosphorelay signal transduction system	0.073 %	-4.1611	0.55	0.97
<a href="#">GO:0009873</a>	ethylene-activated signaling pathway	0.811 %	-2.0985	0.61	0.77
<a href="#">GO:0070297</a>	regulation of phosphorelay signal transduction system	0.095 %	-3.5537	0.65	0.87
<a href="#">GO:0000160</a>	phosphorelay signal transduction system	1.049 %	-2.0530	0.64	0.57
<a href="#">GO:0010563</a>	negative regulation of phosphorus metabolic process	0.164 %	-1.6076	0.58	0.68
<a href="#">GO:0006469</a>	negative regulation of protein kinase activity	0.134 %	-1.7739	0.50	0.85
<a href="#">GO:0043549</a>	regulation of kinase activity	0.427 %	-1.0799	0.59	0.98
<a href="#">GO:0009968</a>	negative regulation of signal transduction	0.332 %	-3.4691	0.52	0.89
<a href="#">GO:0009966</a>	regulation of signal transduction	1.109 %	-2.1637	0.60	0.87
<a href="#">GO:0033673</a>	negative regulation of kinase activity	0.134 %	-1.7739	0.51	0.99
<a href="#">GO:0009937</a>	regulation of gibberellic acid mediated signaling pathway	0.073 %	-1.3078	0.64	0.73
<a href="#">GO:0009939</a>	positive regulation of gibberellic acid mediated signaling pathway	0.026 %	-1.8384	0.66	0.58
<a href="#">GO:1901420</a>	negative regulation of response to alcohol	0.160 %	-1.0077	0.60	0.72
<a href="#">GO:0031400</a>	negative regulation of protein modification process	0.220 %	-1.4946	0.57	0.89
<a href="#">GO:0000280</a>	<b>nuclear division</b>	<b>1.079 %</b>	<b>-1.8821</b>	<b>0.85</b>	<b>0.04</b>
<a href="#">GO:0048285</a>	organelle fission	1.239 %	-1.7040	0.87	0.58
<a href="#">GO:0007126</a>	meiotic nuclear division	0.470 %	-1.0411	0.70	0.88
<a href="#">GO:0007067</a>	mitotic nuclear division	0.699 %	-1.1625	0.73	0.91
<a href="#">GO:0051783</a>	regulation of nuclear division	0.181 %	-1.4262	0.71	0.80
<a href="#">GO:1903046</a>	meiotic cell cycle process	0.613 %	-1.0370	0.74	0.94
<a href="#">GO:0040020</a>	regulation of meiotic nuclear division	0.047 %	-1.5917	0.62	0.71
<a href="#">GO:0048838</a>	<b>release of seed from dormancy</b>	<b>0.009 %</b>	<b>-1.8823</b>	<b>0.85</b>	<b>0.06</b>
<a href="#">GO:2000034</a>	regulation of seed maturation	0.060 %	-1.5009	0.71	0.83
<a href="#">GO:2000033</a>	regulation of seed dormancy process	0.039 %	-1.7861	0.70	0.90
<a href="#">GO:1902039</a>	negative regulation of seed dormancy process	0.009 %	-2.0498	0.63	0.82
<a href="#">GO:2000692</a>	negative regulation of seed maturation	0.017 %	-1.8671	0.62	0.65
<a href="#">GO:0010162</a>	seed dormancy process	0.142 %	-1.2700	0.82	0.91
<a href="#">GO:0097438</a>	exit from dormancy	0.009 %	-1.8823	0.88	0.70
<a href="#">GO:0071836</a>	<b>nectar secretion</b>	<b>0.017 %</b>	<b>-2.5491</b>	<b>0.84</b>	<b>0.06</b>
<a href="#">GO:0009395</a>	<b>phospholipid catabolic process</b>	<b>0.052 %</b>	<b>-1.8384</b>	<b>0.76</b>	<b>0.07</b>
<a href="#">GO:0010212</a>	<b>response to ionizing radiation</b>	<b>0.129 %</b>	<b>-1.5404</b>	<b>0.92</b>	<b>0.14</b>
<a href="#">GO:0043086</a>	<b>negative regulation of catalytic activity</b>	<b>1.019 %</b>	<b>-3.2132</b>	<b>0.68</b>	<b>0.15</b>
<a href="#">GO:0052547</a>	regulation of peptidase activity	0.181 %	-1.8823	0.63	0.68
<a href="#">GO:0034762</a>	regulation of transmembrane transport	0.216 %	-1.1203	0.66	0.81
<a href="#">GO:0034763</a>	negative regulation of transmembrane transport	0.017 %	-1.7621	0.59	0.95
<a href="#">GO:0010360</a>	negative regulation of anion channel activity	0.017 %	-1.7621	0.53	0.68
<a href="#">GO:0010359</a>	regulation of anion channel activity	0.047 %	-1.2034	0.60	0.91
<a href="#">GO:0034765</a>	regulation of ion transmembrane transport	0.207 %	-1.1203	0.64	0.92
<a href="#">GO:0034766</a>	negative regulation of ion transmembrane transport	0.017 %	-1.7621	0.58	1.00
<a href="#">GO:1903960</a>	negative regulation of anion transmembrane transport	0.017 %	-1.7621	0.58	1.00
<a href="#">GO:1903959</a>	regulation of anion transmembrane transport	0.129 %	-1.2034	0.65	0.95
<a href="#">GO:2000116</a>	regulation of cysteine-type endopeptidase activity	0.004 %	-2.1819	0.70	0.51
<a href="#">GO:0022898</a>	regulation of transmembrane transporter activity	0.060 %	-1.1331	0.61	1.00
<a href="#">GO:0050790</a>	regulation of catalytic activity	2.257 %	-1.7057	0.67	0.87
<a href="#">GO:0051338</a>	regulation of transferase activity	0.522 %	-1.0391	0.71	0.75
<a href="#">GO:0051336</a>	regulation of hydrolase activity	0.781 %	-1.0370	0.70	0.79
<a href="#">GO:0051348</a>	negative regulation of transferase activity	0.151 %	-1.7621	0.71	0.81
<a href="#">GO:0051346</a>	negative regulation of hydrolase activity	0.194 %	-1.7739	0.71	0.83
<a href="#">GO:0032412</a>	regulation of ion transmembrane transporter activity	0.060 %	-1.1331	0.60	0.98
<a href="#">GO:0032410</a>	negative regulation of transporter activity	0.017 %	-1.7621	0.54	0.95
<a href="#">GO:0032413</a>	negative regulation of ion transmembrane transporter activity	0.017 %	-1.7621	0.53	1.00
<a href="#">GO:0044070</a>	regulation of anion transport	0.164 %	-1.2004	0.65	0.77
<a href="#">GO:1903792</a>	negative regulation of anion transport	0.017 %	-1.7621	0.58	0.95
<a href="#">GO:0044092</a>	negative regulation of molecular function	1.070 %	-2.5190	0.69	0.79
<a href="#">GO:0043271</a>	negative regulation of ion transport	0.026 %	-1.5202	0.58	0.98
<a href="#">GO:0043269</a>	regulation of ion transport	0.302 %	-1.0153	0.65	0.85
<a href="#">GO:1990778</a>	<b>protein localization to cell periphery</b>	<b>0.022 %</b>	<b>-1.6685</b>	<b>0.89</b>	<b>0.21</b>
<a href="#">GO:0048519</a>	<b>negative regulation of biological process</b>	<b>3.716 %</b>	<b>-1.4006</b>	<b>0.75</b>	<b>0.23</b>
<a href="#">GO:0009913</a>	<b>epidermal cell differentiation</b>	<b>0.069 %</b>	<b>-1.2773</b>	<b>0.83</b>	<b>0.23</b>

<a href="#">GO:0008544</a>	epidermis development	0.069 %	-1.2159	0.94	0.50
<a href="#">GO:0060429</a>	epithelium development	0.082 %	-1.1570	0.94	0.51
<a href="#">GO:0030855</a>	epithelial cell differentiation	0.069 %	-1.2773	0.83	0.98
<a href="#">GO:0065009</a>	<b>regulation of molecular function</b>	<b>2.443 %</b>	<b>-1.3589</b>	<b>0.79</b>	<b>0.26</b>
<a href="#">GO:0022611</a>	dormancy process	0.142 %	-1.2700	0.95	0.26
<a href="#">GO:0007009</a>	<b>plasma membrane organization</b>	<b>0.022 %</b>	<b>-1.6326</b>	<b>0.82</b>	<b>0.27</b>
<a href="#">GO:0072661</a>	protein targeting to plasma membrane	0.013 %	-1.6685	0.75	0.66
<a href="#">GO:0072657</a>	protein localization to membrane	0.259 %	-1.1767	0.72	0.65
<a href="#">GO:0072659</a>	protein localization to plasma membrane	0.013 %	-1.6685	0.75	0.94
<a href="#">GO:0090002</a>	establishment of protein localization to plasma membrane	0.013 %	-1.6685	0.75	1.00
<a href="#">GO:0006612</a>	protein targeting to membrane	0.168 %	-1.2593	0.72	0.96
<a href="#">GO:0090150</a>	establishment of protein localization to membrane	0.259 %	-1.1767	0.71	0.80
<a href="#">GO:0000919</a>	<b>cell plate assembly</b>	<b>0.052 %</b>	<b>-1.4006</b>	<b>0.78</b>	<b>0.29</b>
<a href="#">GO:0032506</a>	cytokinetic process	0.203 %	-1.1279	0.78	0.80
<a href="#">GO:1902410</a>	mitotic cytokinetic process	0.203 %	-1.1279	0.78	0.99
<a href="#">GO:0000911</a>	cytokinesis by cell plate formation	0.194 %	-1.1570	0.78	0.90
<a href="#">GO:0009920</a>	cell plate formation involved in plant-type cell wall biogenesis	0.030 %	-1.5268	0.77	0.80
<a href="#">GO:0006820</a>	<b>anion transport</b>	<b>1.524 %</b>	<b>-1.4246</b>	<b>0.84</b>	<b>0.30</b>
<a href="#">GO:0051246</a>	regulation of protein metabolic process	2.123 %	-1.1635	0.70	0.30
<a href="#">GO:0043467</a>	regulation of generation of precursor metabolites and energy	0.117 %	-1.1543	0.75	0.31
<a href="#">GO:0048583</a>	regulation of response to stimulus	2.521 %	-1.1683	0.73	0.31
<a href="#">GO:0009719</a>	response to endogenous stimulus	7.359 %	-1.3527	0.90	0.32
<a href="#">GO:0010030</a>	<b>positive regulation of seed germination</b>	<b>0.069 %</b>	<b>-1.4315</b>	<b>0.74</b>	<b>0.32</b>
<a href="#">GO:0080050</a>	regulation of seed development	0.129 %	-1.2961	0.71	0.62
<a href="#">GO:2000242</a>	negative regulation of reproductive process	0.220 %	-1.0732	0.62	0.70
<a href="#">GO:0010646</a>	<b>regulation of cell communication</b>	<b>1.139 %</b>	<b>-2.1424</b>	<b>0.71</b>	<b>0.36</b>
<a href="#">GO:2000241</a>	regulation of reproductive process	1.092 %	-1.0129	0.74	0.37
<a href="#">GO:0023051</a>	<b>regulation of signaling</b>	<b>1.126 %</b>	<b>-2.1495</b>	<b>0.74</b>	<b>0.38</b>
<a href="#">GO:0035556</a>	intracellular signal transduction	3.112 %	-1.2277	0.62	0.55
<a href="#">GO:0010686</a>	<b>tetracyclic triterpenoid biosynthetic process</b>	<b>0.004 %</b>	<b>-1.8247</b>	<b>0.80</b>	<b>0.38</b>
<a href="#">GO:0010685</a>	tetracyclic triterpenoid metabolic process	0.004 %	-1.8247	0.80	0.79
<a href="#">GO:0010683</a>	tricyclic triterpenoid metabolic process	0.013 %	-1.7506	0.79	0.84
<a href="#">GO:0019742</a>	pentacyclic triterpenoid metabolic process	0.004 %	-1.6502	0.80	0.84
<a href="#">GO:0019745</a>	pentacyclic triterpenoid biosynthetic process	0.004 %	-1.8247	0.80	0.81
<a href="#">GO:0016104</a>	triterpenoid biosynthetic process	0.030 %	-1.5917	0.78	0.93
<a href="#">GO:0080003</a>	thalianol metabolic process	0.009 %	-1.8671	0.79	0.87
<a href="#">GO:0006722</a>	triterpenoid metabolic process	0.035 %	-1.4423	0.80	0.55
<a href="#">GO:0010263</a>	tricyclic triterpenoid biosynthetic process	0.009 %	-1.8384	0.79	0.96
<a href="#">GO:0080167</a>	<b>response to karrikin</b>	<b>0.531 %</b>	<b>-1.2071</b>	<b>0.91</b>	<b>0.39</b>
<a href="#">GO:0006468</a>	protein phosphorylation	5.334 %	-1.0032	0.81	0.40
<a href="#">GO:0046903</a>	secretion	0.501 %	-1.0172	0.81	0.40
<a href="#">GO:0009739</a>	<b>response to gibberellin</b>	<b>0.626 %</b>	<b>-2.4615</b>	<b>0.86</b>	<b>0.41</b>
<a href="#">GO:0009755</a>	hormone-mediated signalling pathway	3.617 %	-1.1410	0.58	0.67
<a href="#">GO:0009725</a>	response to hormone	6.871 %	-1.5253	0.84	0.81
<a href="#">GO:0009723</a>	response to ethylene	1.269 %	-1.1931	0.86	0.53
<a href="#">GO:0033993</a>	response to lipid	3.267 %	-1.1887	0.85	0.58
<a href="#">GO:0051051</a>	<b>negative regulation of transport</b>	<b>0.026 %</b>	<b>-1.5202</b>	<b>0.61</b>	<b>0.41</b>
<a href="#">GO:0032409</a>	regulation of transporter activity	0.060 %	-1.1331	0.63	0.65
<a href="#">GO:0015692</a>	lead ion transport	0.004 %	-1.4209	0.89	0.43
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-1.1431	0.87	0.45
<a href="#">GO:0046352</a>	<b>disaccharide catabolic process</b>	<b>0.035 %</b>	<b>-1.6592</b>	<b>0.81</b>	<b>0.45</b>
<a href="#">GO:0044275</a>	cellular carbohydrate catabolic process	0.298 %	-1.0432	0.88	0.64
<a href="#">GO:0009313</a>	oligosaccharide catabolic process	0.039 %	-1.3583	0.84	0.69
<a href="#">GO:0005987</a>	sucrose catabolic process	0.022 %	-1.7986	0.81	0.96
<a href="#">GO:0005985</a>	sucrose metabolic process	0.164 %	-1.1681	0.81	0.81
<a href="#">GO:0043161</a>	<b>proteasome-mediated ubiquitin-dependent protein catabolic process</b>	<b>2.231 %</b>	<b>-1.1709</b>	<b>0.81</b>	<b>0.47</b>
<a href="#">GO:0044248</a>	cellular catabolic process	5.939 %	-1.1744	0.87	0.70
<a href="#">GO:0010498</a>	proteasomal protein catabolic process	2.240 %	-1.1462	0.81	0.86
<a href="#">GO:0080168</a>	<b>abscisic acid transport</b>	<b>0.017 %</b>	<b>-1.3813</b>	<b>0.80</b>	<b>0.47</b>
<a href="#">GO:0098656</a>	anion transmembrane transport	0.902 %	-1.0891	0.82	0.73
<a href="#">GO:0015718</a>	monocarboxylic acid transport	0.142 %	-1.2255	0.78	0.65
<a href="#">GO:0010332</a>	response to gamma radiation	0.043 %	-1.5996	0.92	0.48
<a href="#">GO:0031570</a>	<b>DNA integrity checkpoint</b>	<b>0.060 %</b>	<b>-1.9488</b>	<b>0.57</b>	<b>0.48</b>
<a href="#">GO:0051445</a>	regulation of meiotic cell cycle	0.060 %	-1.4647	0.65	0.64
<a href="#">GO:0000075</a>	cell cycle checkpoint	0.117 %	-1.6779	0.56	0.87
<a href="#">GO:0000077</a>	DNA damage checkpoint	0.043 %	-1.9864	0.55	0.89
<a href="#">GO:0022402</a>	cell cycle process	1.713 %	-1.2614	0.77	0.62
<a href="#">GO:0010564</a>	regulation of cell cycle process	0.384 %	-1.1435	0.64	0.74
<a href="#">GO:0031122</a>	<b>cytoplasmic microtubule organization</b>	<b>0.216 %</b>	<b>-1.1154</b>	<b>0.81</b>	<b>0.48</b>
<a href="#">GO:0043622</a>	cortical microtubule organization	0.112 %	-1.1254	0.82	0.81
<a href="#">GO:0030865</a>	cortical cytoskeleton organization	0.129 %	-1.1032	0.88	0.71
<a href="#">GO:0006996</a>	organelle organization	6.439 %	-1.4099	0.87	0.48
<a href="#">GO:1905156</a>	negative regulation of photosynthesis	0.073 %	-1.2354	0.62	0.49

<a href="#">GO:0042548</a>	<i>regulation of photosynthesis, light reaction</i>	0.108 %	-1.1973	0.73	0.92
<a href="#">GO:0010205</a>	<i>photoinhibition</i>	0.060 %	-1.2773	0.55	0.95
<a href="#">GO:0010109</a>	<i>regulation of photosynthesis</i>	0.160 %	-1.0310	0.73	0.66
<a href="#">GO:0043155</a>	<i>negative regulation of photosynthesis, light reaction</i>	0.060 %	-1.2773	0.62	0.97
<a href="#">GO:0046434</a>	<b>organophosphate catabolic process</b>	<b>0.112 %</b>	<b>-1.2923</b>	<b>0.87</b>	<b>0.49</b>
<a href="#">GO:0043069</a>	<b>negative regulation of programmed cell death</b>	<b>0.082 %</b>	<b>-1.2034</b>	<b>0.61</b>	<b>0.49</b>
<a href="#">GO:0060548</a>	<i>negative regulation of cell death</i>	0.112 %	-1.0845	0.60	0.83
<a href="#">GO:0009247</a>	<b>glycolipid biosynthetic process</b>	<b>0.250 %</b>	<b>-1.4534</b>	<b>0.79</b>	<b>0.49</b>
<a href="#">GO:0046467</a>	<i>membrane lipid biosynthetic process</i>	0.371 %	-1.2885	0.78	0.91
<a href="#">GO:0006664</a>	<i>glycolipid metabolic process</i>	0.306 %	-1.2159	0.78	0.98
<a href="#">GO:1903509</a>	<i>liposaccharide metabolic process</i>	0.315 %	-1.1681	0.84	0.56

## Biological Process (147) Tag Clouds

Scatterplot & Table    Interactive Graph    TreeMap

## GROUP 22

[Hide/show dispensable GO terms](#)      [Export results to text table \(CSV\)](#)      [Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009624</a>	response to nematode	0.306 %		-2.5487	0.95	0.00
<a href="#">GO:0032535</a>	regulation of cellular component size	0.319 %		-3.1692	0.63	0.00
<a href="#">GO:0051494</a>	<i>negative regulation of cytoskeleton organization</i>	0.082 %		-1.4853	0.56	0.91
<a href="#">GO:0032272</a>	<i>negative regulation of protein polymerization</i>	0.078 %		-1.5534	0.56	0.99
<a href="#">GO:0030832</a>	<i>regulation of actin filament length</i>	0.181 %		-1.2267	0.52	0.98
<a href="#">GO:0030835</a>	<i>negative regulation of actin filament depolymerization</i>	0.047 %		-1.5534	0.48	0.99
<a href="#">GO:0030833</a>	<i>regulation of actin filament polymerization</i>	0.164 %		-1.2510	0.50	0.94
<a href="#">GO:0030834</a>	<i>regulation of actin filament depolymerization</i>	0.065 %		-1.4981	0.50	0.92
<a href="#">GO:0043244</a>	<i>regulation of protein complex disassembly</i>	0.099 %		-1.3254	0.56	0.88
<a href="#">GO:0043241</a>	<i>protein complex disassembly</i>	0.246 %		-1.2404	0.66	0.98
<a href="#">GO:0043242</a>	<i>negative regulation of protein complex disassembly</i>	0.052 %		-1.4853	0.53	0.93
<a href="#">GO:0051261</a>	<i>protein depolymerization</i>	0.147 %		-1.3086	0.67	0.95
<a href="#">GO:0051016</a>	<i>barbed-end actin filament capping</i>	0.017 %		-1.8823	0.50	0.79
<a href="#">GO:0007015</a>	<i>actin filament organization</i>	0.315 %		-1.0160	0.67	0.95
<a href="#">GO:0043624</a>	<i>cellular protein complex disassembly</i>	0.237 %		-1.2475	0.66	0.94
<a href="#">GO:0008154</a>	<i>actin polymerization or depolymerization</i>	0.237 %		-1.1337	0.67	0.90
<a href="#">GO:0008064</a>	<i>regulation of actin polymerization or depolymerization</i>	0.181 %		-1.2267	0.52	0.99
<a href="#">GO:0051693</a>	<i>actin filament capping</i>	0.047 %		-1.5534	0.47	0.96

<a href="#">GO:0032956</a>	regulation of actin cytoskeleton organization	0.194 %	-1.2267	0.54	0.99
<a href="#">GO:1901880</a>	negative regulation of protein depolymerization	0.052 %	-1.4853	0.53	0.99
<a href="#">GO:1901879</a>	regulation of protein depolymerization	0.078 %	-1.4003	0.56	0.95
<a href="#">GO:0030042</a>	actin filament depolymerization	0.117 %	-1.3852	0.61	0.85
<a href="#">GO:0030837</a>	negative regulation of actin filament polymerization	0.069 %	-1.5534	0.48	0.90
<a href="#">GO:0008361</a>	regulation of cell size	0.099 %	-2.3000	0.66	0.90
<a href="#">GO:0032984</a>	macromolecular complex disassembly	0.268 %	-1.2370	0.68	0.96
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-1.4016</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0006261</a>	<b>DNA-dependent DNA replication</b>	<b>0.419 %</b>	<b>-2.4082</b>	<b>0.72</b>	<b>0.04</b>
<a href="#">GO:0042023</a>	DNA endoreduplication	0.160 %	-2.5865	0.64	0.84
<a href="#">GO:0006275</a>	regulation of DNA replication	0.125 %	-1.4791	0.62	0.82
<a href="#">GO:0090329</a>	regulation of DNA-dependent DNA replication	0.095 %	-1.5389	0.62	0.95
<a href="#">GO:2000104</a>	negative regulation of DNA-dependent DNA replication	0.039 %	-1.8368	0.59	0.98
<a href="#">GO:0044786</a>	cell cycle DNA replication	0.181 %	-2.5810	0.64	0.86
<a href="#">GO:0051053</a>	negative regulation of DNA metabolic process	0.086 %	-1.5684	0.59	0.57
<a href="#">GO:0032876</a>	negative regulation of DNA endoreduplication	0.030 %	-1.8823	0.55	0.87
<a href="#">GO:0032875</a>	regulation of DNA endoreduplication	0.086 %	-1.6346	0.57	0.93
<a href="#">GO:0051052</a>	regulation of DNA metabolic process	0.380 %	-1.1912	0.62	0.64
<a href="#">GO:0008156</a>	negative regulation of DNA replication	0.039 %	-1.8368	0.59	0.88
<a href="#">GO:0006260</a>	DNA replication	0.665 %	-2.0168	0.73	0.68
<a href="#">GO:0090467</a>	<b>arginine import</b>	<b>0.004 %</b>	<b>-2.0575</b>	<b>0.84</b>	<b>0.06</b>
<a href="#">GO:0042886</a>	amide transport	0.220 %	-1.1418	0.90	0.51
<a href="#">GO:0006865</a>	amino acid transport	0.419 %	-1.1672	0.82	0.76
<a href="#">GO:0006857</a>	oligopeptide transport	0.155 %	-1.1473	0.90	0.66
<a href="#">GO:0015833</a>	peptide transport	0.177 %	-1.1473	0.89	0.95
<a href="#">GO:1902023</a>	L-arginine transport	0.004 %	-2.0575	0.84	0.86
<a href="#">GO:0043090</a>	amino acid import	0.056 %	-1.3901	0.83	0.62
<a href="#">GO:0043092</a>	L-amino acid import	0.017 %	-2.0575	0.83	0.80
<a href="#">GO:0043091</a>	L-arginine import	0.004 %	-2.0575	0.84	0.91
<a href="#">GO:0051938</a>	L-glutamate import	0.013 %	-2.1363	0.83	0.85
<a href="#">GO:0008283</a>	<b>cell proliferation</b>	<b>0.470 %</b>	<b>-1.6794</b>	<b>0.91</b>	<b>0.09</b>
<a href="#">GO:0061062</a>	<b>regulation of nematode larval development</b>	<b>0.009 %</b>	<b>-2.0341</b>	<b>0.73</b>	<b>0.12</b>
<a href="#">GO:2000026</a>	regulation of multicellular organismal development	1.765 %	-1.2800	0.63	0.92
<a href="#">GO:2000024</a>	regulation of leaf development	0.224 %	-1.3611	0.67	0.76
<a href="#">GO:2000038</a>	regulation of stomatal complex development	0.039 %	-1.4917	0.71	0.65
<a href="#">GO:0048580</a>	regulation of post-embryonic development	1.303 %	-1.5150	0.63	0.58
<a href="#">GO:0010374</a>	stomatal complex development	0.220 %	-1.0323	0.83	0.65
<a href="#">GO:0002119</a>	nematode larval development	0.009 %	-2.0341	0.86	1.00
<a href="#">GO:0009934</a>	regulation of meristem structural organization	0.065 %	-1.2510	0.71	0.61
<a href="#">GO:1900056</a>	negative regulation of leaf senescence	0.043 %	-1.6002	0.64	0.83
<a href="#">GO:1900055</a>	regulation of leaf senescence	0.104 %	-1.5113	0.69	0.71
<a href="#">GO:0010212</a>	<b>response to ionizing radiation</b>	<b>0.129 %</b>	<b>-1.5248</b>	<b>0.95</b>	<b>0.16</b>
<a href="#">GO:0010467</a>	<b>gene expression</b>	<b>18.304 %</b>	<b>-1.4710</b>	<b>0.87</b>	<b>0.17</b>
<a href="#">GO:0010948</a>	<b>negative regulation of cell cycle process</b>	<b>0.117 %</b>	<b>-1.6346</b>	<b>0.63</b>	<b>0.18</b>
<a href="#">GO:0022402</a>	cell cycle process	1.713 %	-1.2331	0.78	0.66
<a href="#">GO:0045786</a>	negative regulation of cell cycle	0.211 %	-1.4435	0.61	0.74
<a href="#">GO:0010564</a>	regulation of cell cycle process	0.384 %	-1.1283	0.67	0.81
<a href="#">GO:0032970</a>	regulation of actin filament-based process	0.194 %	-1.2267	0.63	0.19
<a href="#">GO:0018958</a>	phenol-containing compound metabolic process	0.190 %	-1.4853	0.84	0.19
<a href="#">GO:0009735</a>	<b>response to cytokinin</b>	<b>1.010 %</b>	<b>-1.6706</b>	<b>0.93</b>	<b>0.19</b>
<a href="#">GO:0009753</a>	response to jasmonic acid	0.919 %	-1.1399	0.92	0.58
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-1.3993	0.92	0.52
<a href="#">GO:0009699</a>	<b>phenylpropanoid biosynthetic process</b>	<b>0.337 %</b>	<b>-1.5877</b>	<b>0.70</b>	<b>0.20</b>
<a href="#">GO:0046189</a>	phenol-containing compound biosynthetic process	0.104 %	-1.4853	0.81	0.84
<a href="#">GO:0044550</a>	secondary metabolite biosynthetic process	1.183 %	-1.2673	0.76	0.80
<a href="#">GO:0009698</a>	phenylpropanoid metabolic process	0.505 %	-1.3897	0.73	0.70
<a href="#">GO:0010023</a>	proanthocyanidin biosynthetic process	0.035 %	-1.6919	0.73	0.77
<a href="#">GO:0065008</a>	<b>regulation of biological quality</b>	<b>5.991 %</b>	<b>-1.2867</b>	<b>0.75</b>	<b>0.21</b>
<a href="#">GO:0010375</a>	<b>stomatal complex patterning</b>	<b>0.047 %</b>	<b>-1.4917</b>	<b>0.86</b>	<b>0.24</b>
<a href="#">GO:2000037</a>	regulation of stomatal complex patterning	0.022 %	-1.6085	0.73	0.63
<a href="#">GO:0051090</a>	<b>regulation of sequence-specific DNA binding transcription factor activity</b>	<b>0.052 %</b>	<b>-1.4268</b>	<b>0.69</b>	<b>0.25</b>
<a href="#">GO:0044092</a>	negative regulation of molecular function	1.070 %	-1.0905	0.78	0.60
<a href="#">GO:0071705</a>	nitrogen compound transport	1.515 %	-1.5877	0.93	0.27
<a href="#">GO:0002164</a>	larval development	0.009 %	-2.0341	0.87	0.29
<a href="#">GO:0007033</a>	vacuole organization	0.186 %	-1.1077	0.81	0.29
<a href="#">GO:0048317</a>	seed morphogenesis	0.026 %	-1.7829	0.85	0.30
<a href="#">GO:0050793</a>	regulation of developmental process	2.577 %	-1.4514	0.68	0.32
<a href="#">GO:0051239</a>	regulation of multicellular organismal process	1.972 %	-1.1398	0.69	0.33
<a href="#">GO:0045893</a>	<b>positive regulation of transcription, DNA-templated</b>	<b>1.864 %</b>	<b>-1.2907</b>	<b>0.53</b>	<b>0.35</b>
<a href="#">GO:0032774</a>	RNA biosynthetic process	11.813 %	-2.3856	0.67	0.83
<a href="#">GO:0010468</a>	regulation of gene expression	12.706 %	-1.1176	0.58	0.80
<a href="#">GO:1902680</a>	positive regulation of RNA biosynthetic process	1.869 %	-1.2907	0.53	0.97

<a href="#">GO:0031328</a>	positive regulation of cellular biosynthetic process	2.102 %	-1.1730	0.56	0.97
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %	-1.0842	0.52	0.87
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %	-1.0650	0.59	0.95
<a href="#">GO:0051252</a>	regulation of RNA metabolic process	11.463 %	-1.4557	0.51	0.67
<a href="#">GO:2001141</a>	regulation of RNA biosynthetic process	11.282 %	-1.5007	0.49	0.88
<a href="#">GO:0019219</a>	regulation of nucleobase-containing compound metabolic process	11.700 %	-1.3937	0.52	0.85
<a href="#">GO:0051254</a>	positive regulation of RNA metabolic process	1.912 %	-1.2907	0.55	0.96
<a href="#">GO:0016070</a>	RNA metabolic process	17.562 %	-2.1464	0.71	0.67
<a href="#">GO:2000112</a>	regulation of cellular macromolecule biosynthetic process	12.003 %	-1.2560	0.51	0.79
<a href="#">GO:0045935</a>	positive regulation of nucleobase-containing compound metabolic process	2.007 %	-1.2564	0.55	0.96
<a href="#">GO:0010628</a>	positive regulation of gene expression	2.050 %	-1.2293	0.60	0.90
<a href="#">GO:0006355</a>	regulation of transcription, DNA-templated	11.234 %	-1.5007	0.49	0.87
<a href="#">GO:0006351</a>	transcription, DNA-templated	11.709 %	-2.3856	0.65	0.62
<a href="#">GO:1903508</a>	positive regulation of nucleic acid-templated transcription	1.869 %	-1.2907	0.53	0.98
<a href="#">GO:1903506</a>	regulation of nucleic acid-templated transcription	11.282 %	-1.5007	0.49	0.89
<a href="#">GO:0097659</a>	nucleic acid-templated transcription	11.761 %	-2.3856	0.66	0.88
<a href="#">GO:0010604</a>	positive regulation of macromolecule metabolic process	2.672 %	-1.0859	0.60	0.92
<a href="#">GO:0009891</a>	positive regulation of biosynthetic process	2.145 %	-1.1618	0.58	0.89
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-1.0498	0.56	0.78
<a href="#">GO:0010556</a>	regulation of macromolecule biosynthetic process	12.076 %	-1.2508	0.53	0.86
<a href="#">GO:0010557</a>	positive regulation of macromolecule biosynthetic process	2.007 %	-1.2125	0.56	0.95
<a href="#">GO:0051173</a>	positive regulation of nitrogen compound metabolic process	2.119 %	-1.1827	0.59	0.88
<a href="#">GO:0034654</a>	nucleobase-containing compound biosynthetic process	13.056 %	-2.0353	0.68	0.81
<a href="#">GO:0051171</a>	regulation of nitrogen compound metabolic process	12.430 %	-1.1511	0.58	0.76
<a href="#">GO:0051128</a>	regulation of cellular component organization	1.467 %	-1.2534	0.66	0.35
<a href="#">GO:0022411</a>	cellular component disassembly	0.324 %	-1.2200	0.78	0.35
<a href="#">GO:0010541</a>	acropetal auxin transport	0.013 %	-1.4917	0.75	0.36
<a href="#">GO:0010540</a>	basipetal auxin transport	0.078 %	-1.0180	0.72	0.70
<a href="#">GO:0019438</a>	aromatic compound biosynthetic process	14.247 %	-2.7711	0.73	0.38
<a href="#">GO:0018130</a>	heterocycle biosynthetic process	14.014 %	-2.3046	0.73	0.58
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-2.5991	0.75	0.55
<a href="#">GO:0009718</a>	anthocyanin-containing compound biosynthetic process	0.121 %	-1.1257	0.80	0.38
<a href="#">GO:0010229</a>	inflorescence development	0.104 %	-1.0042	0.84	0.39
<a href="#">GO:0015849</a>	organic acid transport	0.682 %	-1.1672	0.84	0.41
<a href="#">GO:0042631</a>	cellular response to water deprivation	0.129 %	-1.1418	0.88	0.41
<a href="#">GO:0010182</a>	sugar mediated signaling pathway	0.147 %	-1.1337	0.69	0.53
<a href="#">GO:0009756</a>	carbohydrate mediated signaling	0.147 %	-1.1337	0.69	0.94
<a href="#">GO:0071462</a>	cellular response to water stimulus	0.129 %	-1.1418	0.88	0.70
<a href="#">GO:0043433</a>	negative regulation of sequence-specific DNA binding transcription factor activity	0.022 %	-1.5684	0.65	0.45
<a href="#">GO:0090066</a>	regulation of anatomical structure size	0.319 %	-3.1692	0.77	0.46
<a href="#">GO:0010332</a>	response to gamma radiation	0.043 %	-1.5840	0.95	0.48
<a href="#">GO:0001101</a>	response to acid chemical	5.011 %	-1.0874	0.93	0.48
<a href="#">GO:0009736</a>	cytokinin-activated signaling pathway	0.328 %	-1.2475	0.68	0.48
<a href="#">GO:0071368</a>	cellular response to cytokinin stimulus	0.337 %	-1.1672	0.88	0.80
<a href="#">GO:0030308</a>	negative regulation of cell growth	0.043 %	-1.5840	0.61	0.48
<a href="#">GO:0051493</a>	regulation of cytoskeleton organization	0.289 %	-1.1501	0.58	0.69
<a href="#">GO:0032271</a>	regulation of protein polymerization	0.186 %	-1.2510	0.59	0.87
<a href="#">GO:0031333</a>	negative regulation of protein complex assembly	0.078 %	-1.5534	0.57	0.56
<a href="#">GO:0045926</a>	negative regulation of growth	0.121 %	-1.2510	0.73	0.61
<a href="#">GO:0010639</a>	negative regulation of organelle organization	0.138 %	-1.3852	0.56	0.89
<a href="#">GO:0051129</a>	negative regulation of cellular component organization	0.211 %	-1.1974	0.59	0.62
<a href="#">GO:0030041</a>	actin filament polymerization	0.168 %	-1.2335	0.63	0.93
<a href="#">GO:0043254</a>	regulation of protein complex assembly	0.298 %	-1.2510	0.58	0.81
<a href="#">GO:0009888</a>	tissue development	2.326 %	-1.4227	0.89	0.49
<a href="#">GO:0048364</a>	root development	1.886 %	-1.0359	0.81	0.49
<a href="#">GO:0022622</a>	root system development	1.895 %	-1.0300	0.81	0.61
<a href="#">GO:0009960</a>	endosperm development	0.134 %	-1.2924	0.83	0.50

Biological Process (224) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 23

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000003</a>	reproduction	6.655 %		-3.2441	1.00	0.00
<a href="#">GO:0032260</a>	response to jasmonic acid stimulus involved in jasmonic acid and ethylene-dependent systemic resistance	0.009 %		-2.4962	0.94	0.00
<a href="#">GO:0009861</a>	<i>jasmonic acid and ethylene-dependent systemic resistance</i>	0.052 %		-1.2223	0.95	0.58
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %		-1.7416	0.99	0.00
<a href="#">GO:0032502</a>	developmental process	12.689 %		-1.7122	0.99	0.00
<a href="#">GO:0036290</a>	protein trans-autophosphorylation	0.004 %		-4.6321	0.93	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-3.0239	0.99	0.00
<a href="#">GO:0048608</a>	reproductive structure development	4.674 %		-3.8282	0.72	0.00
<a href="#">GO:0044707</a>	<i>single-multicellular organism process</i>	10.699 %		-2.0985	0.76	0.86
<a href="#">GO:0044702</a>	<i>single organism reproductive process</i>	5.939 %		-3.2672	0.80	0.89
<a href="#">GO:0003006</a>	<i>developmental process involved in reproduction</i>	5.611 %		-3.9683	0.83	0.85
<a href="#">GO:0010214</a>	<i>seed coat development</i>	0.168 %		-1.5859	0.79	0.62
<a href="#">GO:0080060</a>	<i>integument development</i>	0.039 %		-3.0940	0.80	0.53
<a href="#">GO:0044767</a>	<i>single-organism developmental process</i>	12.123 %		-1.9325	0.75	0.82
<a href="#">GO:0010154</a>	<i>fruit development</i>	2.443 %		-3.0597	0.74	0.86
<a href="#">GO:0009555</a>	<i>pollen development</i>	1.230 %		-1.9714	0.78	0.54

<a href="#">GO:0080001</a>	<i>mucilage extrusion from seed coat</i>	0.022 %	-1.1942	0.82	0.51
<a href="#">GO:0007275</a>	<i>multicellular organism development</i>	10.423 %	-2.1577	0.73	0.78
<a href="#">GO:0048440</a>	<i>carpel development</i>	0.268 %	-1.1528	0.77	0.94
<a href="#">GO:0048481</a>	<i>plant ovule development</i>	0.190 %	-1.4574	0.77	0.88
<a href="#">GO:0048827</a>	<i>phyllome development</i>	1.921 %	-1.0734	0.76	0.69
<a href="#">GO:0048367</a>	<i>shoot system development</i>	3.599 %	-1.5186	0.75	0.76
<a href="#">GO:0048359</a>	<i>mucilage metabolic process involved in seed coat development</i>	0.086 %	-1.1374	0.78	0.58
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-1.8998	0.85	0.85
<a href="#">GO:0048316</a>	<i>seed development</i>	2.305 %	-3.3413	0.73	0.85
<a href="#">GO:0009790</a>	<i>embryo development</i>	1.683 %	-1.3979	0.78	0.57
<a href="#">GO:0009791</a>	<i>post-embryonic development</i>	5.848 %	-3.1900	0.75	0.69
<a href="#">GO:0009793</a>	<i>embryo development ending in seed dormancy</i>	1.584 %	-1.8353	0.74	0.92
<a href="#">GO:0022414</a>	<i>reproductive process</i>	6.629 %	-3.2887	0.92	0.91
<a href="#">GO:0035670</a>	<i>plant-type ovary development</i>	0.194 %	-1.4320	0.77	0.94
<a href="#">GO:0048229</a>	<i>gametophyte development</i>	1.653 %	-1.4793	0.78	0.57
<a href="#">GO:0061458</a>	<i>reproductive system development</i>	4.674 %	-3.8282	0.74	0.80
<a href="#">GO:0048731</a>	<i>system development</i>	7.225 %	-2.3756	0.74	0.82
<a href="#">GO:0065007</a>	<b>biological regulation</b>	<b>28.554 %</b>	<b>-1.6154</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0009902</a>	<b>chloroplast relocation</b>	<b>0.129 %</b>	<b>-2.4349</b>	<b>0.85</b>	<b>0.03</b>
<a href="#">GO:0019750</a>	<i>chloroplast localization</i>	0.134 %	-2.4349	0.89	1.00
<a href="#">GO:0072594</a>	<i>establishment of protein localization to organelle</i>	0.924 %	-1.0157	0.90	0.81
<a href="#">GO:0009903</a>	<i>chloroplast avoidance movement</i>	0.112 %	-1.3022	0.85	0.99
<a href="#">GO:0009904</a>	<i>chloroplast accumulation movement</i>	0.095 %	-1.4245	0.85	0.98
<a href="#">GO:0051656</a>	<i>establishment of organelle localization</i>	0.276 %	-2.1771	0.89	0.91
<a href="#">GO:0051667</a>	<i>establishment of plastid localization</i>	0.129 %	-2.4349	0.89	0.99
<a href="#">GO:0051644</a>	<i>plastid localization</i>	0.134 %	-2.4349	0.89	0.86
<a href="#">GO:0051640</a>	<i>organelle localization</i>	0.332 %	-1.9708	0.90	0.55
<a href="#">GO:0051649</a>	<i>establishment of localization in cell</i>	2.408 %	-1.2465	0.89	0.72
<a href="#">GO:0019079</a>	<b>viral genome replication</b>	<b>0.026 %</b>	<b>-1.3904</b>	<b>0.96</b>	<b>0.03</b>
<a href="#">GO:0019058</a>	<i>viral life cycle</i>	0.030 %	-1.3796	0.96	0.70
<a href="#">GO:0080088</a>	<b>spermidine hydroxycinnamate conjugate biosynthetic process</b>	<b>0.009 %</b>	<b>-3.8238</b>	<b>0.86</b>	<b>0.04</b>
<a href="#">GO:1901615</a>	<b>organic hydroxy compound metabolic process</b>	<b>1.265 %</b>	<b>-2.4853</b>	<b>0.93</b>	<b>0.05</b>
<a href="#">GO:0006790</a>	<b>sulfur compound metabolic process</b>	<b>1.420 %</b>	<b>-1.1681</b>	<b>0.92</b>	<b>0.06</b>
<a href="#">GO:0009812</a>	<b>flavonoid metabolic process</b>	<b>0.414 %</b>	<b>-1.9525</b>	<b>0.94</b>	<b>0.07</b>
<a href="#">GO:0051782</a>	<b>negative regulation of cell division</b>	<b>0.022 %</b>	<b>-3.0940</b>	<b>0.80</b>	<b>0.09</b>
<a href="#">GO:0051302</a>	<i>regulation of cell division</i>	0.199 %	-1.5962	0.80	0.56
<a href="#">GO:2000603</a>	<b>regulation of secondary growth</b>	<b>0.009 %</b>	<b>-1.2080</b>	<b>0.87</b>	<b>0.12</b>
<a href="#">GO:2000605</a>	<i>positive regulation of secondary growth</i>	0.004 %	-1.2296	0.87	0.87
<a href="#">GO:0080117</a>	<i>secondary growth</i>	0.022 %	-1.0035	0.89	0.95
<a href="#">GO:0055088</a>	<b>lipid homeostasis</b>	<b>0.199 %</b>	<b>-1.3391</b>	<b>0.93</b>	<b>0.12</b>
<a href="#">GO:0030104</a>	<i>water homeostasis</i>	0.052 %	-1.0077	0.93	0.58
<a href="#">GO:0010268</a>	<i>brassinosteroid homeostasis</i>	0.138 %	-1.4488	0.93	0.62
<a href="#">GO:0010114</a>	<b>response to red light</b>	<b>0.259 %</b>	<b>-1.3386</b>	<b>0.92</b>	<b>0.13</b>
<a href="#">GO:0010161</a>	<i>red light signaling pathway</i>	0.035 %	-1.2447	0.80	0.78
<a href="#">GO:0009637</a>	<i>response to blue light</i>	0.341 %	-1.1222	0.92	0.64
<a href="#">GO:0009638</a>	<i>phototropism</i>	0.069 %	-1.0876	0.92	0.53
<a href="#">GO:0009785</a>	<i>blue light signaling pathway</i>	0.078 %	-1.0527	0.79	0.83
<a href="#">GO:0071482</a>	<i>cellular response to light stimulus</i>	0.561 %	-1.2207	0.88	0.63
<a href="#">GO:0071478</a>	<i>cellular response to radiation</i>	0.583 %	-1.2207	0.88	0.91
<a href="#">GO:0071491</a>	<i>cellular response to red light</i>	0.043 %	-1.2151	0.90	0.79
<a href="#">GO:0007263</a>	<b>nitric oxide mediated signal transduction</b>	<b>0.009 %</b>	<b>-1.6982</b>	<b>0.85</b>	<b>0.13</b>
<a href="#">GO:0019748</a>	<b>secondary metabolic process</b>	<b>1.938 %</b>	<b>-2.9183</b>	<b>0.76</b>	<b>0.15</b>
<a href="#">GO:0044272</a>	<b>sulfur compound biosynthetic process</b>	<b>0.699 %</b>	<b>-2.0453</b>	<b>0.85</b>	<b>0.16</b>
<a href="#">GO:0019760</a>	<i>glucosinolate metabolic process</i>	0.514 %	-1.5623	0.58	0.91
<a href="#">GO:0019758</a>	<i>glucosinolate biosynthetic process</i>	0.194 %	-1.9485	0.60	1.00
<a href="#">GO:0019757</a>	<i>glucosinolate metabolic process</i>	0.514 %	-1.5623	0.58	0.99
<a href="#">GO:0019761</a>	<i>glucosinolate biosynthetic process</i>	0.194 %	-1.9485	0.60	0.75
<a href="#">GO:0046499</a>	<i>S-adenosylmethioninamine metabolic process</i>	0.017 %	-1.7214	0.71	0.71
<a href="#">GO:0010439</a>	<i>regulation of glucosinolate biosynthetic process</i>	0.026 %	-1.3589	0.61	0.86
<a href="#">GO:0006557</a>	<i>S-adenosylmethioninamine biosynthetic process</i>	0.017 %	-1.7214	0.69	0.62
<a href="#">GO:0048519</a>	<b>negative regulation of biological process</b>	<b>3.716 %</b>	<b>-1.1268</b>	<b>0.93</b>	<b>0.19</b>
<a href="#">GO:0031221</a>	<b>arabinan metabolic process</b>	<b>0.009 %</b>	<b>-1.3391</b>	<b>0.82</b>	<b>0.21</b>
<a href="#">GO:0045730</a>	<b>respiratory burst</b>	<b>0.013 %</b>	<b>-1.3022</b>	<b>0.83</b>	<b>0.21</b>
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-1.6446</b>	<b>0.83</b>	<b>0.21</b>
<a href="#">GO:0043446</a>	<b>cellular alkane metabolic process</b>	<b>0.017 %</b>	<b>-1.7214</b>	<b>0.81</b>	<b>0.22</b>
<a href="#">GO:0043447</a>	<b>alkane biosynthetic process</b>	<b>0.017 %</b>	<b>-1.7214</b>	<b>0.78</b>	<b>0.22</b>
<a href="#">GO:0009828</a>	<b>plant-type cell wall loosening</b>	<b>0.022 %</b>	<b>-1.7999</b>	<b>0.95</b>	<b>0.23</b>
<a href="#">GO:0080170</a>	<b>hydrogen peroxide transmembrane transport</b>	<b>0.022 %</b>	<b>-1.2603</b>	<b>0.93</b>	<b>0.25</b>
<a href="#">GO:1902123</a>	<b>(-)-pinoresinol catabolic process</b>	<b>0.081 %</b>	<b>-2.6720</b>	<b>0.56</b>	<b>0.25</b>
<a href="#">GO:0044724</a>	<i>single-organism carbohydrate catabolic process</i>	0.432 %	-1.1222	0.73	0.65
<a href="#">GO:0010115</a>	<i>regulation of abscisic acid biosynthetic process</i>	0.030 %	-1.2011	0.57	0.68
<a href="#">GO:0034312</a>	<i>diol biosynthetic process</i>	0.004 %	-1.9337	0.68	0.62



<a href="#">GO:0034311</a>	<i>diol metabolic process</i>	0.004 %	-1.9337	0.71	0.54
<a href="#">GO:0034310</a>	<i>primary alcohol catabolic process</i>	0.128 %	-2.1958	0.61	0.97
<a href="#">GO:0034309</a>	<i>primary alcohol biosynthetic process</i>	0.009 %	-2.1958	0.68	0.52
<a href="#">GO:0034308</a>	<i>primary alcohol metabolic process</i>	0.052 %	-1.1744	0.68	0.62
<a href="#">GO:1902124</a>	<i>(+)-pinosresinol metabolic process</i>	1.218 %	-2.1958	0.50	1.92
<a href="#">GO:1902127</a>	<i>(-)-lariciresinol metabolic process</i>	1.258 %	-2.3714	0.49	1.47
<a href="#">GO:1902128</a>	<i>(-)-lariciresinol catabolic process</i>	0.087 %	-2.4962	0.56	1.48
<a href="#">GO:1902125</a>	<i>(+)-pinosresinol catabolic process</i>	0.087 %	-2.1958	0.56	1.48
<a href="#">GO:0016131</a>	<i>brassinosteroid metabolic process</i>	0.177 %	-2.5780	0.64	0.64
<a href="#">GO:1902131</a>	<i>(+)-lariciresinol catabolic process</i>	0.087 %	-2.1958	0.52	1.48
<a href="#">GO:1902132</a>	<i>(+)-lariciresinol biosynthetic process</i>	0.510 %	-2.1958	0.46	1.75
<a href="#">GO:1902129</a>	<i>(-)-lariciresinol biosynthetic process</i>	0.542 %	-2.3714	0.50	1.76
<a href="#">GO:0016128</a>	<i>phytosteroid metabolic process</i>	0.194 %	-2.5780	0.67	0.86
<a href="#">GO:1902130</a>	<i>(+)-lariciresinol metabolic process</i>	1.007 %	-2.1958	0.46	1.88
<a href="#">GO:1901616</a>	<i>organic hydroxy compound catabolic process</i>	0.121 %	-1.0207	0.77	0.66
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	1.183 %	-2.0371	0.64	0.67
<a href="#">GO:1901598</a>	<i>(-)-pinosresinol metabolic process</i>	0.009 %	-1.8961	0.63	1.02
<a href="#">GO:0019336</a>	<i>phenol-containing compound catabolic process</i>	0.030 %	-2.1958	0.73	0.88
<a href="#">GO:0009698</a>	<i>phenylpropanoid metabolic process</i>	0.505 %	-1.4805	0.67	0.80
<a href="#">GO:1902138</a>	<i>(-)-secoisolariciresinol biosynthetic process</i>	0.083 %	-2.1958	0.53	1.47
<a href="#">GO:1902133</a>	<i>(+)-secoisolariciresinol metabolic process</i>	0.029 %	-2.4962	0.57	1.11
<a href="#">GO:1902136</a>	<i>(-)-secoisolariciresinol metabolic process</i>	0.124 %	-2.1958	0.53	1.52
<a href="#">GO:1902135</a>	<i>(+)-secoisolariciresinol biosynthetic process</i>	0.018 %	-2.4962	0.57	1.20
<a href="#">GO:0006066</a>	<i>alcohol metabolic process</i>	0.505 %	-1.4867	0.64	0.74
<a href="#">GO:0043455</a>	<i>regulation of secondary metabolic process</i>	0.173 %	-1.5893	0.68	0.72
<a href="#">GO:0018958</a>	<i>phenol-containing compound metabolic process</i>	0.190 %	-1.1555	0.77	0.75
<a href="#">GO:1901503</a>	<i>ether biosynthetic process</i>	1.458 %	-2.1958	0.65	1.37
<a href="#">GO:1901502</a>	<i>ether catabolic process</i>	0.474 %	-2.1958	0.67	0.57
<a href="#">GO:0046189</a>	<i>phenol-containing compound biosynthetic process</i>	0.104 %	-1.1555	0.72	0.89
<a href="#">GO:0046165</a>	<i>alcohol biosynthetic process</i>	0.250 %	-1.1680	0.62	0.78
<a href="#">GO:0046173</a>	<i>polyol biosynthetic process</i>	0.082 %	-1.2684	0.64	0.80
<a href="#">GO:0009806</a>	<i>lignan metabolic process</i>	0.022 %	-1.7721	0.71	0.68
<a href="#">GO:0009805</a>	<i>coumarin biosynthetic process</i>	0.013 %	-1.6352	0.69	0.65
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	0.285 %	-1.2006	0.66	0.81
<a href="#">GO:0009807</a>	<i>lignan biosynthetic process</i>	0.022 %	-1.7721	0.64	1.09
<a href="#">GO:0046164</a>	<i>alcohol catabolic process</i>	0.082 %	-1.0928	0.63	0.97
<a href="#">GO:0009804</a>	<i>coumarin metabolic process</i>	0.017 %	-1.3691	0.71	0.67
<a href="#">GO:0046273</a>	<i>lignan catabolic process</i>	0.468 %	-2.1958	0.55	1.73
<a href="#">GO:0042445</a>	<i>hormone metabolic process</i>	0.695 %	-2.2241	0.89	0.79
<a href="#">GO:0006979</a>	<b>response to oxidative stress</b>	<b>1.908 %</b>	<b>-1.9021</b>	<b>0.94</b>	<b>0.25</b>
<a href="#">GO:0010155</a>	<b>regulation of proton transport</b>	<b>0.030 %</b>	<b>-1.7999</b>	<b>0.79</b>	<b>0.26</b>
<a href="#">GO:0032410</a>	<i>negative regulation of transporter activity</i>	0.017 %	-1.4128	0.83	0.95
<a href="#">GO:0032413</a>	<i>negative regulation of ion transmembrane transporter activity</i>	0.017 %	-1.4128	0.83	1.00
<a href="#">GO:1903792</a>	<i>negative regulation of anion transport</i>	0.017 %	-1.4128	0.83	0.92
<a href="#">GO:0034763</a>	<i>negative regulation of transmembrane transport</i>	0.017 %	-1.4128	0.83	0.95
<a href="#">GO:0010360</a>	<i>negative regulation of anion channel activity</i>	0.017 %	-1.4128	0.83	0.96
<a href="#">GO:0010362</a>	<i>negative regulation of anion channel activity by blue light</i>	0.009 %	-1.7721	0.84	0.66
<a href="#">GO:0010361</a>	<i>regulation of anion channel activity by blue light</i>	0.009 %	-1.7721	0.86	0.82
<a href="#">GO:0034766</a>	<i>negative regulation of ion transmembrane transport</i>	0.017 %	-1.4128	0.83	1.00
<a href="#">GO:1903960</a>	<i>negative regulation of anion transmembrane transport</i>	0.017 %	-1.4128	0.83	1.00
<a href="#">GO:0051051</a>	<i>negative regulation of transport</i>	0.026 %	-1.1744	0.86	0.62
<a href="#">GO:0043271</a>	<i>negative regulation of ion transport</i>	0.026 %	-1.1744	0.83	0.98
<a href="#">GO:0018904</a>	<b>ether metabolic process</b>	<b>0.142 %</b>	<b>-1.1145</b>	<b>0.75</b>	<b>0.26</b>
<a href="#">GO:0030522</a>	<b>intracellular receptor signaling pathway</b>	<b>0.078 %</b>	<b>-1.0527</b>	<b>0.82</b>	<b>0.27</b>
<a href="#">GO:0008202</a>	<b>steroid metabolic process</b>	<b>0.427 %</b>	<b>-1.5791</b>	<b>0.76</b>	<b>0.29</b>
<a href="#">GO:0009308</a>	<b>amine metabolic process</b>	<b>0.522 %</b>	<b>-3.2748</b>	<b>0.86</b>	<b>0.31</b>
<a href="#">GO:0007569</a>	<b>cell aging</b>	<b>0.022 %</b>	<b>-1.3296</b>	<b>0.80</b>	<b>0.32</b>
<a href="#">GO:0042221</a>	<b>response to chemical</b>	<b>12.434 %</b>	<b>-1.0593</b>	<b>0.94</b>	<b>0.33</b>
<a href="#">GO:0006949</a>	<b>syncytium formation</b>	<b>0.043 %</b>	<b>-1.2080</b>	<b>0.80</b>	<b>0.35</b>
<a href="#">GO:0006560</a>	<b>proline metabolic process</b>	<b>0.065 %</b>	<b>-2.4450</b>	<b>0.70</b>	<b>0.36</b>
<a href="#">GO:0043650</a>	<i>dicarboxylic acid biosynthetic process</i>	0.129 %	-1.1315	0.70	0.73
<a href="#">GO:0009065</a>	<i>glutamine family amino acid catabolic process</i>	0.043 %	-1.2011	0.67	0.74
<a href="#">GO:0009064</a>	<i>glutamine family amino acid metabolic process</i>	0.367 %	-1.3509	0.67	0.66
<a href="#">GO:0009084</a>	<i>glutamine family amino acid biosynthetic process</i>	0.147 %	-1.8748	0.66	0.81
<a href="#">GO:1901607</a>	<i>alpha-amino acid biosynthetic process</i>	0.833 %	-1.0217	0.63	0.82
<a href="#">GO:0006537</a>	<i>glutamate biosynthetic process</i>	0.017 %	-1.4128	0.70	0.70
<a href="#">GO:0006561</a>	<i>proline biosynthetic process</i>	0.043 %	-1.1035	0.68	0.88
<a href="#">GO:0006562</a>	<i>proline catabolic process</i>	0.013 %	-2.2748	0.69	0.69
<a href="#">GO:0046777</a>	<b>protein autophosphorylation</b>	<b>0.604 %</b>	<b>-1.1407</b>	<b>0.91</b>	<b>0.37</b>

<a href="#">GO:0016310</a>	phosphorylation	6.966 %	-1.1234	0.90	0.54
<a href="#">GO:0051017</a>	actin filament bundle assembly	0.086 %	-1.2603	0.83	0.37
<a href="#">GO:0061572</a>	actin filament bundle organization	0.086 %	-1.2603	0.83	0.81
<a href="#">GO:2000122</a>	negative regulation of stomatal complex development	0.022 %	-2.1291	0.76	0.38
<a href="#">GO:0051241</a>	negative regulation of multicellular organismal process	0.445 %	-1.0683	0.75	0.56
<a href="#">GO:0048581</a>	negative regulation of post-embryonic development	0.354 %	-1.2289	0.72	0.77
<a href="#">GO:0010103</a>	stomatal complex morphogenesis	0.125 %	-1.0673	0.79	0.89
<a href="#">GO:0010052</a>	guard cell differentiation	0.082 %	-1.4883	0.75	0.79
<a href="#">GO:2000038</a>	regulation of stomatal complex development	0.039 %	-1.1617	0.78	0.82
<a href="#">GO:0090344</a>	negative regulation of cell aging	0.004 %	-2.0204	0.76	0.57
<a href="#">GO:0090342</a>	regulation of cell aging	0.017 %	-1.3391	0.77	0.90
<a href="#">GO:0010686</a>	tetracyclic triterpenoid biosynthetic process	0.004 %	-1.4747	0.75	0.38
<a href="#">GO:0010685</a>	tetracyclic triterpenoid metabolic process	0.004 %	-1.4747	0.78	0.79
<a href="#">GO:0010683</a>	tricyclic triterpenoid metabolic process	0.013 %	-1.4014	0.76	0.84
<a href="#">GO:0019742</a>	pentacyclic triterpenoid metabolic process	0.004 %	-1.3022	0.78	0.84
<a href="#">GO:0019745</a>	pentacyclic triterpenoid biosynthetic process	0.004 %	-1.4747	0.75	0.81
<a href="#">GO:0016104</a>	triterpenoid biosynthetic process	0.030 %	-1.2447	0.72	0.93
<a href="#">GO:0080003</a>	thalianol metabolic process	0.009 %	-1.5168	0.77	0.87
<a href="#">GO:0006722</a>	triterpenoid metabolic process	0.035 %	-1.0981	0.77	0.55
<a href="#">GO:0010263</a>	tricyclic triterpenoid biosynthetic process	0.009 %	-1.4883	0.74	0.96
<a href="#">GO:0072351</a>	tricarboxylic acid biosynthetic process	0.022 %	-2.3714	0.73	0.38
<a href="#">GO:0050789</a>	regulation of biological process	24.333 %	-1.1910	0.92	0.38
<a href="#">GO:0009611</a>	response to wounding	0.816 %	-1.0587	0.94	0.38
<a href="#">GO:0010232</a>	vascular transport	0.065 %	-1.1201	0.79	0.38
<a href="#">GO:0044765</a>	single-organism transport	5.287 %	-1.0542	0.78	0.53
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.0037	0.79	0.63
<a href="#">GO:0010233</a>	phloem transport	0.065 %	-1.1201	0.79	0.38
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-1.4939	0.93	0.39
<a href="#">GO:0009735</a>	response to cytokinin	1.010 %	-1.0603	0.93	0.52
<a href="#">GO:0009269</a>	response to desiccation	0.073 %	-1.0527	0.92	0.73
<a href="#">GO:0009414</a>	response to water deprivation	1.390 %	-1.0844	0.90	0.61
<a href="#">GO:0009415</a>	response to water	1.416 %	-1.0610	0.90	0.74
<a href="#">GO:0006576</a>	cellular biogenic amine metabolic process	0.255 %	-3.1896	0.81	0.40
<a href="#">GO:0030418</a>	nicotianamine biosynthetic process	0.022 %	-2.3714	0.67	0.80
<a href="#">GO:0030417</a>	nicotianamine metabolic process	0.022 %	-2.3714	0.70	0.80
<a href="#">GO:0044106</a>	cellular amine metabolic process	0.306 %	-2.9308	0.82	0.89
<a href="#">GO:0008295</a>	spermidine biosynthetic process	0.039 %	-1.4365	0.80	0.91
<a href="#">GO:0006597</a>	spermine biosynthetic process	0.026 %	-1.6551	0.80	0.88
<a href="#">GO:0006595</a>	polyamine metabolic process	0.095 %	-2.4979	0.82	0.89
<a href="#">GO:0006596</a>	polyamine biosynthetic process	0.065 %	-1.2935	0.80	0.94
<a href="#">GO:0008215</a>	spermine metabolic process	0.035 %	-1.6551	0.82	0.90
<a href="#">GO:0008216</a>	spermidine metabolic process	0.056 %	-2.9510	0.82	0.86
<a href="#">GO:0009309</a>	amine biosynthetic process	0.186 %	-2.3578	0.80	0.85
<a href="#">GO:0042401</a>	cellular biogenic amine biosynthetic process	0.186 %	-2.3578	0.79	0.94
<a href="#">GO:0080190</a>	lateral growth	0.022 %	-1.0035	0.90	0.40
<a href="#">GO:0031222</a>	arabinan catabolic process	0.004 %	-1.5168	0.79	0.41
<a href="#">GO:0045493</a>	xylan catabolic process	0.017 %	-1.1555	0.88	0.52
<a href="#">GO:1900000</a>	regulation of anthocyanin catabolic process	0.004 %	-1.9749	0.73	0.41
<a href="#">GO:0016139</a>	glycoside catabolic process	0.009 %	-1.3112	0.76	0.89
<a href="#">GO:0031537</a>	regulation of anthocyanin metabolic process	0.095 %	-1.0207	0.75	0.74
<a href="#">GO:0046149</a>	pigment catabolic process	0.082 %	-1.0824	0.80	0.56
<a href="#">GO:0009963</a>	positive regulation of flavonoid biosynthetic process	0.039 %	-1.5168	0.85	0.61
<a href="#">GO:0046284</a>	anthocyanin-containing compound catabolic process	0.004 %	-1.9749	0.76	1.00
<a href="#">GO:0046275</a>	flavonoid catabolic process	0.004 %	-1.9749	0.90	0.54
<a href="#">GO:0016137</a>	glycoside metabolic process	0.017 %	-1.1744	0.80	0.41
<a href="#">GO:1901657</a>	glycosyl compound metabolic process	1.912 %	-1.0497	0.73	0.52
<a href="#">GO:0071732</a>	cellular response to nitric oxide	0.086 %	-1.0163	0.90	0.42
<a href="#">GO:0044712</a>	single-organism catabolic process	2.676 %	-1.6115	0.72	0.43
<a href="#">GO:0010207</a>	photosystem II assembly	0.086 %	-1.2151	0.92	0.44
<a href="#">GO:0044711</a>	single-organism biosynthetic process	7.549 %	-1.4029	0.71	0.45
<a href="#">GO:0072350</a>	tricarboxylic acid metabolic process	0.259 %	-1.3022	0.72	0.45
<a href="#">GO:0007568</a>	aging	0.544 %	-1.3679	0.82	0.45
<a href="#">GO:0009744</a>	response to sucrose	0.237 %	-1.3008	0.93	0.46
<a href="#">GO:0034285</a>	response to disaccharide	0.242 %	-1.3008	0.93	0.87
<a href="#">GO:1901700</a>	response to oxygen-containing compound	6.504 %	-1.1893	0.92	0.47
<a href="#">GO:0010817</a>	regulation of hormone levels	1.109 %	-1.2879	0.93	0.49
<a href="#">GO:0009743</a>	response to carbohydrate	0.518 %	-1.4905	0.93	0.49

## Biological Process (106) Tag Clouds

Scatterplot & Table    Interactive Graph    TreeMap

## GROUP 24

[Hide/show dispensable GO terms](#)

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0010411</a>	xyloglucan metabolic process	0.259 %		-2.2642	0.88	0.00
<a href="#">GO:0010383</a>	cell wall polysaccharide metabolic process	0.518 %		-1.3226	0.88	0.93
<a href="#">GO:0010410</a>	hemicellulose metabolic process	0.423 %		-1.5954	0.88	0.92
<a href="#">GO:0044036</a>	cell wall macromolecule metabolic process	0.665 %		-1.1798	0.89	0.61
<a href="#">GO:0048364</a>	root development	1.886 %		-2.2506	0.61	0.00
<a href="#">GO:0048528</a>	post-embryonic root development	0.501 %		-1.6120	0.62	0.93
<a href="#">GO:0048527</a>	lateral root development	0.457 %		-1.7867	0.62	0.92
<a href="#">GO:0099402</a>	plant organ development	3.763 %		-1.7557	0.63	0.67
<a href="#">GO:1905392</a>	plant organ morphogenesis	1.485 %		-1.4864	0.62	0.77
<a href="#">GO:0022622</a>	root system development	1.895 %		-2.2370	0.65	0.61
<a href="#">GO:0010102</a>	lateral root morphogenesis	0.229 %		-2.3492	0.63	0.77
<a href="#">GO:0010101</a>	post-embryonic root morphogenesis	0.233 %		-2.3492	0.62	0.90
<a href="#">GO:0009791</a>	post-embryonic development	5.848 %		-1.1812	0.65	0.59
<a href="#">GO:0090697</a>	post-embryonic plant organ morphogenesis	0.419 %		-1.8165	0.61	0.86
<a href="#">GO:0090696</a>	post-embryonic plant organ development	0.686 %		-1.3306	0.64	0.71
<a href="#">GO:0010015</a>	root morphogenesis	0.967 %		-1.5035	0.61	0.90
<a href="#">GO:0009812</a>	flavonoid metabolic process	0.414 %		-1.1727	0.94	0.06
<a href="#">GO:0046717</a>	acid secretion	0.026 %		-2.0574	0.77	0.08
<a href="#">GO:0080149</a>	sucrose induced translational repression	0.004 %		-2.0118	0.80	0.09

<a href="#">GO:0032055</a>	<i>negative regulation of translation in response to stress</i>	0.004 %	-2.0118	0.80	1.00
<a href="#">GO:0019048</a>	<b>modulation by virus of host morphology or physiology</b>	0.017 %	-1.4609	0.90	0.10
<a href="#">GO:0009813</a>	<b>flavonoid biosynthetic process</b>	0.332 %	-1.4181	0.90	0.14
<a href="#">GO:0046246</a>	<b>terpene biosynthetic process</b>	0.043 %	-1.3385	0.79	0.17
<a href="#">GO:0042214</a>	<i>terpene metabolic process</i>	0.065 %	-1.1559	0.82	0.63
<a href="#">GO:2000072</a>	<b>regulation of defense response to fungus, incompatible interaction</b>	0.013 %	-1.8368	0.87	0.18
<a href="#">GO:1900150</a>	<i>regulation of defense response to fungus</i>	0.073 %	-1.2169	0.86	0.72
<a href="#">GO:0046439</a>	<b>L-cysteine metabolic process</b>	0.017 %	-1.9707	0.78	0.24
<a href="#">GO:0006561</a>	<i>proline biosynthetic process</i>	0.043 %	-1.1392	0.75	0.74
<a href="#">GO:0006560</a>	<i>proline metabolic process</i>	0.065 %	-1.1079	0.77	0.53
<a href="#">GO:0019450</a>	<i>L-cysteine catabolic process to pyruvate</i>	0.004 %	-1.9707	0.79	0.71
<a href="#">GO:0019448</a>	<i>L-cysteine catabolic process</i>	0.004 %	-1.9707	0.79	0.89
<a href="#">GO:0009734</a>	<b>auxin-activated signaling pathway</b>	0.868 %	-1.9212	0.71	0.24
<a href="#">GO:0009753</a>	<i>response to jasmonic acid</i>	0.919 %	-1.2261	0.91	0.57
<a href="#">GO:0009733</a>	<i>response to auxin</i>	1.709 %	-1.4395	0.91	0.57
<a href="#">GO:0009723</a>	<i>response to ethylene</i>	1.269 %	-1.2611	0.91	0.59
<a href="#">GO:0071365</a>	<i>cellular response to auxin stimulus</i>	0.932 %	-1.7178	0.87	0.85
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-1.2218	0.91	0.51
<a href="#">GO:0048533</a>	<b>sporocyte differentiation</b>	0.004 %	-1.3297	0.77	0.26
<a href="#">GO:0033238</a>	<b>regulation of cellular amine metabolic process</b>	0.060 %	-1.3128	0.81	0.28
<a href="#">GO:0072594</a>	<b>establishment of protein localization to organelle</b>	0.924 %	-1.0788	0.80	0.29
<a href="#">GO:0006606</a>	<i>protein import into nucleus</i>	0.242 %	-1.0103	0.70	0.82
<a href="#">GO:1902593</a>	<i>single-organism nuclear import</i>	0.242 %	-1.0103	0.71	0.99
<a href="#">GO:0033365</a>	<i>protein localization to organelle</i>	1.148 %	-1.0240	0.80	0.84
<a href="#">GO:0044744</a>	<i>protein targeting to nucleus</i>	0.246 %	-1.0103	0.78	0.98
<a href="#">GO:0002164</a>	<b>larval development</b>	0.009 %	-1.7350	0.75	0.30
<a href="#">GO:0061062</a>	<b>regulation of nematode larval development</b>	0.009 %	-1.7350	0.68	0.30
<a href="#">GO:0002119</a>	<i>nematode larval development</i>	0.009 %	-1.7350	0.74	1.00
<a href="#">GO:0015669</a>	<b>gas transport</b>	0.009 %	-1.7828	0.79	0.32
<a href="#">GO:0015670</a>	<b>carbon dioxide transport</b>	0.014 %	-2.0118	0.77	0.33
<a href="#">GO:0010565</a>	<b>regulation of cellular ketone metabolic process</b>	0.276 %	-1.5611	0.70	0.33
<a href="#">GO:0006521</a>	<i>regulation of cellular amino acid metabolic process</i>	0.060 %	-1.4730	0.70	0.80
<a href="#">GO:0010115</a>	<i>regulation of abscisic acid biosynthetic process</i>	0.030 %	-1.2371	0.70	0.76
<a href="#">GO:0009688</a>	<i>abscisic acid biosynthetic process</i>	0.091 %	-1.0346	0.75	0.93
<a href="#">GO:0006868</a>	<b>glutamine transport</b>	0.026 %	-2.0574	0.72	0.34
<a href="#">GO:0015804</a>	<i>neutral amino acid transport</i>	0.086 %	-1.3952	0.70	0.77
<a href="#">GO:0015851</a>	<i>nucleobase transport</i>	0.108 %	-1.5840	0.71	0.57
<a href="#">GO:0015837</a>	<i>amine transport</i>	0.043 %	-2.0118	0.80	0.52
<a href="#">GO:0010585</a>	<i>glutamine secretion</i>	0.004 %	-2.0574	0.71	0.77
<a href="#">GO:0032890</a>	<i>regulation of organic acid transport</i>	0.030 %	-2.0118	0.68	0.61
<a href="#">GO:0032973</a>	<i>amino acid export</i>	0.082 %	-1.5248	0.70	0.72
<a href="#">GO:0051955</a>	<i>regulation of amino acid transport</i>	0.030 %	-2.0118	0.65	1.00
<a href="#">GO:0080143</a>	<i>regulation of amino acid export</i>	0.030 %	-2.0118	0.65	0.67
<a href="#">GO:0051952</a>	<i>regulation of amine transport</i>	0.030 %	-2.0118	0.71	0.96
<a href="#">GO:0019755</a>	<b>one-carbon compound transport</b>	0.035 %	-1.9331	0.76	0.34
<a href="#">GO:0009785</a>	<b>blue light signaling pathway</b>	0.078 %	-1.0883	0.78	0.37
<a href="#">GO:0030522</a>	<b>intracellular receptor signaling pathway</b>	0.078 %	-1.0883	0.78	0.37
<a href="#">GO:0010087</a>	<b>phloem or xylem histogenesis</b>	0.272 %	-1.3011	0.77	0.38
<a href="#">GO:0010067</a>	<i>procambium histogenesis</i>	0.039 %	-1.0788	0.69	0.53
<a href="#">GO:0010065</a>	<i>primary meristem tissue development</i>	0.043 %	-1.0103	0.69	0.86
<a href="#">GO:0009960</a>	<i>endosperm development</i>	0.134 %	-1.0025	0.68	0.59
<a href="#">GO:0010500</a>	<b>transmitting tissue development</b>	0.017 %	-1.6528	0.70	0.39
<a href="#">GO:0010480</a>	<i>microsporocyte differentiation</i>	0.244 %	-1.3297	0.59	0.93
<a href="#">GO:0048653</a>	<i>anther development</i>	0.224 %	-1.5372	0.63	0.67
<a href="#">GO:0048466</a>	<i>androecium development</i>	0.345 %	-1.1851	0.64	0.85
<a href="#">GO:0048438</a>	<i>floral whorl development</i>	0.669 %	-1.1870	0.64	0.68
<a href="#">GO:0048443</a>	<i>stamen development</i>	0.345 %	-1.1851	0.62	0.97
<a href="#">GO:0051171</a>	<b>regulation of nitrogen compound metabolic process</b>	12.430 %	-1.4252	0.74	0.41
<a href="#">GO:0010468</a>	<i>regulation of gene expression</i>	12.706 %	-1.3727	0.74	0.78
<a href="#">GO:0031323</a>	<i>regulation of cellular metabolic process</i>	13.906 %	-1.1706	0.74	0.80
<a href="#">GO:0031326</a>	<i>regulation of cellular biosynthetic process</i>	12.339 %	-1.3206	0.72	0.78
<a href="#">GO:2001141</a>	<i>regulation of RNA biosynthetic process</i>	11.282 %	-1.0216	0.71	0.88
<a href="#">GO:2000112</a>	<i>regulation of cellular macromolecule biosynthetic process</i>	12.003 %	-1.1530	0.71	0.87
<a href="#">GO:0006355</a>	<i>regulation of transcription, DNA-templated</i>	11.234 %	-1.0216	0.71	0.85
<a href="#">GO:0019222</a>	<i>regulation of metabolic process</i>	14.847 %	-1.2650	0.80	0.54
<a href="#">GO:1903506</a>	<i>regulation of nucleic acid-templated transcription</i>	11.282 %	-1.0216	0.70	0.89
<a href="#">GO:0009889</a>	<i>regulation of biosynthetic process</i>	12.408 %	-1.0809	0.74	0.78
<a href="#">GO:0010556</a>	<i>regulation of macromolecule biosynthetic process</i>	12.076 %	-1.1464	0.72	0.87
<a href="#">GO:0010051</a>	<b>xylem and phloem pattern formation</b>	0.259 %	-1.1176	0.72	0.41
<a href="#">GO:0010588</a>	<i>cotyledon vascular tissue pattern formation</i>	0.060 %	-1.0223	0.63	0.76
<a href="#">GO:0071705</a>	<b>nitrogen compound transport</b>	1.515 %	-1.0479	0.82	0.42
<a href="#">GO:0044765</a>	<i>single-organism transport</i>	5.287 %	-1.1796	0.67	0.53

<a href="#">GO:0071702</a>	<i>organic substance transport</i>	5.585 %	-1.1013	0.80	0.65
<a href="#">GO:1902578</a>	<i>single-organism localization</i>	5.481 %	-1.1267	0.72	0.63
<a href="#">GO:0090698</a>	<b>post-embryonic plant morphogenesis</b>	<b>0.716 %</b>	<b>-2.1323</b>	<b>0.73</b>	<b>0.42</b>
<a href="#">GO:0010223</a>	<i>secondary shoot formation</i>	0.112 %	-1.0305	0.67	0.79
<a href="#">GO:1905393</a>	<i>plant organ formation</i>	0.427 %	-1.0351	0.73	0.62
<a href="#">GO:0010346</a>	<i>shoot axis formation</i>	0.112 %	-1.0305	0.67	0.80
<a href="#">GO:0042180</a>	<b>cellular ketone metabolic process</b>	<b>0.470 %</b>	<b>-1.3816</b>	<b>0.79</b>	<b>0.43</b>
<a href="#">GO:0048359</a>	<b>mucilage metabolic process involved in seed coat development</b>	<b>0.086 %</b>	<b>-1.1732</b>	<b>0.67</b>	<b>0.44</b>
<a href="#">GO:0009845</a>	<b>seed germination</b>	<b>0.600 %</b>	<b>-2.0692</b>	<b>0.67</b>	<b>0.45</b>
<a href="#">GO:0090351</a>	<i>seedling development</i>	0.660 %	-1.9684	0.67	0.53
<a href="#">GO:0080001</a>	<i>mucilage extrusion from seed coat</i>	0.022 %	-1.2302	0.71	0.74
<a href="#">GO:0043555</a>	<b>regulation of translation in response to stress</b>	<b>0.004 %</b>	<b>-2.0118</b>	<b>0.81</b>	<b>0.48</b>
<a href="#">GO:0015853</a>	<b>adenine transport</b>	<b>0.017 %</b>	<b>-1.9707</b>	<b>0.73</b>	<b>0.49</b>
<a href="#">GO:0006863</a>	<i>purine nucleobase transport</i>	0.095 %	-1.5840	0.71	0.87
<a href="#">GO:0015854</a>	<i>guanine transport</i>	0.017 %	-1.9707	0.73	0.80

Biological Process (166) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 25

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000003</a>	reproduction	6.655 %		-1.3173	1.00	0.00
<a href="#">GO:0007623</a>	circadian rhythm	0.539 %		-1.1114	0.99	0.00
<a href="#">GO:0009744</a>	response to sucrose	0.237 %		-2.8290	0.88	0.00
<i>GO:0034285</i>	<i>response to disaccharide</i>	0.242 %		-2.8290	0.88	0.87
<a href="#">GO:0010026</a>	trichome differentiation	0.341 %		-5.5289	0.62	0.00
<i>GO:0045168</i>	<i>cell-cell signaling involved in cell fate commitment</i>	0.168 %		-3.9467	0.63	0.76
<i>GO:0045165</i>	<i>cell fate commitment</i>	0.341 %		-1.7341	0.66	0.65
<i>GO:0003002</i>	<i>regionalization</i>	0.617 %		-1.4143	0.65	0.72
<i>GO:0010454</i>	<i>negative regulation of cell fate commitment</i>	0.022 %		-4.6846	0.59	0.91
<i>GO:0010453</i>	<i>regulation of cell fate commitment</i>	0.047 %		-3.2889	0.60	0.81
<i>GO:0090558</i>	<i>plant epidermis development</i>	1.001 %		-2.6738	0.69	0.71
<i>GO:0048581</i>	<i>negative regulation of post-embryonic development</i>	0.354 %		-1.7784	0.55	0.80
<i>GO:0048586</i>	<i>regulation of long-day photoperiodism, flowering</i>	0.086 %		-1.0723	0.53	0.90
<i>GO:0030154</i>	<i>cell differentiation</i>	3.332 %		-1.0501	0.59	0.78
<i>GO:0048579</i>	<i>negative regulation of long-day photoperiodism, flowering</i>	0.039 %		-1.4158	0.54	0.66
<i>GO:0010160</i>	<i>formation of animal organ boundary</i>	0.055 %		-1.1637	0.67	0.77

<a href="#">GO:0045596</a>	negative regulation of cell differentiation	0.052 %	-2.3528	0.58	0.75
<a href="#">GO:0048629</a>	trichome patterning	0.030 %	-3.9467	0.61	0.78
<a href="#">GO:0010090</a>	trichome morphogenesis	0.246 %	-3.7553	0.60	0.80
<a href="#">GO:0010089</a>	xylem development	0.151 %	-1.6584	0.73	0.60
<a href="#">GO:0010091</a>	trichome branching	0.121 %	-3.7824	0.62	0.89
<a href="#">GO:0010087</a>	phloem or xylem histogenesis	0.272 %	-1.0048	0.72	0.63
<a href="#">GO:1902182</a>	shoot apical meristem development	0.047 %	-1.3055	0.74	0.55
<a href="#">GO:0048468</a>	cell development	1.217 %	-2.1254	0.62	0.65
<a href="#">GO:1900033</a>	negative regulation of trichome patterning	0.022 %	-4.6846	0.52	0.65
<a href="#">GO:0000904</a>	cell morphogenesis involved in differentiation	0.880 %	-1.5536	0.60	0.81
<a href="#">GO:1900032</a>	regulation of trichome patterning	0.022 %	-4.6846	0.54	0.96
<a href="#">GO:0090626</a>	plant epidermis morphogenesis	0.367 %	-3.3340	0.68	0.81
<a href="#">GO:0010492</a>	maintenance of shoot apical meristem identity	0.056 %	-1.1724	0.70	0.61
<a href="#">GO:0023052</a>	<b>signaling</b>	<b>8.908 %</b>	<b>-1.4535</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0032502</a>	<b>developmental process</b>	<b>12.689 %</b>	<b>-1.6463</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0048511</a>	<b>rhythmic process</b>	<b>0.600 %</b>	<b>-1.0983</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0017183</a>	<b>peptidyl-diphthamide biosynthetic process from peptidyl-histidine</b>	<b>0.013 %</b>	<b>-1.8873</b>	<b>0.92</b>	<b>0.03</b>
<a href="#">GO:0017182</a>	peptidyl-diphthamide metabolic process	0.013 %	-1.8873	0.92	0.83
<a href="#">GO:0007154</a>	<b>cell communication</b>	<b>9.698 %</b>	<b>-1.6333</b>	<b>0.95</b>	<b>0.05</b>
<a href="#">GO:0031222</a>	<b>arabinan catabolic process</b>	<b>0.004 %</b>	<b>-3.0859</b>	<b>0.82</b>	<b>0.06</b>
<a href="#">GO:0044724</a>	single-organism carbohydrate catabolic process	0.432 %	-1.6188	0.78	0.62
<a href="#">GO:0010383</a>	cell wall polysaccharide metabolic process	0.518 %	-1.0250	0.87	0.93
<a href="#">GO:0010410</a>	hemicellulose metabolic process	0.423 %	-1.2844	0.87	0.89
<a href="#">GO:0045493</a>	xylan catabolic process	0.017 %	-2.3528	0.86	0.52
<a href="#">GO:0045491</a>	xylan metabolic process	0.173 %	-1.6481	0.88	0.72
<a href="#">GO:0006850</a>	<b>mitochondrial pyruvate transport</b>	<b>0.017 %</b>	<b>-1.9958</b>	<b>0.90</b>	<b>0.07</b>
<a href="#">GO:0006848</a>	pyruvate transport	0.026 %	-1.7633	0.90	0.77
<a href="#">GO:0000959</a>	<b>mitochondrial RNA metabolic process</b>	<b>0.324 %</b>	<b>-1.0523</b>	<b>0.92</b>	<b>0.09</b>
<a href="#">GO:0031539</a>	<b>positive regulation of anthocyanin metabolic process</b>	<b>0.022 %</b>	<b>-1.6396</b>	<b>0.79</b>	<b>0.15</b>
<a href="#">GO:0046283</a>	anthocyanin-containing compound metabolic process	0.190 %	-1.2343	0.85	0.74
<a href="#">GO:0006083</a>	<b>acetate metabolic process</b>	<b>0.009 %</b>	<b>-1.4842</b>	<b>0.85</b>	<b>0.16</b>
<a href="#">GO:0001666</a>	<b>response to hypoxia</b>	<b>0.250 %</b>	<b>-2.1469</b>	<b>0.88</b>	<b>0.17</b>
<a href="#">GO:0036293</a>	response to decreased oxygen levels	0.281 %	-2.0540	0.88	0.99
<a href="#">GO:0036294</a>	cellular response to decreased oxygen levels	0.129 %	-1.8183	0.82	0.99
<a href="#">GO:0071456</a>	cellular response to hypoxia	0.117 %	-1.8986	0.82	0.92
<a href="#">GO:0071453</a>	cellular response to oxygen levels	0.129 %	-1.8183	0.83	0.92
<a href="#">GO:0008037</a>	<b>cell recognition</b>	<b>0.220 %</b>	<b>-1.0108</b>	<b>0.85</b>	<b>0.19</b>
<a href="#">GO:0007267</a>	<b>cell-cell signaling</b>	<b>0.371 %</b>	<b>-2.6864</b>	<b>0.81</b>	<b>0.20</b>
<a href="#">GO:0019220</a>	<b>regulation of phosphate metabolic process</b>	<b>0.561 %</b>	<b>-1.1931</b>	<b>0.79</b>	<b>0.24</b>
<a href="#">GO:0035303</a>	regulation of dephosphorylation	0.060 %	-1.0523	0.82	0.82
<a href="#">GO:0035304</a>	regulation of protein dephosphorylation	0.047 %	-1.0655	0.79	0.95
<a href="#">GO:0010921</a>	regulation of phosphatase activity	0.035 %	-1.1995	0.82	0.78
<a href="#">GO:0043666</a>	regulation of phosphoprotein phosphatase activity	0.022 %	-1.2186	0.80	0.93
<a href="#">GO:0080163</a>	regulation of protein serine/threonine phosphatase activity	0.017 %	-1.3055	0.81	0.89
<a href="#">GO:0051716</a>	<b>cellular response to stimulus</b>	<b>12.637 %</b>	<b>-1.1126</b>	<b>0.86</b>	<b>0.25</b>
<a href="#">GO:0048519</a>	<b>negative regulation of biological process</b>	<b>3.716 %</b>	<b>-1.1926</b>	<b>0.85</b>	<b>0.25</b>
<a href="#">GO:0060771</a>	<b>phyllotactic patterning</b>	<b>0.017 %</b>	<b>-1.3570</b>	<b>0.72</b>	<b>0.26</b>
<a href="#">GO:0060774</a>	auxin mediated signaling pathway involved in phyllotactic patterning	0.009 %	-1.4158	0.61	0.79
<a href="#">GO:0060772</a>	leaf phyllotactic patterning	0.013 %	-1.3709	0.72	0.95
<a href="#">GO:0006839</a>	<b>mitochondrial transport</b>	<b>0.522 %</b>	<b>-1.0589</b>	<b>0.98</b>	<b>0.27</b>
<a href="#">GO:0000957</a>	<b>mitochondrial RNA catabolic process</b>	<b>0.009 %</b>	<b>-2.1413</b>	<b>0.90</b>	<b>0.29</b>
<a href="#">GO:0000963</a>	mitochondrial RNA processing	0.043 %	-1.4486	0.91	0.67
<a href="#">GO:0048826</a>	<b>cotyledon morphogenesis</b>	<b>0.073 %</b>	<b>-2.9354</b>	<b>0.64</b>	<b>0.29</b>
<a href="#">GO:0044702</a>	single organism reproductive process	5.939 %	-1.4242	0.77	0.78
<a href="#">GO:2000032</a>	regulation of secondary shoot formation	0.030 %	-1.6396	0.61	0.64
<a href="#">GO:0010228</a>	vegetative to reproductive phase transition of meristem	0.738 %	-1.0727	0.63	0.68
<a href="#">GO:0060688</a>	regulation of morphogenesis of a branching structure	0.030 %	-1.6396	0.63	0.82
<a href="#">GO:1905392</a>	plant organ morphogenesis	1.485 %	-1.3075	0.61	0.71
<a href="#">GO:0010214</a>	seed coat development	0.168 %	-1.3417	0.66	0.58
<a href="#">GO:0048825</a>	cotyledon development	0.190 %	-2.0580	0.64	0.63
<a href="#">GO:0048367</a>	shoot system development	3.599 %	-1.0038	0.61	0.76
<a href="#">GO:0048316</a>	seed development	2.305 %	-1.4241	0.58	0.78
<a href="#">GO:0010154</a>	fruit development	2.443 %	-1.6656	0.59	0.56
<a href="#">GO:0048608</a>	reproductive structure development	4.674 %	-1.4760	0.56	0.86
<a href="#">GO:0048598</a>	embryonic morphogenesis	0.125 %	-2.4329	0.68	0.58
<a href="#">GO:1900618</a>	regulation of shoot system morphogenesis	0.073 %	-1.4158	0.59	0.70
<a href="#">GO:0022414</a>	reproductive process	6.629 %	-1.3265	0.86	0.91
<a href="#">GO:1905428</a>	regulation of plant organ formation	0.047 %	-1.4158	0.65	0.69
<a href="#">GO:0009965</a>	leaf morphogenesis	0.380 %	-2.1545	0.64	0.77
<a href="#">GO:0061458</a>	reproductive system development	4.674 %	-1.4760	0.60	0.72
<a href="#">GO:2000241</a>	regulation of reproductive process	1.092 %	-1.0988	0.78	0.62

<a href="#">GO:0010016</a>	<i>shoot system morphogenesis</i>	0.708 %	-2.1324	0.63	0.53
<a href="#">GO:0071497</a>	<b>cellular response to freezing</b>	<b>0.013 %</b>	<b>-1.4486</b>	<b>0.89</b>	<b>0.31</b>
<a href="#">GO:0050826</a>	<i>response to freezing</i>	0.086 %	-1.0272	0.91	0.51
<a href="#">GO:0010541</a>	<b>acropetal auxin transport</b>	<b>0.013 %</b>	<b>-1.0334</b>	<b>0.86</b>	<b>0.32</b>
<a href="#">GO:0051093</a>	<b>negative regulation of developmental process</b>	<b>0.492 %</b>	<b>-3.9451</b>	<b>0.61</b>	<b>0.33</b>
<a href="#">GO:2000026</a>	<i>regulation of multicellular organismal development</i>	1.765 %	-3.0179	0.53	0.81
<a href="#">GO:0080113</a>	<i>regulation of seed growth</i>	0.039 %	-1.3435	0.60	0.64
<a href="#">GO:0023057</a>	<i>negative regulation of signaling</i>	0.345 %	-2.0419	0.74	0.58
<a href="#">GO:0090344</a>	<i>negative regulation of cell aging</i>	0.004 %	-1.8873	0.64	0.90
<a href="#">GO:0051241</a>	<i>negative regulation of multicellular organismal process</i>	0.445 %	-3.2596	0.64	0.59
<a href="#">GO:0090342</a>	<i>regulation of cell aging</i>	0.017 %	-2.7247	0.64	0.51
<a href="#">GO:0048831</a>	<i>regulation of shoot system development</i>	0.850 %	-1.5235	0.54	0.87
<a href="#">GO:0007569</a>	<i>cell aging</i>	0.022 %	-2.7053	0.71	0.61
<a href="#">GO:0048585</a>	<i>negative regulation of response to stimulus</i>	0.699 %	-1.1460	0.76	0.62
<a href="#">GO:0048580</a>	<i>regulation of post-embryonic development</i>	1.303 %	-1.2719	0.54	0.92
<a href="#">GO:0010648</a>	<i>negative regulation of cell communication</i>	0.345 %	-2.0419	0.77	0.58
<a href="#">GO:0045995</a>	<i>regulation of embryonic development</i>	0.056 %	-1.2186	0.63	0.60
<a href="#">GO:2000242</a>	<i>negative regulation of reproductive process</i>	0.220 %	-1.5181	0.75	0.55
<a href="#">GO:0009909</a>	<i>regulation of flower development</i>	0.609 %	-1.1338	0.52	0.84
<a href="#">GO:0048518</a>	<b>positive regulation of biological process</b>	<b>4.398 %</b>	<b>-1.0027</b>	<b>0.85</b>	<b>0.33</b>
<a href="#">GO:0051239</a>	<b>regulation of multicellular organismal process</b>	<b>1.972 %</b>	<b>-2.6186</b>	<b>0.72</b>	<b>0.35</b>
<a href="#">GO:0046477</a>	<b>glycosylceramide catabolic process</b>	<b>0.017 %</b>	<b>-1.4003</b>	<b>0.75</b>	<b>0.38</b>
<a href="#">GO:0030149</a>	<i>sphingolipid catabolic process</i>	0.022 %	-1.3709	0.76	0.97
<a href="#">GO:0046466</a>	<i>membrane lipid catabolic process</i>	0.026 %	-1.1637	0.78	0.68
<a href="#">GO:0016139</a>	<i>glycoside catabolic process</i>	0.009 %	-1.1812	0.83	0.63
<a href="#">GO:0046479</a>	<i>glycosphingolipid catabolic process</i>	0.017 %	-1.4003	0.75	1.00
<a href="#">GO:0006672</a>	<i>ceramide metabolic process</i>	0.078 %	-1.2491	0.78	0.80
<a href="#">GO:0006677</a>	<i>glycosylceramide metabolic process</i>	0.022 %	-1.4003	0.78	0.99
<a href="#">GO:0006687</a>	<i>glycosphingolipid metabolic process</i>	0.022 %	-1.4003	0.78	0.73
<a href="#">GO:0046514</a>	<i>ceramide catabolic process</i>	0.017 %	-1.4003	0.76	0.97
<a href="#">GO:0019377</a>	<i>glycolipid catabolic process</i>	0.017 %	-1.4003	0.76	0.95
<a href="#">GO:0070482</a>	<b>response to oxygen levels</b>	<b>0.285 %</b>	<b>-2.0419</b>	<b>0.90</b>	<b>0.39</b>
<a href="#">GO:0051174</a>	<b>regulation of phosphorus metabolic process</b>	<b>0.561 %</b>	<b>-1.1931</b>	<b>0.82</b>	<b>0.40</b>
<a href="#">GO:0048544</a>	<b>recognition of pollen</b>	<b>0.211 %</b>	<b>-1.0148</b>	<b>0.69</b>	<b>0.40</b>
<a href="#">GO:0009875</a>	<i>pollen-pistil interaction</i>	0.237 %	-1.0088	0.75	0.74
<a href="#">GO:0031221</a>	<b>arabinan metabolic process</b>	<b>0.009 %</b>	<b>-2.7247</b>	<b>0.84</b>	<b>0.40</b>
<a href="#">GO:1900030</a>	<b>regulation of pectin biosynthetic process</b>	<b>0.004 %</b>	<b>-1.8873</b>	<b>0.78</b>	<b>0.40</b>
<a href="#">GO:0032885</a>	<i>regulation of polysaccharide biosynthetic process</i>	0.043 %	-1.0334	0.75	0.80
<a href="#">GO:0050793</a>	<b>regulation of developmental process</b>	<b>2.577 %</b>	<b>-3.4761</b>	<b>0.65</b>	<b>0.40</b>
<a href="#">GO:0046246</a>	<b>terpene biosynthetic process</b>	<b>0.043 %</b>	<b>-1.1724</b>	<b>0.81</b>	<b>0.41</b>
<a href="#">GO:0006002</a>	<b>fructose 6-phosphate metabolic process</b>	<b>0.060 %</b>	<b>-1.2387</b>	<b>0.90</b>	<b>0.41</b>
<a href="#">GO:0016137</a>	<b>glycoside metabolic process</b>	<b>0.017 %</b>	<b>-1.0459</b>	<b>0.86</b>	<b>0.41</b>
<a href="#">GO:0046459</a>	<b>short-chain fatty acid metabolic process</b>	<b>0.013 %</b>	<b>-1.4158</b>	<b>0.82</b>	<b>0.41</b>
<a href="#">GO:0010646</a>	<b>regulation of cell communication</b>	<b>1.139 %</b>	<b>-1.4595</b>	<b>0.81</b>	<b>0.42</b>
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-1.0289</b>	<b>0.90</b>	<b>0.43</b>
<a href="#">GO:0007389</a>	<b>pattern specification process</b>	<b>0.742 %</b>	<b>-1.2384</b>	<b>0.68</b>	<b>0.44</b>
<a href="#">GO:0023051</a>	<b>regulation of signaling</b>	<b>1.126 %</b>	<b>-1.4675</b>	<b>0.83</b>	<b>0.44</b>
<a href="#">GO:0044700</a>	<i>single organism signaling</i>	8.899 %	-1.4561	0.82	0.64
<a href="#">GO:0006097</a>	<b>glyoxylate cycle</b>	<b>0.030 %</b>	<b>-1.3055</b>	<b>0.80</b>	<b>0.44</b>
<a href="#">GO:0046487</a>	<i>glyoxylate metabolic process</i>	0.035 %	-1.2820	0.83	0.72
<a href="#">GO:0009733</a>	<b>response to auxin</b>	<b>1.709 %</b>	<b>-1.9683</b>	<b>0.86</b>	<b>0.44</b>
<a href="#">GO:0071229</a>	<i>cellular response to acid chemical</i>	2.158 %	-1.0410	0.82	0.79
<a href="#">GO:0009740</a>	<i>gibberellic acid mediated signaling pathway</i>	0.341 %	-1.5803	0.66	0.62
<a href="#">GO:0009739</a>	<i>response to gibberellin</i>	0.626 %	-1.8291	0.86	0.55
<a href="#">GO:0009725</a>	<i>response to hormone</i>	6.871 %	-1.2954	0.84	0.82
<a href="#">GO:0010476</a>	<i>gibberellin mediated signaling pathway</i>	0.345 %	-1.4930	0.66	0.99
<a href="#">GO:0032870</a>	<i>cellular response to hormone stimulus</i>	3.871 %	-1.0432	0.80	0.69
<a href="#">GO:0070887</a>	<i>cellular response to chemical stimulus</i>	5.287 %	-1.4603	0.83	0.52
<a href="#">GO:0071370</a>	<i>cellular response to gibberellin stimulus</i>	0.354 %	-1.4376	0.83	0.89
<a href="#">GO:0071310</a>	<i>cellular response to organic substance</i>	4.601 %	-1.1080	0.81	0.88
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-1.4401	0.86	0.68
<a href="#">GO:0071495</a>	<i>cellular response to endogenous stimulus</i>	3.988 %	-1.0210	0.87	0.75
<a href="#">GO:1902184</a>	<b>negative regulation of shoot apical meristem development</b>	<b>0.004 %</b>	<b>-2.3626</b>	<b>0.67</b>	<b>0.47</b>
<a href="#">GO:1902183</a>	<i>regulation of shoot apical meristem development</i>	0.039 %	-1.3055	0.65	0.85
<a href="#">GO:0009743</a>	<b>response to carbohydrate</b>	<b>0.518 %</b>	<b>-1.8247</b>	<b>0.88</b>	<b>0.48</b>
<a href="#">GO:0018202</a>	<b>peptidyl-histidine modification</b>	<b>0.060 %</b>	<b>-1.4158</b>	<b>0.92</b>	<b>0.48</b>
<a href="#">GO:0030308</a>	<b>negative regulation of cell growth</b>	<b>0.043 %</b>	<b>-1.1231</b>	<b>0.75</b>	<b>0.49</b>
<a href="#">GO:0009888</a>	<b>tissue development</b>	<b>2.326 %</b>	<b>-3.3938</b>	<b>0.70</b>	<b>0.49</b>
<a href="#">GO:0044767</a>	<i>single-organism developmental process</i>	12.123 %	-1.0604	0.62	0.85
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-1.8143	0.66	0.66
<a href="#">GO:0009653</a>	<i>anatomical structure morphogenesis</i>	3.500 %	-2.1231	0.69	0.53
<a href="#">GO:0048731</a>	<i>system development</i>	7.225 %	-1.4116	0.60	0.76



<a href="#">GO:0040019</a>	positive regulation of embryonic development	0.009 %	-1.3055	0.66	0.49
<a href="#">GO:0019605</a>	butyrate metabolic process	0.009 %	-1.4486	0.82	0.49
<a href="#">GO:0080112</a>	seed growth	0.047 %	-1.3435	0.68	0.50
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-1.1187	0.81	0.50
<a href="#">GO:0009896</a>	<i>positive regulation of catabolic process</i>	<i>0.302 %</i>	<i>-1.0933</i>	<i>0.80</i>	<i>0.93</i>
<a href="#">GO:0031399</a>	<i>regulation of protein modification process</i>	<i>0.699 %</i>	<i>-1.0874</i>	<i>0.79</i>	<i>0.69</i>
<a href="#">GO:0045732</a>	<i>positive regulation of protein catabolic process</i>	<i>0.276 %</i>	<i>-1.0933</i>	<i>0.77</i>	<i>0.63</i>

Biological Process (113) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 26

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0007623</a>	circadian rhythm	0.539 %		-1.1632	0.98	0.00
<a href="#">GO:0010114</a>	response to red light	0.259 %		-2.9687	0.86	0.00
<a href="#">GO:0010161</a>	red light signaling pathway	0.035 %		-1.4686	0.75	0.83
<a href="#">GO:0009639</a>	response to red or far red light	0.872 %		-2.5277	0.86	0.65
<a href="#">GO:0071482</a>	cellular response to light stimulus	0.561 %		-1.6380	0.79	0.94
<a href="#">GO:0071478</a>	cellular response to radiation	0.583 %		-1.6380	0.80	0.86
<a href="#">GO:0071489</a>	cellular response to red or far red light	0.350 %		-2.2254	0.79	0.91
<a href="#">GO:0071491</a>	cellular response to red light	0.043 %		-1.4387	0.82	0.84
<a href="#">GO:0010017</a>	red or far-red light signaling pathway	0.341 %		-2.2440	0.72	0.81
<a href="#">GO:0016114</a>	terpenoid biosynthetic process	0.591 %		-2.8431	0.54	0.00
<a href="#">GO:0008299</a>	isoprenoid biosynthetic process	0.738 %		-2.5695	0.54	0.96
<a href="#">GO:0010686</a>	tetracyclic triterpenoid biosynthetic process	0.004 %		-1.7008	0.62	0.65
<a href="#">GO:0010685</a>	tetracyclic triterpenoid metabolic process	0.004 %		-1.7008	0.64	0.79
<a href="#">GO:0010683</a>	tricyclic triterpenoid metabolic process	0.013 %		-1.6270	0.62	0.84
<a href="#">GO:0016053</a>	organic acid biosynthetic process	2.296 %		-1.1496	0.59	0.54
<a href="#">GO:0019742</a>	pentacyclic triterpenoid metabolic process	0.004 %		-1.5268	0.64	0.84
<a href="#">GO:0019745</a>	pentacyclic triterpenoid biosynthetic process	0.004 %		-1.7008	0.62	0.81
<a href="#">GO:0044255</a>	cellular lipid metabolic process	3.224 %		-1.6233	0.59	0.71
<a href="#">GO:0016104</a>	triterpenoid biosynthetic process	0.030 %		-1.4686	0.58	0.93

<a href="#">GO:0016102</a>	diterpenoid biosynthetic process	0.147 %	-2.8189	0.57	0.97
<a href="#">GO:0016101</a>	diterpenoid metabolic process	0.173 %	-2.6262	0.60	0.86
<a href="#">GO:0080003</a>	thalianol metabolic process	0.009 %	-1.7432	0.63	0.87
<a href="#">GO:0006664</a>	glycolipid metabolic process	0.306 %	-1.0954	0.59	0.90
<a href="#">GO:0046488</a>	phosphatidylinositol metabolic process	0.358 %	-1.0060	0.58	0.80
<a href="#">GO:1903509</a>	liposaccharide metabolic process	0.315 %	-1.0482	0.64	0.54
<a href="#">GO:0009686</a>	gibberellin biosynthetic process	0.134 %	-2.8284	0.55	0.84
<a href="#">GO:0008610</a>	lipid biosynthetic process	2.464 %	-1.3678	0.59	0.82
<a href="#">GO:0009685</a>	gibberellin metabolic process	0.138 %	-2.7381	0.55	0.97
<a href="#">GO:0006720</a>	isoprenoid metabolic process	0.850 %	-2.3695	0.61	0.67
<a href="#">GO:0009695</a>	jasmonic acid biosynthetic process	0.086 %	-1.2066	0.68	0.64
<a href="#">GO:0006722</a>	triterpenoid metabolic process	0.035 %	-1.3199	0.64	0.75
<a href="#">GO:0006721</a>	terpenoid metabolic process	0.699 %	-2.6061	0.57	0.94
<a href="#">GO:0010263</a>	tricyclic triterpenoid biosynthetic process	0.009 %	-1.7145	0.60	0.96
<a href="#">GO:0006505</a>	GPI anchor metabolic process	0.095 %	-1.6502	0.59	0.55
<a href="#">GO:0048511</a>	rhythmic process	0.600 %	-1.1533	0.98	0.00
<a href="#">GO:0010166</a>	wax metabolic process	0.082 %	-1.0161	0.95	0.04
<a href="#">GO:0045493</a>	xylan catabolic process	0.017 %	-1.3782	0.90	0.06
<a href="#">GO:0010411</a>	xyloglucan metabolic process	0.259 %	-1.1673	0.88	0.74
<a href="#">GO:0045491</a>	xylan metabolic process	0.173 %	-1.0213	0.89	0.88
<a href="#">GO:0090467</a>	arginine import	0.004 %	-1.9488	0.79	0.07
<a href="#">GO:1902023</a>	L-arginine transport	0.004 %	-1.9488	0.79	0.86
<a href="#">GO:0043092</a>	L-amino acid import	0.017 %	-1.9488	0.78	0.80
<a href="#">GO:0043091</a>	L-arginine import	0.004 %	-1.9488	0.78	0.91
<a href="#">GO:0051938</a>	L-glutamate import	0.013 %	-2.0276	0.78	0.85
<a href="#">GO:0072527</a>	pyrimidine-containing compound metabolic process	0.298 %	-1.0399	0.81	0.07
<a href="#">GO:0010025</a>	wax biosynthetic process	0.078 %	-1.0482	0.90	0.17
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-2.1066	0.90	0.18
<a href="#">GO:0009751</a>	response to salicylic acid	0.876 %	-1.0264	0.90	0.58
<a href="#">GO:0048768</a>	root hair cell tip growth	0.078 %	-2.7212	0.66	0.18
<a href="#">GO:0048765</a>	root hair cell differentiation	0.406 %	-1.3800	0.63	0.97
<a href="#">GO:0048767</a>	root hair elongation	0.229 %	-1.8124	0.64	0.87
<a href="#">GO:0048764</a>	trichoblast maturation	0.406 %	-1.3800	0.63	0.99
<a href="#">GO:1905392</a>	plant organ morphogenesis	1.485 %	-1.5703	0.73	0.57
<a href="#">GO:0010054</a>	trichoblast differentiation	0.427 %	-1.2944	0.63	0.95
<a href="#">GO:0010053</a>	root epidermal cell differentiation	0.488 %	-1.1404	0.63	0.89
<a href="#">GO:0010338</a>	leaf formation	0.022 %	-1.4040	0.78	0.53
<a href="#">GO:0080147</a>	root hair cell development	0.319 %	-1.6146	0.64	0.93
<a href="#">GO:0090627</a>	plant epidermal cell differentiation	0.621 %	-1.1163	0.68	0.54
<a href="#">GO:0048469</a>	cell maturation	0.410 %	-1.3800	0.67	0.76
<a href="#">GO:0010015</a>	root morphogenesis	0.967 %	-1.3888	0.72	0.73
<a href="#">GO:0008356</a>	asymmetric cell division	0.091 %	-1.2192	0.79	0.19
<a href="#">GO:0009267</a>	cellular response to starvation	0.496 %	-1.3388	0.79	0.19
<a href="#">GO:0042594</a>	response to starvation	0.531 %	-1.3039	0.85	0.95
<a href="#">GO:0031668</a>	cellular response to extracellular stimulus	0.691 %	-1.0309	0.79	0.97
<a href="#">GO:0031667</a>	response to nutrient levels	0.639 %	-1.0746	0.85	0.93
<a href="#">GO:0009970</a>	cellular response to sulfate starvation	0.052 %	-1.2410	0.82	0.81
<a href="#">GO:0031669</a>	cellular response to nutrient levels	0.557 %	-1.1971	0.79	0.96
<a href="#">GO:0071496</a>	cellular response to external stimulus	0.712 %	-1.0115	0.89	0.50
<a href="#">GO:0010876</a>	lipid localization	0.708 %	-1.0239	0.91	0.24
<a href="#">GO:0061062</a>	regulation of nematode larval development	0.009 %	-1.9255	0.81	0.25
<a href="#">GO:0002119</a>	nematode larval development	0.009 %	-1.9255	0.82	1.00
<a href="#">GO:0051260</a>	protein homoooligomerization	0.151 %	-1.4245	0.92	0.26
<a href="#">GO:0051259</a>	protein oligomerization	0.224 %	-1.0110	0.92	0.68
<a href="#">GO:0010031</a>	circumnutation	0.026 %	-1.8247	0.83	0.26
<a href="#">GO:0050879</a>	multicellular organismal movement	0.026 %	-1.8247	0.83	0.26
<a href="#">GO:0002164</a>	larval development	0.009 %	-1.9255	0.83	0.29
<a href="#">GO:0009944</a>	polarity specification of adaxial/abaxial axis	0.095 %	-1.2885	0.78	0.29
<a href="#">GO:0009943</a>	adaxial/abaxial axis specification	0.108 %	-1.2278	0.78	0.94
<a href="#">GO:0009955</a>	adaxial/abaxial pattern specification	0.151 %	-1.0426	0.78	0.75
<a href="#">GO:0065001</a>	specification of axis polarity	0.112 %	-1.2365	0.78	0.91
<a href="#">GO:0006629</a>	lipid metabolic process	4.683 %	-1.7874	0.70	0.34
<a href="#">GO:0015748</a>	organophosphate ester transport	0.203 %	-1.6050	0.80	0.34
<a href="#">GO:0044205</a>	'de novo' UMP biosynthetic process	0.026 %	-1.9997	0.55	0.36
<a href="#">GO:0046131</a>	pyrimidine ribonucleoside metabolic process	0.173 %	-1.3145	0.54	0.97
<a href="#">GO:0046132</a>	pyrimidine ribonucleoside biosynthetic process	0.129 %	-1.3423	0.53	0.97
<a href="#">GO:0009218</a>	pyrimidine ribonucleotide metabolic process	0.125 %	-1.3782	0.55	0.86
<a href="#">GO:0009220</a>	pyrimidine ribonucleotide biosynthetic process	0.125 %	-1.3782	0.52	0.96
<a href="#">GO:0046112</a>	nucleobase biosynthetic process	0.099 %	-1.3782	0.60	0.89
<a href="#">GO:0046134</a>	pyrimidine nucleoside biosynthetic process	0.129 %	-1.3423	0.53	0.89

<a href="#">GO:0009112</a>	<i>nucleobase metabolic process</i>	0.216 %	-1.2321	0.61	0.55
<a href="#">GO:0009129</a>	<i>pyrimidine nucleoside monophosphate metabolic process</i>	0.099 %	-1.5944	0.62	0.61
<a href="#">GO:0009130</a>	<i>pyrimidine nucleoside monophosphate biosynthetic process</i>	0.095 %	-1.5944	0.58	0.98
<a href="#">GO:0072528</a>	<i>pyrimidine-containing compound biosynthetic process</i>	0.233 %	-1.0954	0.67	0.94
<a href="#">GO:0046049</a>	<i>UMP metabolic process</i>	0.078 %	-1.6502	0.54	0.99
<a href="#">GO:0009174</a>	<i>pyrimidine ribonucleoside monophosphate biosynthetic process</i>	0.078 %	-1.6502	0.58	0.99
<a href="#">GO:0009173</a>	<i>pyrimidine ribonucleoside monophosphate metabolic process</i>	0.082 %	-1.6502	0.60	0.97
<a href="#">GO:0019856</a>	<i>pyrimidine nucleobase biosynthetic process</i>	0.056 %	-1.5739	0.56	0.86
<a href="#">GO:0006207</a>	<i>'de novo' pyrimidine nucleobase biosynthetic process</i>	0.039 %	-1.6623	0.57	0.90
<a href="#">GO:0006206</a>	<i>pyrimidine nucleobase metabolic process</i>	0.112 %	-1.4460	0.57	0.77
<a href="#">GO:0006220</a>	<i>pyrimidine nucleotide metabolic process</i>	0.168 %	-1.2737	0.55	0.91
<a href="#">GO:0006213</a>	<i>pyrimidine nucleoside metabolic process</i>	0.181 %	-1.3145	0.55	0.89
<a href="#">GO:0006221</a>	<i>pyrimidine nucleotide biosynthetic process</i>	0.168 %	-1.2885	0.52	0.98
<a href="#">GO:0006222</a>	<i>UMP biosynthetic process</i>	0.078 %	-1.6502	0.52	0.93
<a href="#">GO:0071214</a>	<b>cellular response to abiotic stimulus</b>	<b>0.889 %</b>	<b>-1.1822</b>	<b>0.83</b>	<b>0.44</b>
<a href="#">GO:0009736</a>	<b>cytokinin-activated signaling pathway</b>	<b>0.328 %</b>	<b>-1.1419</b>	<b>0.76</b>	<b>0.46</b>
<a href="#">GO:0071368</a>	<i>cellular response to cytokinin stimulus</i>	0.337 %	-1.0623	0.84	0.80
<a href="#">GO:0080160</a>	<b>selenate transport</b>	<b>0.077 %</b>	<b>-1.7902</b>	<b>0.88</b>	<b>0.48</b>
<a href="#">GO:0006820</a>	<i>anion transport</i>	1.524 %	-1.1995	0.88	0.54
<a href="#">GO:0006865</a>	<i>amino acid transport</i>	0.419 %	-1.0623	0.75	0.76
<a href="#">GO:0006869</a>	<i>lipid transport</i>	0.596 %	-1.1349	0.78	0.79
<a href="#">GO:0043090</a>	<i>amino acid import</i>	0.056 %	-1.2835	0.77	0.62
<a href="#">GO:0015914</a>	<i>phospholipid transport</i>	0.065 %	-1.7583	0.77	0.57
<a href="#">GO:0015849</a>	<b>organic acid transport</b>	<b>0.682 %</b>	<b>-1.0623</b>	<b>0.78</b>	<b>0.50</b>

Biological Process (226) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 27

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0010226</a>	response to lithium ion	0.017 %		-3.3183	0.95	0.00
<a href="#">GO:0022610</a>	biological adhesion	0.060 %		-1.0154	0.99	0.00
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %		-1.6284	0.99	0.00
<a href="#">GO:0032502</a>	developmental process	12.689 %		-1.5715	0.99	0.00
<a href="#">GO:0040007</a>	growth	2.529 %		-1.2110	0.99	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-4.8075	0.99	0.00
<a href="#">GO:0050896</a>	response to stimulus	25.943 %		-1.5441	0.99	0.00
<a href="#">GO:0071824</a>	protein-DNA complex subunit organization	0.432 %		-7.0566	0.87	0.00
<i>GO:0071822</i>	<i>protein complex subunit organization</i>	<i>1.528 %</i>		<i>-3.2516</i>	<i>0.85</i>	<i>0.69</i>
<i>GO:0006325</i>	<i>chromatin organization</i>	<i>1.675 %</i>		<i>-4.2066</i>	<i>0.85</i>	<i>0.60</i>
<i>GO:0022607</i>	<i>cellular component assembly</i>	<i>3.949 %</i>		<i>-1.7982</i>	<i>0.85</i>	<i>0.79</i>
<i>GO:0065003</i>	<i>macromolecular complex assembly</i>	<i>3.220 %</i>		<i>-2.8953</i>	<i>0.84</i>	<i>0.89</i>
<i>GO:0034622</i>	<i>cellular macromolecular complex assembly</i>	<i>2.900 %</i>		<i>-3.4765</i>	<i>0.84</i>	<i>0.75</i>
<i>GO:0006461</i>	<i>protein complex assembly</i>	<i>1.303 %</i>		<i>-3.4188</i>	<i>0.85</i>	<i>0.84</i>
<a href="#">GO:0071840</a>	cellular component organization or biogenesis	14.454 %		-1.4482	0.99	0.00
<a href="#">GO:0010425</a>	DNA methylation on cytosine within a CNG sequence	0.004 %		-2.1160	0.93	0.03
<i>GO:0032776</i>	<i>DNA methylation on cytosine</i>	<i>0.078 %</i>		<i>-1.2808</i>	<i>0.91</i>	<i>0.69</i>

<a href="#">GO:0009294</a>	<b>DNA mediated transformation</b>	<b>0.099 %</b>	<b>-1.5959</b>	<b>0.95</b>	<b>0.04</b>
<a href="#">GO:0044764</a>	<i>multi-organism cellular process</i>	0.414 %	-1.0441	0.94	0.53
<a href="#">GO:0009292</a>	<i>genetic transfer</i>	0.099 %	-1.5959	0.95	0.79
<a href="#">GO:1903047</a>	<b>mitotic cell cycle process</b>	<b>1.083 %</b>	<b>-3.3132</b>	<b>0.72</b>	<b>0.04</b>
<a href="#">GO:000281</a>	<i>mitotic cytokinesis</i>	0.311 %	-1.1595	0.74	0.86
<a href="#">GO:000278</a>	<i>mitotic cell cycle</i>	1.152 %	-3.1183	0.73	0.80
<a href="#">GO:0044772</a>	<i>mitotic cell cycle phase transition</i>	0.190 %	-2.2788	0.74	0.82
<a href="#">GO:0044770</a>	<i>cell cycle phase transition</i>	0.207 %	-2.2788	0.76	0.75
<a href="#">GO:0044839</a>	<i>cell cycle G2/M phase transition</i>	0.091 %	-1.4782	0.75	0.93
<a href="#">GO:0044843</a>	<i>cell cycle G1/S phase transition</i>	0.069 %	-1.4410	0.76	0.91
<a href="#">GO:0000910</a>	<i>cytokinesis</i>	0.384 %	-1.0353	0.74	0.79
<a href="#">GO:1902749</a>	<i>regulation of cell cycle G2/M phase transition</i>	0.082 %	-1.4782	0.73	0.98
<a href="#">GO:1901987</a>	<i>regulation of cell cycle phase transition</i>	0.164 %	-1.1392	0.72	0.97
<a href="#">GO:1901990</a>	<i>regulation of mitotic cell cycle phase transition</i>	0.147 %	-1.1392	0.72	0.96
<a href="#">GO:0007135</a>	<i>meiosis II</i>	0.073 %	-1.5640	0.71	0.68
<a href="#">GO:0061640</a>	<i>cytoskeleton-dependent cytokinesis</i>	0.332 %	-1.0555	0.74	0.97
<a href="#">GO:0000082</a>	<i>G1/S transition of mitotic cell cycle</i>	0.052 %	-1.4410	0.77	0.89
<a href="#">GO:0010389</a>	<i>regulation of G2/M transition of mitotic cell cycle</i>	0.078 %	-1.4782	0.73	0.92
<a href="#">GO:0000086</a>	<i>G2/M transition of mitotic cell cycle</i>	0.086 %	-1.4782	0.76	0.99
<a href="#">GO:0022402</a>	<i>cell cycle process</i>	1.713 %	-2.0922	0.72	0.84
<a href="#">GO:0071554</a>	<b>cell wall organization or biogenesis</b>	<b>3.168 %</b>	<b>-1.0542</b>	<b>0.94</b>	<b>0.05</b>
<a href="#">GO:0072593</a>	<b>reactive oxygen species metabolic process</b>	<b>0.734 %</b>	<b>-1.6013</b>	<b>0.93</b>	<b>0.05</b>
<a href="#">GO:0006833</a>	<b>water transport</b>	<b>0.194 %</b>	<b>-1.7640</b>	<b>0.86</b>	<b>0.09</b>
<a href="#">GO:0008283</a>	<b>cell proliferation</b>	<b>0.470 %</b>	<b>-1.4735</b>	<b>0.88</b>	<b>0.10</b>
<a href="#">GO:2000026</a>	<b>regulation of multicellular organismal development</b>	<b>1.765 %</b>	<b>-2.8364</b>	<b>0.66</b>	<b>0.12</b>
<a href="#">GO:0044707</a>	<i>single-multicellular organism process</i>	10.699 %	-2.0899	0.72	0.86
<a href="#">GO:0099402</a>	<i>plant organ development</i>	3.763 %	-1.2138	0.68	0.67
<a href="#">GO:0051240</a>	<i>positive regulation of multicellular organismal process</i>	0.401 %	-1.3892	0.73	0.81
<a href="#">GO:0044767</a>	<i>single-organism developmental process</i>	12.123 %	-1.7629	0.68	0.82
<a href="#">GO:0022622</a>	<i>root system development</i>	1.895 %	-2.1434	0.70	0.61
<a href="#">GO:0048580</a>	<i>regulation of post-embryonic development</i>	1.303 %	-1.6719	0.66	0.92
<a href="#">GO:0010054</a>	<i>trichoblast differentiation</i>	0.427 %	-1.9161	0.63	0.83
<a href="#">GO:0010053</a>	<i>root epidermal cell differentiation</i>	0.488 %	-1.6283	0.63	0.94
<a href="#">GO:0007275</a>	<i>multicellular organism development</i>	10.423 %	-2.3101	0.66	0.72
<a href="#">GO:2000123</a>	<i>positive regulation of stomatal complex development</i>	0.013 %	-1.8621	0.74	0.59
<a href="#">GO:0045995</a>	<i>regulation of embryonic development</i>	0.056 %	-1.1940	0.73	0.67
<a href="#">GO:0061062</a>	<i>regulation of nematode larval development</i>	0.009 %	-1.5408	0.76	0.57
<a href="#">GO:0010015</a>	<i>root morphogenesis</i>	0.967 %	-1.3974	0.69	0.90
<a href="#">GO:0048766</a>	<i>root hair initiation</i>	0.047 %	-1.3461	0.64	0.67
<a href="#">GO:2000038</a>	<i>regulation of stomatal complex development</i>	0.039 %	-1.0092	0.72	0.73
<a href="#">GO:1905392</a>	<i>plant organ morphogenesis</i>	1.485 %	-1.2069	0.69	0.77
<a href="#">GO:0090344</a>	<i>negative regulation of cell aging</i>	0.004 %	-1.8621	0.74	0.51
<a href="#">GO:0090342</a>	<i>regulation of cell aging</i>	0.017 %	-1.1843	0.72	0.90
<a href="#">GO:0007569</a>	<i>cell aging</i>	0.022 %	-1.1749	0.75	0.56
<a href="#">GO:0048825</a>	<i>cotyledon development</i>	0.190 %	-1.1332	0.72	0.62
<a href="#">GO:0048364</a>	<i>root development</i>	1.886 %	-2.1593	0.69	0.51
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-1.7403	0.77	0.85
<a href="#">GO:0009791</a>	<i>post-embryonic development</i>	5.848 %	-1.5233	0.68	0.78
<a href="#">GO:0045596</a>	<i>negative regulation of cell differentiation</i>	0.052 %	-1.0031	0.70	0.61
<a href="#">GO:0051094</a>	<i>positive regulation of developmental process</i>	0.436 %	-1.3003	0.77	0.75
<a href="#">GO:0051093</a>	<i>negative regulation of developmental process</i>	0.492 %	-1.3344	0.77	0.76
<a href="#">GO:0040019</a>	<i>positive regulation of embryonic development</i>	0.009 %	-1.2808	0.76	0.60
<a href="#">GO:0002119</a>	<i>nematode larval development</i>	0.009 %	-1.5408	0.79	1.00
<a href="#">GO:0048731</a>	<i>system development</i>	7.225 %	-2.1516	0.67	0.82
<a href="#">GO:0009909</a>	<i>regulation of flower development</i>	0.609 %	-1.0747	0.66	0.84
<a href="#">GO:1901334</a>	<b>lactone metabolic process</b>	<b>0.026 %</b>	<b>-1.3754</b>	<b>0.94</b>	<b>0.12</b>
<a href="#">GO:0009606</a>	<b>tropism</b>	<b>0.341 %</b>	<b>-2.2500</b>	<b>0.93</b>	<b>0.14</b>
<a href="#">GO:0030104</a>	<b>water homeostasis</b>	<b>0.052 %</b>	<b>-2.0054</b>	<b>0.94</b>	<b>0.15</b>
<a href="#">GO:0080144</a>	<i>amino acid homeostasis</i>	0.060 %	-1.0835	0.93	0.53
<a href="#">GO:0030155</a>	<b>regulation of cell adhesion</b>	<b>0.009 %</b>	<b>-1.7756</b>	<b>0.94</b>	<b>0.16</b>
<a href="#">GO:0007155</a>	<i>cell adhesion</i>	0.060 %	-1.0154	0.98	0.88
<a href="#">GO:2000603</a>	<b>regulation of secondary growth</b>	<b>0.009 %</b>	<b>-2.4095</b>	<b>0.86</b>	<b>0.16</b>
<a href="#">GO:0045927</a>	<i>positive regulation of growth</i>	0.104 %	-1.9012	0.90	0.54
<a href="#">GO:2000605</a>	<i>positive regulation of secondary growth</i>	0.004 %	-2.4531	0.85	0.87
<a href="#">GO:0040008</a>	<i>regulation of growth</i>	1.148 %	-1.4825	0.90	0.63
<a href="#">GO:0080117</a>	<i>secondary growth</i>	0.022 %	-1.9968	0.87	0.95
<a href="#">GO:0010070</a>	<b>zygote asymmetric cell division</b>	<b>0.017 %</b>	<b>-1.5408</b>	<b>0.83</b>	<b>0.17</b>
<a href="#">GO:0051302</a>	<i>regulation of cell division</i>	0.199 %	-1.3063	0.78	0.55
<a href="#">GO:0010069</a>	<i>zygote asymmetric cytokinesis in embryo sac</i>	0.013 %	-1.5408	0.67	0.79
<a href="#">GO:0009629</a>	<b>response to gravity</b>	<b>0.311 %</b>	<b>-1.6291</b>	<b>0.95</b>	<b>0.17</b>

<a href="#">GO:0044763</a>	single-organism cellular process	23.034 %	-2.6241	0.81	0.19
<a href="#">GO:0009410</a>	response to xenobiotic stimulus	0.013 %	-1.0281	0.95	0.21
<a href="#">GO:2000377</a>	regulation of reactive oxygen species metabolic process	0.190 %	-1.6533	0.89	0.21
<a href="#">GO:0042127</a>	regulation of cell proliferation	0.293 %	-1.2672	0.84	0.22
<a href="#">GO:0007018</a>	microtubule-based movement	0.281 %	-1.4507	0.82	0.22
<a href="#">GO:0006928</a>	movement of cell or subcellular component	0.363 %	-1.3878	0.81	0.22
<a href="#">GO:0045176</a>	apical protein localization	0.004 %	-1.5408	0.97	0.22
<a href="#">GO:0009698</a>	phenylpropanoid metabolic process	0.505 %	-3.2651	0.75	0.23
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	1.183 %	-2.1711	0.77	0.80
<a href="#">GO:0009699</a>	<i>phenylpropanoid biosynthetic process</i>	0.337 %	-2.9244	0.74	0.70
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	0.285 %	-2.5307	0.76	0.91
<a href="#">GO:0009809</a>	<i>lignin biosynthetic process</i>	0.181 %	-1.9650	0.75	0.88
<a href="#">GO:0010345</a>	<i>suberin biosynthetic process</i>	0.060 %	-1.9396	0.77	0.80
<a href="#">GO:0046274</a>	<i>lignin catabolic process</i>	0.078 %	-1.9968	0.74	0.82
<a href="#">GO:0046271</a>	<i>phenylpropanoid catabolic process</i>	0.078 %	-1.9476	0.74	0.82
<a href="#">GO:0007017</a>	microtubule-based process	0.859 %	-1.9161	0.80	0.24
<a href="#">GO:1901606</a>	alpha-amino acid catabolic process	0.263 %	-1.7095	0.72	0.25
<a href="#">GO:0046395</a>	<i>carboxylic acid catabolic process</i>	0.514 %	-1.0671	0.71	0.94
<a href="#">GO:0009071</a>	<i>serine family amino acid catabolic process</i>	0.043 %	-1.1940	0.75	0.86
<a href="#">GO:0009065</a>	<i>glutamine family amino acid catabolic process</i>	0.043 %	-1.0480	0.75	0.86
<a href="#">GO:0009063</a>	<i>cellular amino acid catabolic process</i>	0.276 %	-1.4930	0.72	0.89
<a href="#">GO:0006546</a>	<i>glycine catabolic process</i>	0.030 %	-1.1940	0.76	0.84
<a href="#">GO:0006525</a>	<i>arginine metabolic process</i>	0.095 %	-1.0346	0.77	0.66
<a href="#">GO:0006527</a>	<i>arginine catabolic process</i>	0.022 %	-1.4236	0.76	0.87
<a href="#">GO:0019544</a>	<i>arginine catabolic process to glutamate</i>	0.009 %	-1.6422	0.77	0.77
<a href="#">GO:0007166</a>	cell surface receptor signaling pathway	1.204 %	-1.1064	0.78	0.25
<a href="#">GO:0080170</a>	hydrogen peroxide transmembrane transport	0.022 %	-1.1064	0.97	0.26
<a href="#">GO:0051301</a>	cell division	1.528 %	-3.0507	0.79	0.26
<a href="#">GO:0014070</a>	response to organic cyclic compound	1.606 %	-2.0258	0.93	0.29
<a href="#">GO:0009751</a>	<i>response to salicylic acid</i>	0.876 %	-1.4188	0.93	0.51
<a href="#">GO:0009741</a>	<i>response to brassinosteroid</i>	0.410 %	-1.3892	0.93	0.79
<a href="#">GO:0009743</a>	<i>response to carbohydrate</i>	0.518 %	-1.1020	0.94	0.51
<a href="#">GO:0009739</a>	<i>response to gibberellin</i>	0.626 %	-1.1051	0.93	0.58
<a href="#">GO:0007049</a>	cell cycle	2.525 %	-2.0016	0.78	0.29
<a href="#">GO:0009887</a>	animal organ morphogenesis	0.004 %	-1.7516	0.79	0.29
<a href="#">GO:2000027</a>	<i>regulation of organ morphogenesis</i>	0.004 %	-1.1308	0.75	1.00
<a href="#">GO:0048513</a>	animal organ development	0.004 %	-1.3841	0.81	0.29
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-2.1938	0.94	0.29
<a href="#">GO:0019748</a>	secondary metabolic process	1.938 %	-2.7707	0.81	0.30
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-1.2073	0.92	0.30
<a href="#">GO:0019438</a>	<i>aromatic compound biosynthetic process</i>	14.247 %	-1.0785	0.88	0.55
<a href="#">GO:0002164</a>	larval development	0.009 %	-1.5408	0.80	0.30
<a href="#">GO:0008105</a>	asymmetric protein localization	0.004 %	-1.5408	0.97	0.32
<a href="#">GO:0044347</a>	cell wall polysaccharide catabolic process	0.004 %	-1.6145	0.90	0.33
<a href="#">GO:0016998</a>	<i>cell wall macromolecule catabolic process</i>	0.112 %	-1.2244	0.89	0.59
<a href="#">GO:0051276</a>	chromosome organization	1.118 %	-4.2492	0.87	0.35
<a href="#">GO:0010229</a>	inflorescence development	0.104 %	-2.3560	0.75	0.37
<a href="#">GO:0080001</a>	mucilage extrusion from seed coat	0.022 %	-1.0413	0.77	0.38
<a href="#">GO:0006629</a>	lipid metabolic process	4.683 %	-1.9455	0.79	0.39
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.5901	0.83	0.40
<a href="#">GO:0080190</a>	lateral growth	0.022 %	-1.9968	0.88	0.40
<a href="#">GO:0090627</a>	plant epidermal cell differentiation	0.621 %	-1.5838	0.68	0.41
<a href="#">GO:0008610</a>	lipid biosynthetic process	2.464 %	-1.9056	0.74	0.41
<a href="#">GO:0044242</a>	<i>cellular lipid catabolic process</i>	0.315 %	-1.2097	0.70	0.62
<a href="#">GO:0044255</a>	<i>cellular lipid metabolic process</i>	3.224 %	-1.7305	0.70	0.82
<a href="#">GO:0016106</a>	<i>sesquiterpenoid biosynthetic process</i>	0.138 %	-1.3057	0.73	0.84
<a href="#">GO:0016114</a>	<i>terpenoid biosynthetic process</i>	0.591 %	-1.7586	0.70	0.66
<a href="#">GO:0016121</a>	<i>carotene catabolic process</i>	0.013 %	-1.6145	0.74	0.67
<a href="#">GO:0016119</a>	<i>carotene metabolic process</i>	0.026 %	-1.3322	0.76	0.85
<a href="#">GO:1901601</a>	<i>strigolactone biosynthetic process</i>	0.026 %	-1.3754	0.74	0.85
<a href="#">GO:1901600</a>	<i>strigolactone metabolic process</i>	0.026 %	-1.3754	0.75	1.00
<a href="#">GO:0006714</a>	<i>sesquiterpenoid metabolic process</i>	0.181 %	-1.2039	0.73	0.86
<a href="#">GO:0006720</a>	<i>isoprenoid metabolic process</i>	0.850 %	-1.3324	0.72	0.69
<a href="#">GO:0006721</a>	<i>terpenoid metabolic process</i>	0.699 %	-1.5429	0.71	0.94
<a href="#">GO:0000038</a>	<i>very long-chain fatty acid metabolic process</i>	0.065 %	-1.0548	0.76	0.60
<a href="#">GO:0008300</a>	<i>isoprenoid catabolic process</i>	0.052 %	-1.0761	0.72	0.76
<a href="#">GO:0008299</a>	<i>isoprenoid biosynthetic process</i>	0.738 %	-1.5101	0.69	0.96
<a href="#">GO:0006631</a>	<i>fatty acid metabolic process</i>	1.101 %	-1.1082	0.69	0.72
<a href="#">GO:0046247</a>	<i>terpene catabolic process</i>	0.013 %	-1.6145	0.74	0.84
<a href="#">GO:1901336</a>	<i>lactone biosynthetic process</i>	0.026 %	-1.3754	0.91	1.00
<a href="#">GO:0009395</a>	<i>phospholipid catabolic process</i>	0.052 %	-1.3322	0.73	0.70
<a href="#">GO:0042761</a>	<i>very long-chain fatty acid biosynthetic process</i>	0.056 %	-1.1308	0.74	0.52
<a href="#">GO:0009682</a>	induced systemic resistance	0.125 %	-1.6809	0.94	0.42

<a href="#">GO:0032973</a>	<b>amino acid export</b>	<b>0.082 %</b>	<b>-1.3322</b>	<b>0.87</b>	<b>0.42</b>
<a href="#">GO:0008272</a>	<i>sulfate transport</i>	0.078 %	-1.2244	0.87	0.58
<a href="#">GO:1905393</a>	<b>plant organ formation</b>	<b>0.427 %</b>	<b>-1.3324</b>	<b>0.80</b>	<b>0.42</b>
<a href="#">GO:0048646</a>	<i>anatomical structure formation involved in morphogenesis</i>	0.755 %	-1.1701	0.80	0.63
<a href="#">GO:0010338</a>	<i>leaf formation</i>	0.022 %	-1.0281	0.76	0.70
<a href="#">GO:0006884</a>	<b>cell volume homeostasis</b>	<b>0.009 %</b>	<b>-1.2244</b>	<b>0.78</b>	<b>0.42</b>
<a href="#">GO:0009992</a>	<i>cellular water homeostasis</i>	0.004 %	-1.2460	0.79	0.71
<a href="#">GO:0051211</a>	<b>anisotropic cell growth</b>	<b>0.017 %</b>	<b>-1.4236</b>	<b>0.83</b>	<b>0.42</b>
<a href="#">GO:0009958</a>	<b>positive gravitropism</b>	<b>0.142 %</b>	<b>-2.4082</b>	<b>0.93</b>	<b>0.42</b>
<a href="#">GO:0009630</a>	<i>gravitropism</i>	0.281 %	-1.6783	0.93	0.93
<a href="#">GO:0016099</a>	<b>monoterpenoid biosynthetic process</b>	<b>0.004 %</b>	<b>-1.4782</b>	<b>0.78</b>	<b>0.42</b>
<a href="#">GO:0072348</a>	<b>sulfur compound transport</b>	<b>0.147 %</b>	<b>-1.1567</b>	<b>0.86</b>	<b>0.44</b>
<a href="#">GO:0090558</a>	<b>plant epidermis development</b>	<b>1.001 %</b>	<b>-1.9214</b>	<b>0.79</b>	<b>0.44</b>
<a href="#">GO:0010068</a>	<i>protoderm histogenesis</i>	0.004 %	-1.6145	0.78	0.50
<a href="#">GO:0010082</a>	<i>regulation of root meristem growth</i>	0.086 %	-1.0618	0.67	0.75
<a href="#">GO:0010492</a>	<i>maintenance of shoot apical meristem identity</i>	0.056 %	-1.1478	0.77	0.61
<a href="#">GO:0010374</a>	<i>stomatal complex development</i>	0.220 %	-1.4225	0.73	0.69
<a href="#">GO:0009744</a>	<b>response to sucrose</b>	<b>0.237 %</b>	<b>-1.0244</b>	<b>0.94</b>	<b>0.44</b>
<a href="#">GO:0034285</a>	<i>response to disaccharide</i>	0.242 %	-1.0244	0.94	0.87
<a href="#">GO:0003002</a>	<b>regionalization</b>	<b>0.617 %</b>	<b>-1.9445</b>	<b>0.72</b>	<b>0.44</b>
<a href="#">GO:0090057</a>	<i>root radial pattern formation</i>	0.013 %	-1.9706	0.76	0.69
<a href="#">GO:0010222</a>	<i>stem vascular tissue pattern formation</i>	0.026 %	-1.6145	0.77	0.73
<a href="#">GO:0060774</a>	<i>auxin mediated signaling pathway involved in phyllotactic patterning</i>	0.009 %	-1.3909	0.72	0.78
<a href="#">GO:0060771</a>	<i>phyllotactic patterning</i>	0.017 %	-1.3322	0.77	0.81
<a href="#">GO:0060772</a>	<i>leaf phyllotactic patterning</i>	0.013 %	-1.3461	0.78	0.95
<a href="#">GO:0009798</a>	<i>axis specification</i>	0.194 %	-1.3916	0.74	0.86
<a href="#">GO:0009956</a>	<i>radial pattern formation</i>	0.078 %	-1.8790	0.76	0.79
<a href="#">GO:2000241</a>	<b>regulation of reproductive process</b>	<b>1.092 %</b>	<b>-1.0273</b>	<b>0.90</b>	<b>0.44</b>
<a href="#">GO:0042044</a>	<b>fluid transport</b>	<b>0.194 %</b>	<b>-1.7640</b>	<b>0.86</b>	<b>0.45</b>
<a href="#">GO:0007389</a>	<b>pattern specification process</b>	<b>0.742 %</b>	<b>-1.7163</b>	<b>0.74</b>	<b>0.45</b>
<a href="#">GO:0043933</a>	<b>macromolecular complex subunit organization</b>	<b>4.933 %</b>	<b>-2.4275</b>	<b>0.86</b>	<b>0.47</b>
<a href="#">GO:0016043</a>	<i>cellular component organization</i>	13.263 %	-1.5132	0.85	0.66
<a href="#">GO:0044085</a>	<i>cellular component biogenesis</i>	5.783 %	-1.2003	0.90	0.68
<a href="#">GO:0006996</a>	<i>organelle organization</i>	6.439 %	-1.4111	0.86	0.69
<a href="#">GO:0019853</a>	<b>L-ascorbic acid biosynthetic process</b>	<b>0.112 %</b>	<b>-1.2808</b>	<b>0.76</b>	<b>0.47</b>
<a href="#">GO:0019852</a>	<i>L-ascorbic acid metabolic process</i>	0.112 %	-1.2808	0.78	0.85
<a href="#">GO:0050793</a>	<b>regulation of developmental process</b>	<b>2.577 %</b>	<b>-2.2086</b>	<b>0.77</b>	<b>0.47</b>
<a href="#">GO:0048869</a>	<i>cellular developmental process</i>	4.148 %	-1.0051	0.64	0.53
<a href="#">GO:0060918</a>	<b>auxin transport</b>	<b>0.406 %</b>	<b>-1.5302</b>	<b>0.82</b>	<b>0.47</b>
<a href="#">GO:0044765</a>	<i>single-organism transport</i>	5.287 %	-1.6722	0.82	0.65
<a href="#">GO:0009914</a>	<i>hormone transport</i>	0.436 %	-1.5101	0.81	0.81
<a href="#">GO:0006334</a>	<b>nucleosome assembly</b>	<b>0.134 %</b>	<b>-7.3497</b>	<b>0.85</b>	<b>0.47</b>
<a href="#">GO:0006323</a>	<i>DNA packaging</i>	0.220 %	-6.6346	0.88	0.82
<a href="#">GO:0006333</a>	<i>chromatin assembly or disassembly</i>	0.207 %	-6.5284	0.87	0.63
<a href="#">GO:0065004</a>	<i>protein-DNA complex assembly</i>	0.393 %	-7.0566	0.86	0.91
<a href="#">GO:0034728</a>	<i>nucleosome organization</i>	0.173 %	-7.3497	0.87	0.84
<a href="#">GO:0031497</a>	<i>chromatin assembly</i>	0.164 %	-6.8281	0.85	0.95
<a href="#">GO:0061647</a>	<i>histone H3-K9 modification</i>	0.069 %	-1.0217	0.86	0.64
<a href="#">GO:0051567</a>	<i>histone H3-K9 methylation</i>	0.065 %	-1.0217	0.86	0.58
<a href="#">GO:0071103</a>	<i>DNA conformation change</i>	0.539 %	-5.6441	0.87	0.75
<a href="#">GO:0031669</a>	<b>cellular response to nutrient levels</b>	<b>0.557 %</b>	<b>-1.7338</b>	<b>0.87</b>	<b>0.47</b>
<a href="#">GO:0042594</a>	<i>response to starvation</i>	0.531 %	-1.2397	0.91	0.96
<a href="#">GO:0009991</a>	<i>response to extracellular stimulus</i>	0.777 %	-1.2475	0.93	0.53
<a href="#">GO:0009267</a>	<i>cellular response to starvation</i>	0.496 %	-1.2867	0.87	0.96
<a href="#">GO:0031668</a>	<i>cellular response to extracellular stimulus</i>	0.691 %	-1.4270	0.87	0.97
<a href="#">GO:0031667</a>	<i>response to nutrient levels</i>	0.639 %	-1.5069	0.91	0.94
<a href="#">GO:0071496</a>	<i>cellular response to external stimulus</i>	0.712 %	-1.3916	0.93	0.51
<a href="#">GO:0048281</a>	<b>inflorescence morphogenesis</b>	<b>0.013 %</b>	<b>-1.3461</b>	<b>0.77</b>	<b>0.48</b>
<a href="#">GO:0010358</a>	<i>leaf shaping</i>	0.035 %	-1.1749	0.76	0.58
<a href="#">GO:0044712</a>	<b>single-organism catabolic process</b>	<b>2.676 %</b>	<b>-1.4932</b>	<b>0.77</b>	<b>0.48</b>
<a href="#">GO:0044248</a>	<i>cellular catabolic process</i>	5.939 %	-1.4612	0.86	0.72
<a href="#">GO:0051239</a>	<b>regulation of multicellular organismal process</b>	<b>1.972 %</b>	<b>-2.4453</b>	<b>0.80</b>	<b>0.48</b>
<a href="#">GO:0009888</a>	<b>tissue development</b>	<b>2.326 %</b>	<b>-1.1853</b>	<b>0.80</b>	<b>0.49</b>
<a href="#">GO:0016098</a>	<b>monoterpenoid metabolic process</b>	<b>0.004 %</b>	<b>-1.4782</b>	<b>0.79</b>	<b>0.49</b>
<a href="#">GO:0070271</a>	<b>protein complex biogenesis</b>	<b>1.334 %</b>	<b>-3.3423</b>	<b>0.90</b>	<b>0.49</b>
<a href="#">GO:0009790</a>	<b>embryo development</b>	<b>1.683 %</b>	<b>-1.7161</b>	<b>0.72</b>	<b>0.50</b>



Biological Process (146) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 28

<a href="#">Hide/show dispensable GO terms</a>		<a href="#">Export results to text table (CSV)</a>			<a href="#">Make R script for plotting</a>	
term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009410</a>	response to xenobiotic stimulus	0.013 %		-2.6124	0.95	0.00
<a href="#">GO:0045892</a>	negative regulation of transcription, DNA-templated	0.958 %		-3.7253	0.54	0.00
<a href="#">GO:0048523</a>	negative regulation of cellular process	2.719 %		-1.7305	0.64	0.86
<a href="#">GO:0032774</a>	RNA biosynthetic process	11.813 %		-3.0186	0.66	0.83
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %		-2.9002	0.58	0.82
<a href="#">GO:0010468</a>	regulation of gene expression	12.706 %		-2.3894	0.56	0.80
<a href="#">GO:0031324</a>	negative regulation of cellular metabolic process	1.929 %		-2.6716	0.58	0.91
<a href="#">GO:0031323</a>	regulation of cellular metabolic process	13.906 %		-3.0536	0.56	0.80
<a href="#">GO:1902679</a>	negative regulation of RNA biosynthetic process	1.057 %		-3.7253	0.54	0.99
<a href="#">GO:0018130</a>	heterocycle biosynthetic process	14.014 %		-2.3652	0.72	0.58
<a href="#">GO:0031327</a>	negative regulation of cellular biosynthetic process	1.429 %		-3.1265	0.55	0.98
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %		-2.8256	0.51	0.56
<a href="#">GO:0051252</a>	regulation of RNA metabolic process	11.463 %		-2.6209	0.51	0.80
<a href="#">GO:2001141</a>	regulation of RNA biosynthetic process	11.282 %		-2.7173	0.49	0.88
<a href="#">GO:0019219</a>	regulation of nucleobase-containing compound metabolic process	11.700 %		-2.4887	0.52	0.85
<a href="#">GO:0051253</a>	negative regulation of RNA metabolic process	1.062 %		-3.7126	0.56	0.96
<a href="#">GO:0016070</a>	RNA metabolic process	17.562 %		-1.6564	0.72	0.67
<a href="#">GO:2000112</a>	regulation of cellular macromolecule biosynthetic process	12.003 %		-2.1964	0.50	0.87

<a href="#">GO:2000113</a>	<i>negative regulation of cellular macromolecule biosynthetic process</i>	1.256 %	-3.2583	0.54	0.94
<a href="#">GO:0045934</a>	<i>negative regulation of nucleobase-containing compound metabolic process</i>	1.139 %	-3.5370	0.56	0.92
<a href="#">GO:0010629</a>	<i>negative regulation of gene expression</i>	1.601 %	-2.8059	0.59	0.88
<a href="#">GO:0006355</a>	<i>regulation of transcription, DNA-templated</i>	11.234 %	-2.7173	0.49	0.87
<a href="#">GO:0044271</a>	<i>cellular nitrogen compound biosynthetic process</i>	17.018 %	-1.1429	0.71	0.61
<a href="#">GO:0006351</a>	<i>transcription, DNA-templated</i>	11.709 %	-3.0186	0.65	0.56
<a href="#">GO:0060255</a>	<i>regulation of macromolecule metabolic process</i>	14.091 %	-2.8725	0.57	0.83
<a href="#">GO:1903507</a>	<i>negative regulation of nucleic acid-templated transcription</i>	1.057 %	-3.7253	0.54	0.98
<a href="#">GO:1903506</a>	<i>regulation of nucleic acid-templated transcription</i>	11.282 %	-2.7173	0.49	0.89
<a href="#">GO:0097659</a>	<i>nucleic acid-templated transcription</i>	11.761 %	-3.0186	0.65	0.88
<a href="#">GO:1901576</a>	<i>organic substance biosynthetic process</i>	22.969 %	-1.1190	0.75	0.66
<a href="#">GO:0010605</a>	<i>negative regulation of macromolecule metabolic process</i>	2.171 %	-2.5536	0.58	0.94
<a href="#">GO:0009892</a>	<i>negative regulation of metabolic process</i>	2.352 %	-2.2909	0.60	0.76
<a href="#">GO:0009890</a>	<i>negative regulation of biosynthetic process</i>	1.450 %	-3.1008	0.56	0.82
<a href="#">GO:0009889</a>	<i>regulation of biosynthetic process</i>	12.408 %	-2.7300	0.54	0.80
<a href="#">GO:0019438</a>	<i>aromatic compound biosynthetic process</i>	14.247 %	-3.0498	0.72	0.56
<a href="#">GO:0010556</a>	<i>regulation of macromolecule biosynthetic process</i>	12.076 %	-2.1853	0.51	0.87
<a href="#">GO:1901362</a>	<i>organic cyclic compound biosynthetic process</i>	14.769 %	-2.7896	0.73	0.56
<a href="#">GO:0010558</a>	<i>negative regulation of macromolecule biosynthetic process</i>	1.355 %	-3.2583	0.55	0.96
<a href="#">GO:0034654</a>	<i>nucleobase-containing compound biosynthetic process</i>	13.056 %	-2.4450	0.67	0.81
<a href="#">GO:0051172</a>	<i>negative regulation of nitrogen compound metabolic process</i>	1.433 %	-3.1008	0.58	0.86
<a href="#">GO:0051171</a>	<i>regulation of nitrogen compound metabolic process</i>	12.430 %	-2.4711	0.56	0.80
<a href="#">GO:0048645</a>	<b>animal organ formation</b>	<b>0.004 %</b>	<b>-2.3225</b>	<b>0.74</b>	<b>0.00</b>
<a href="#">GO:2000027</a>	<i>regulation of organ morphogenesis</i>	0.004 %	-1.2581	0.64	1.15
<a href="#">GO:0048504</a>	<i>regulation of timing of animal organ formation</i>	0.004 %	-1.6708	0.63	1.00
<a href="#">GO:0010160</a>	<i>formation of animal organ boundary</i>	0.055 %	-1.2666	0.68	1.15
<a href="#">GO:0003156</a>	<i>regulation of animal organ formation</i>	0.004 %	-1.3634	0.63	1.00
<a href="#">GO:0009887</a>	<i>animal organ morphogenesis</i>	0.004 %	-2.0016	0.75	1.00
<a href="#">GO:0006863</a>	<b>purine nucleobase transport</b>	<b>0.095 %</b>	<b>-1.5202</b>	<b>0.90</b>	<b>0.06</b>
<a href="#">GO:0015851</a>	<i>nucleobase transport</i>	0.108 %	-1.5202	0.90	0.60
<a href="#">GO:0015977</a>	<b>carbon fixation</b>	<b>0.104 %</b>	<b>-1.3027</b>	<b>0.85</b>	<b>0.07</b>
<a href="#">GO:0009959</a>	<b>negative gravitropism</b>	<b>0.035 %</b>	<b>-1.5706</b>	<b>0.94</b>	<b>0.12</b>
<a href="#">GO:0009590</a>	<i>detection of gravity</i>	0.022 %	-1.4611	0.94	0.70
<a href="#">GO:0006884</a>	<b>cell volume homeostasis</b>	<b>0.009 %</b>	<b>-1.3526</b>	<b>0.80</b>	<b>0.13</b>
<a href="#">GO:0009992</a>	<i>cellular water homeostasis</i>	0.004 %	-1.3744	0.80	0.71
<a href="#">GO:0051338</a>	<b>regulation of transferase activity</b>	<b>0.522 %</b>	<b>-1.6489</b>	<b>0.78</b>	<b>0.18</b>
<a href="#">GO:0000079</a>	<i>regulation of cyclin-dependent protein serine/threonine kinase activity</i>	0.138 %	-1.0217	0.65	0.84
<a href="#">GO:0050790</a>	<i>regulation of catalytic activity</i>	2.257 %	-1.0184	0.75	0.80
<a href="#">GO:1904029</a>	<i>regulation of cyclin-dependent protein kinase activity</i>	0.138 %	-1.0217	0.64	0.84
<a href="#">GO:0051347</a>	<i>positive regulation of transferase activity</i>	0.281 %	-1.1289	0.78	0.67
<a href="#">GO:0010467</a>	<b>gene expression</b>	<b>18.304 %</b>	<b>-1.1070</b>	<b>0.85</b>	<b>0.19</b>
<a href="#">GO:0051262</a>	<b>protein tetramerization</b>	<b>0.056 %</b>	<b>-1.2103</b>	<b>0.94</b>	<b>0.21</b>
<a href="#">GO:0010031</a>	<b>circummutation</b>	<b>0.026 %</b>	<b>-1.5706</b>	<b>0.85</b>	<b>0.22</b>
<a href="#">GO:0008544</a>	<b>epidermis development</b>	<b>0.069 %</b>	<b>-1.9953</b>	<b>0.83</b>	<b>0.22</b>
<a href="#">GO:0010440</a>	<i>stomatal lineage progression</i>	0.069 %	-1.3526	0.72	0.50
<a href="#">GO:0050879</a>	<b>multicellular organismal movement</b>	<b>0.026 %</b>	<b>-1.5706</b>	<b>0.85</b>	<b>0.24</b>
<a href="#">GO:0048513</a>	<b>animal organ development</b>	<b>0.004 %</b>	<b>-1.6254</b>	<b>0.82</b>	<b>0.24</b>
<a href="#">GO:0080140</a>	<b>regulation of jasmonic acid metabolic process</b>	<b>0.017 %</b>	<b>-1.4094</b>	<b>0.69</b>	<b>0.26</b>
<a href="#">GO:0019217</a>	<i>regulation of fatty acid metabolic process</i>	0.069 %	-1.0560	0.66	0.75
<a href="#">GO:0042304</a>	<i>regulation of fatty acid biosynthetic process</i>	0.052 %	-1.2754	0.63	0.90
<a href="#">GO:0046890</a>	<i>regulation of lipid biosynthetic process</i>	0.194 %	-1.0264	0.61	0.88
<a href="#">GO:0080141</a>	<i>regulation of jasmonic acid biosynthetic process</i>	0.013 %	-1.4217	0.66	0.83
<a href="#">GO:1901183</a>	<b>positive regulation of camalexin biosynthetic process</b>	<b>0.009 %</b>	<b>-1.8342</b>	<b>0.61</b>	<b>0.26</b>
<a href="#">GO:0052317</a>	<i>camalexin metabolic process</i>	0.047 %	-1.0217	0.71	0.99
<a href="#">GO:0052318</a>	<i>regulation of phytoalexin metabolic process</i>	0.009 %	-1.8342	0.67	0.81
<a href="#">GO:0052319</a>	<i>regulation of phytoalexin biosynthetic process</i>	0.009 %	-1.8342	0.64	1.00
<a href="#">GO:0052320</a>	<i>positive regulation of phytoalexin metabolic process</i>	0.009 %	-1.8342	0.64	1.00
<a href="#">GO:0052322</a>	<i>positive regulation of phytoalexin biosynthetic process</i>	0.009 %	-1.8342	0.62	1.00
<a href="#">GO:0010120</a>	<i>camalexin biosynthetic process</i>	0.047 %	-1.0217	0.67	0.90
<a href="#">GO:1901182</a>	<i>regulation of camalexin biosynthetic process</i>	0.009 %	-1.8342	0.62	1.00
<a href="#">GO:1900378</a>	<i>positive regulation of secondary metabolite biosynthetic process</i>	0.017 %	-1.5531	0.64	0.79
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	1.183 %	-1.2437	0.71	0.56
<a href="#">GO:0051176</a>	<i>positive regulation of sulfur metabolic process</i>	0.035 %	-1.6488	0.70	0.81
<a href="#">GO:0009751</a>	<b>response to salicylic acid</b>	<b>0.876 %</b>	<b>-1.8455</b>	<b>0.92</b>	<b>0.27</b>
<a href="#">GO:0071229</a>	<i>cellular response to acid chemical</i>	2.158 %	-1.4086	0.87	0.66
<a href="#">GO:0071446</a>	<i>cellular response to salicylic acid stimulus</i>	0.242 %	-1.3063	0.88	0.79
<a href="#">GO:0009863</a>	<i>salicylic acid mediated signaling pathway</i>	0.211 %	-1.4043	0.70	0.75
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-1.0953	0.92	0.55
<a href="#">GO:0014070</a>	<i>response to organic cyclic compound</i>	1.606 %	-1.0154	0.93	0.51
<a href="#">GO:0010201</a>	<b>response to continuous far red light stimulus by the high-irradiance response system</b>	<b>0.009 %</b>	<b>-1.3219</b>	<b>0.95</b>	<b>0.27</b>

<a href="#">GO:2000904</a>	<b>regulation of starch metabolic process</b>	<b>0.043 %</b>	<b>-1.3857</b>	<b>0.73</b>	<b>0.28</b>
<a href="#">GO:0032881</a>	<i>regulation of polysaccharide metabolic process</i>	<i>0.078 %</i>	<i>-1.0771</i>	<i>0.73</i>	<i>0.83</i>
<a href="#">GO:0010036</a>	<b>response to boron-containing substance</b>	<b>0.022 %</b>	<b>-1.2666</b>	<b>0.95</b>	<b>0.28</b>
<a href="#">GO:2000278</a>	<b>regulation of DNA biosynthetic process</b>	<b>0.022 %</b>	<b>-1.8687</b>	<b>0.69</b>	<b>0.29</b>
<a href="#">GO:0051973</a>	<i>positive regulation of telomerase activity</i>	<i>0.009 %</i>	<i>-1.9063</i>	<i>0.66</i>	<i>0.92</i>
<a href="#">GO:2000573</a>	<i>positive regulation of DNA biosynthetic process</i>	<i>0.013 %</i>	<i>-1.9063</i>	<i>0.67</i>	<i>0.66</i>
<a href="#">GO:0071897</a>	<i>DNA biosynthetic process</i>	<i>0.315 %</i>	<i>-1.6079</i>	<i>0.76</i>	<i>0.50</i>
<a href="#">GO:0051972</a>	<i>regulation of telomerase activity</i>	<i>0.013 %</i>	<i>-1.9063</i>	<i>0.67</i>	<i>0.94</i>
<a href="#">GO:0051054</a>	<i>positive regulation of DNA metabolic process</i>	<i>0.086 %</i>	<i>-1.5531</i>	<i>0.65</i>	<i>0.72</i>
<a href="#">GO:0009553</a>	<b>embryo sac development</b>	<b>0.565 %</b>	<b>-1.7224</b>	<b>0.77</b>	<b>0.30</b>
<a href="#">GO:0080029</a>	<b>cellular response to boron-containing substance levels</b>	<b>0.017 %</b>	<b>-1.2666</b>	<b>0.90</b>	<b>0.31</b>
<a href="#">GO:0048457</a>	<b>floral whorl morphogenesis</b>	<b>0.004 %</b>	<b>-2.2472</b>	<b>0.77</b>	<b>0.32</b>
<a href="#">GO:0010223</a>	<i>secondary shoot formation</i>	<i>0.112 %</i>	<i>-2.2337</i>	<i>0.72</i>	<i>0.58</i>
<a href="#">GO:0010199</a>	<i>organ boundary specification between lateral organs and the meristem</i>	<i>0.039 %</i>	<i>-1.1168</i>	<i>0.76</i>	<i>0.96</i>
<a href="#">GO:0090691</a>	<i>formation of plant organ boundary</i>	<i>0.069 %</i>	<i>-1.0361</i>	<i>0.75</i>	<i>0.69</i>
<a href="#">GO:0010346</a>	<i>shoot axis formation</i>	<i>0.112 %</i>	<i>-2.2337</i>	<i>0.72</i>	<i>0.80</i>
<a href="#">GO:0006949</a>	<i>syncytium formation</i>	<i>0.043 %</i>	<i>-1.1813</i>	<i>0.73</i>	<i>0.67</i>
<a href="#">GO:0048439</a>	<i>flower morphogenesis</i>	<i>0.022 %</i>	<i>-1.8687</i>	<i>0.76</i>	<i>0.65</i>
<a href="#">GO:0019222</a>	<b>regulation of metabolic process</b>	<b>14.847 %</b>	<b>-2.9778</b>	<b>0.67</b>	<b>0.33</b>
<a href="#">GO:0050794</a>	<i>regulation of cellular process</i>	<i>22.244 %</i>	<i>-1.4795</i>	<i>0.65</i>	<i>0.63</i>
<a href="#">GO:0080006</a>	<b>internode patterning</b>	<b>0.009 %</b>	<b>-2.2472</b>	<b>0.79</b>	<b>0.33</b>
<a href="#">GO:0003002</a>	<i>regionalization</i>	<i>0.617 %</i>	<i>-1.1112</i>	<i>0.75</i>	<i>0.67</i>
<a href="#">GO:0010051</a>	<i>xylem and phloem pattern formation</i>	<i>0.259 %</i>	<i>-1.0074</i>	<i>0.76</i>	<i>0.88</i>
<a href="#">GO:0048638</a>	<b>regulation of developmental growth</b>	<b>0.466 %</b>	<b>-1.6798</b>	<b>0.61</b>	<b>0.35</b>
<a href="#">GO:0045682</a>	<i>regulation of epidermis development</i>	<i>0.017 %</i>	<i>-1.3421</i>	<i>0.69</i>	<i>0.84</i>
<a href="#">GO:0048589</a>	<i>developmental growth</i>	<i>1.623 %</i>	<i>-1.1811</i>	<i>0.75</i>	<i>0.83</i>
<a href="#">GO:0009826</a>	<i>unidimensional cell growth</i>	<i>1.010 %</i>	<i>-1.1492</i>	<i>0.64</i>	<i>0.81</i>
<a href="#">GO:0001558</a>	<i>regulation of cell growth</i>	<i>0.293 %</i>	<i>-1.1764</i>	<i>0.69</i>	<i>0.79</i>
<a href="#">GO:0045604</a>	<i>regulation of epidermal cell differentiation</i>	<i>0.017 %</i>	<i>-1.3421</i>	<i>0.64</i>	<i>0.51</i>
<a href="#">GO:0022603</a>	<i>regulation of anatomical structure morphogenesis</i>	<i>0.522 %</i>	<i>-1.6245</i>	<i>0.61</i>	<i>0.67</i>
<a href="#">GO:0022604</a>	<i>regulation of cell morphogenesis</i>	<i>0.341 %</i>	<i>-1.3710</i>	<i>0.56</i>	<i>0.65</i>
<a href="#">GO:0045595</a>	<i>regulation of cell differentiation</i>	<i>0.250 %</i>	<i>-1.1485</i>	<i>0.62</i>	<i>0.63</i>
<a href="#">GO:0051510</a>	<i>regulation of unidimensional cell growth</i>	<i>0.168 %</i>	<i>-1.4666</i>	<i>0.57</i>	<i>0.87</i>
<a href="#">GO:0040008</a>	<i>regulation of growth</i>	<i>1.148 %</i>	<i>-1.2236</i>	<i>0.73</i>	<i>0.73</i>
<a href="#">GO:0030856</a>	<i>regulation of epithelial cell differentiation</i>	<i>0.017 %</i>	<i>-1.3421</i>	<i>0.64</i>	<i>0.84</i>
<a href="#">GO:0034052</a>	<b>positive regulation of plant-type hypersensitive response</b>	<b>0.026 %</b>	<b>-1.5888</b>	<b>0.69</b>	<b>0.36</b>
<a href="#">GO:0010942</a>	<i>positive regulation of cell death</i>	<i>0.104 %</i>	<i>-1.0993</i>	<i>0.70</i>	<i>0.81</i>
<a href="#">GO:0010363</a>	<i>regulation of plant-type hypersensitive response</i>	<i>0.060 %</i>	<i>-1.1813</i>	<i>0.70</i>	<i>0.78</i>
<a href="#">GO:0047484</a>	<i>regulation of response to osmotic stress</i>	<i>0.121 %</i>	<i>-1.2497</i>	<i>0.77</i>	<i>0.57</i>
<a href="#">GO:0009627</a>	<i>systemic acquired resistance</i>	<i>0.281 %</i>	<i>-1.2726</i>	<i>0.93</i>	<i>0.60</i>
<a href="#">GO:0043068</a>	<i>positive regulation of programmed cell death</i>	<i>0.069 %</i>	<i>-1.2029</i>	<i>0.71</i>	<i>0.88</i>
<a href="#">GO:0048609</a>	<b>multicellular organismal reproductive process</b>	<b>0.587 %</b>	<b>-1.4291</b>	<b>0.83</b>	<b>0.37</b>
<a href="#">GO:0007292</a>	<i>female gamete generation</i>	<i>0.022 %</i>	<i>-1.3319</i>	<i>0.82</i>	<i>0.75</i>
<a href="#">GO:0009901</a>	<i>anther dehiscence</i>	<i>0.069 %</i>	<i>-1.0459</i>	<i>0.76</i>	<i>0.82</i>
<a href="#">GO:0007281</a>	<i>germ cell development</i>	<i>0.004 %</i>	<i>-1.5706</i>	<i>0.76</i>	<i>0.67</i>
<a href="#">GO:0048477</a>	<i>oogenesis</i>	<i>0.009 %</i>	<i>-1.5706</i>	<i>0.75</i>	<i>0.70</i>
<a href="#">GO:0001763</a>	<b>morphogenesis of a branching structure</b>	<b>0.125 %</b>	<b>-2.1613</b>	<b>0.75</b>	<b>0.39</b>
<a href="#">GO:0010016</a>	<i>shoot system morphogenesis</i>	<i>0.708 %</i>	<i>-1.1599</i>	<i>0.72</i>	<i>0.56</i>
<a href="#">GO:0010232</a>	<b>vascular transport</b>	<b>0.065 %</b>	<b>-1.0936</b>	<b>0.83</b>	<b>0.39</b>
<a href="#">GO:0010233</a>	<b>phloem transport</b>	<b>0.065 %</b>	<b>-1.0936</b>	<b>0.83</b>	<b>0.39</b>
<a href="#">GO:0016117</a>	<b>carotenoid biosynthetic process</b>	<b>0.147 %</b>	<b>-1.0264</b>	<b>0.73</b>	<b>0.44</b>
<a href="#">GO:0016109</a>	<i>tetraterpenoid biosynthetic process</i>	<i>0.147 %</i>	<i>-1.0264</i>	<i>0.73</i>	<i>0.97</i>
<a href="#">GO:0048869</a>	<b>cellular developmental process</b>	<b>4.148 %</b>	<b>-1.5154</b>	<b>0.71</b>	<b>0.44</b>
<a href="#">GO:0010076</a>	<b>maintenance of floral meristem identity</b>	<b>0.026 %</b>	<b>-1.6079</b>	<b>0.78</b>	<b>0.47</b>
<a href="#">GO:0010073</a>	<i>meristem maintenance</i>	<i>0.427 %</i>	<i>-1.0594</i>	<i>0.75</i>	<i>0.67</i>
<a href="#">GO:0010077</a>	<i>maintenance of inflorescence meristem identity</i>	<i>0.039 %</i>	<i>-1.4751</i>	<i>0.78</i>	<i>0.80</i>
<a href="#">GO:0010088</a>	<b>phloem development</b>	<b>0.026 %</b>	<b>-1.2843</b>	<b>0.84</b>	<b>0.47</b>
<a href="#">GO:0032504</a>	<b>multicellular organism reproduction</b>	<b>0.613 %</b>	<b>-1.3504</b>	<b>0.85</b>	<b>0.49</b>

## Biological Process (321) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 29

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0007049</a>	cell cycle	2.525 %		-11.7378	0.76	0.00
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %		-1.8048	0.99	0.00
<a href="#">GO:0032502</a>	developmental process	12.689 %		-2.4133	0.99	0.00
<a href="#">GO:0040007</a>	growth	2.529 %		-1.3654	0.99	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-2.1530	1.00	0.00
<a href="#">GO:0051338</a>	regulation of transferase activity	0.522 %		-7.1772	0.87	0.00
<i>GO:0050790</i>	<i>regulation of catalytic activity</i>	<i>2.257 %</i>		<i>-4.8258</i>	<i>0.85</i>	<i>0.80</i>
<a href="#">GO:0071840</a>	cellular component organization or biogenesis	14.454 %		-7.7753	0.99	0.00
<a href="#">GO:0010438</a>	cellular response to sulfur starvation	0.030 %		-3.8890	0.92	0.04
<a href="#">GO:0018958</a>	phenol-containing compound metabolic process	0.190 %		-2.2127	0.89	0.04
<i>GO:1901617</i>	<i>organic hydroxy compound biosynthetic process</i>	<i>0.824 %</i>		<i>-1.0092</i>	<i>0.92</i>	<i>0.78</i>
<i>GO:1901599</i>	<i>(-)-pinoresinol biosynthetic process</i>	<i>0.009 %</i>		<i>-1.7702</i>	<i>0.78</i>	<i>0.77</i>
<i>GO:1901598</i>	<i>(-)-pinoresinol metabolic process</i>	<i>0.009 %</i>		<i>-1.6918</i>	<i>0.78</i>	<i>0.90</i>
<i>GO:0010023</i>	<i>proanthocyanidin biosynthetic process</i>	<i>0.035 %</i>		<i>-1.1587</i>	<i>0.76</i>	<i>0.84</i>
<i>GO:0046189</i>	<i>phenol-containing compound biosynthetic process</i>	<i>0.104 %</i>		<i>-2.2127</i>	<i>0.89</i>	<i>0.66</i>
<i>GO:0009807</i>	<i>lignan biosynthetic process</i>	<i>0.022 %</i>		<i>-1.5683</i>	<i>0.77</i>	<i>0.95</i>
<a href="#">GO:0000280</a>	nuclear division	1.079 %		-6.5752	0.71	0.05

*interaction*

<a href="#">GO:0045185</a>	<i>maintenance of protein location</i>	0.078 %	-1.9161	0.86	0.67
<a href="#">GO:0009699</a>	<b>phenylpropanoid biosynthetic process</b>	<b>0.337 %</b>	<b>-1.9294</b>	<b>0.73</b>	<b>0.24</b>
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	1.183 %	-1.3633	0.82	0.80
<a href="#">GO:0009698</a>	<i>phenylpropanoid metabolic process</i>	0.505 %	-1.5756	0.74	0.70
<a href="#">GO:0009806</a>	<i>lignan metabolic process</i>	0.022 %	-1.5683	0.78	0.74
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	0.285 %	-1.5487	0.74	0.91
<a href="#">GO:0009809</a>	<i>lignin biosynthetic process</i>	0.181 %	-1.8395	0.74	0.88
<a href="#">GO:0046274</a>	<i>lignin catabolic process</i>	0.078 %	-1.9076	0.74	0.82
<a href="#">GO:0046271</a>	<i>phenylpropanoid catabolic process</i>	0.078 %	-1.8587	0.75	0.82
<a href="#">GO:0006928</a>	<b>movement of cell or subcellular component</b>	<b>0.363 %</b>	<b>-2.2544</b>	<b>0.80</b>	<b>0.24</b>
<a href="#">GO:0080088</a>	<b>spermidine hydroxycinnamate conjugate biosynthetic process</b>	<b>0.009 %</b>	<b>-1.5424</b>	<b>0.90</b>	<b>0.25</b>
<a href="#">GO:0007059</a>	<b>chromosome segregation</b>	<b>0.531 %</b>	<b>-2.7282</b>	<b>0.79</b>	<b>0.25</b>
<a href="#">GO:0048015</a>	<b>phosphatidylinositol-mediated signaling</b>	<b>0.022 %</b>	<b>-1.4729</b>	<b>0.82</b>	<b>0.25</b>
<a href="#">GO:0051726</a>	<b>regulation of cell cycle</b>	<b>0.811 %</b>	<b>-9.8497</b>	<b>0.58</b>	<b>0.27</b>
<a href="#">GO:0000281</a>	<i>mitotic cytokinesis</i>	0.311 %	-1.9037	0.62	0.95
<a href="#">GO:0000278</a>	<i>mitotic cell cycle</i>	1.152 %	-8.0968	0.62	0.80
<a href="#">GO:0001932</a>	<i>regulation of protein phosphorylation</i>	0.432 %	-7.2965	0.69	0.98
<a href="#">GO:0045859</a>	<i>regulation of protein kinase activity</i>	0.423 %	-7.6189	0.68	0.95
<a href="#">GO:0032268</a>	<i>regulation of cellular protein metabolic process</i>	1.921 %	-4.8724	0.70	0.85
<a href="#">GO:0042023</a>	<i>DNA endoreduplication</i>	0.160 %	-1.5402	0.61	0.64
<a href="#">GO:0098813</a>	<i>nuclear chromosome segregation</i>	0.436 %	-2.9080	0.61	0.92
<a href="#">GO:0006261</a>	<i>DNA-dependent DNA replication</i>	0.419 %	-1.3743	0.86	0.84
<a href="#">GO:0045839</a>	<i>negative regulation of mitotic nuclear division</i>	0.043 %	-3.5234	0.48	0.97
<a href="#">GO:0045841</a>	<i>negative regulation of mitotic metaphase/anaphase transition</i>	0.039 %	-3.5234	0.46	1.00
<a href="#">GO:0019220</a>	<i>regulation of phosphate metabolic process</i>	0.561 %	-6.1922	0.75	0.98
<a href="#">GO:0044772</a>	<i>mitotic cell cycle phase transition</i>	0.190 %	-6.8349	0.62	0.97
<a href="#">GO:0044770</a>	<i>cell cycle phase transition</i>	0.207 %	-6.8349	0.65	0.65
<a href="#">GO:0044784</a>	<i>metaphase/anaphase transition of cell cycle</i>	0.065 %	-3.1454	0.48	0.97
<a href="#">GO:0045930</a>	<i>negative regulation of mitotic cell cycle</i>	0.108 %	-2.8307	0.55	0.90
<a href="#">GO:0044786</a>	<i>cell cycle DNA replication</i>	0.181 %	-1.5350	0.61	0.86
<a href="#">GO:0071900</a>	<i>regulation of protein serine/threonine kinase activity</i>	0.242 %	-8.4448	0.70	0.86
<a href="#">GO:0044839</a>	<i>cell cycle G2/M phase transition</i>	0.091 %	-5.1369	0.64	0.91
<a href="#">GO:0007346</a>	<i>regulation of mitotic cell cycle</i>	0.306 %	-6.1022	0.57	0.86
<a href="#">GO:0071174</a>	<i>mitotic spindle checkpoint</i>	0.039 %	-3.5234	0.46	1.00
<a href="#">GO:0071173</a>	<i>spindle assembly checkpoint</i>	0.039 %	-3.5234	0.59	1.00
<a href="#">GO:0009556</a>	<i>microsporogenesis</i>	0.099 %	-3.0607	0.60	0.97
<a href="#">GO:0000819</a>	<i>sister chromatid segregation</i>	0.285 %	-3.5407	0.53	0.90
<a href="#">GO:0051306</a>	<i>mitotic sister chromatid separation</i>	0.065 %	-3.1454	0.55	0.86
<a href="#">GO:0051321</a>	<i>meiotic cell cycle</i>	0.716 %	-3.4756	0.63	0.74
<a href="#">GO:1902099</a>	<i>regulation of metaphase/anaphase transition of cell cycle</i>	0.065 %	-3.1454	0.47	1.00
<a href="#">GO:1902100</a>	<i>negative regulation of metaphase/anaphase transition of cell cycle</i>	0.039 %	-3.5234	0.47	0.89
<a href="#">GO:0010564</a>	<i>regulation of cell cycle process</i>	0.384 %	-6.4671	0.56	0.79
<a href="#">GO:0043549</a>	<i>regulation of kinase activity</i>	0.427 %	-7.4692	0.75	0.98
<a href="#">GO:2000816</a>	<i>negative regulation of mitotic sister chromatid separation</i>	0.039 %	-3.5234	0.46	1.00
<a href="#">GO:0000910</a>	<i>cytokinesis</i>	0.384 %	-1.7119	0.63	0.79
<a href="#">GO:0000911</a>	<i>cytokinesis by cell plate formation</i>	0.194 %	-2.6274	0.63	0.82
<a href="#">GO:0000912</a>	<i>assembly of actomyosin apparatus involved in cytokinesis</i>	0.009 %	-3.4120	0.65	0.66
<a href="#">GO:0000914</a>	<i>phragmoplast assembly</i>	0.009 %	-3.4120	0.64	0.51
<a href="#">GO:1902749</a>	<i>regulation of cell cycle G2/M phase transition</i>	0.082 %	-5.1369	0.58	0.98
<a href="#">GO:0031399</a>	<i>regulation of protein modification process</i>	0.699 %	-6.9827	0.72	0.67
<a href="#">GO:0030071</a>	<i>regulation of mitotic metaphase/anaphase transition</i>	0.065 %	-3.1454	0.47	0.97
<a href="#">GO:1901983</a>	<i>regulation of protein acetylation</i>	0.056 %	-1.2731	0.75	0.70
<a href="#">GO:1901987</a>	<i>regulation of cell cycle phase transition</i>	0.164 %	-7.6251	0.56	0.95
<a href="#">GO:1901988</a>	<i>negative regulation of cell cycle phase transition</i>	0.073 %	-3.3136	0.55	0.93
<a href="#">GO:1902407</a>	<i>assembly of actomyosin apparatus involved in mitotic cytokinesis</i>	0.009 %	-3.4120	0.64	1.00
<a href="#">GO:0010965</a>	<i>regulation of mitotic sister chromatid separation</i>	0.065 %	-3.1454	0.47	1.00
<a href="#">GO:0033047</a>	<i>regulation of mitotic sister chromatid segregation</i>	0.065 %	-3.1454	0.47	0.97
<a href="#">GO:0033048</a>	<i>negative regulation of mitotic sister chromatid segregation</i>	0.039 %	-3.5234	0.46	1.00
<a href="#">GO:0032506</a>	<i>cytokinetic process</i>	0.203 %	-2.5423	0.64	0.89
<a href="#">GO:0033045</a>	<i>regulation of sister chromatid segregation</i>	0.082 %	-3.0723	0.47	0.98
<a href="#">GO:0033046</a>	<i>negative regulation of sister chromatid segregation</i>	0.039 %	-3.5234	0.47	1.00
<a href="#">GO:1902410</a>	<i>mitotic cytokinetic process</i>	0.203 %	-2.5423	0.63	0.99
<a href="#">GO:1901990</a>	<i>regulation of mitotic cell cycle phase transition</i>	0.147 %	-7.6251	0.56	0.80
<a href="#">GO:1901991</a>	<i>negative regulation of mitotic cell cycle phase transition</i>	0.073 %	-3.3136	0.54	0.96
<a href="#">GO:0061640</a>	<i>cytoskeleton-dependent cytokinesis</i>	0.332 %	-1.7432	0.63	0.97
<a href="#">GO:0010948</a>	<i>negative regulation of cell cycle process</i>	0.117 %	-2.5083	0.55	0.91
<a href="#">GO:0007093</a>	<i>mitotic cell cycle checkpoint</i>	0.099 %	-3.0381	0.55	0.97
<a href="#">GO:0007094</a>	<i>mitotic spindle assembly checkpoint</i>	0.039 %	-3.5234	0.46	0.96

<a href="#">GO:0051445</a>	<i>regulation of meiotic cell cycle</i>	0.060 %	-3.5407	0.61	0.68
<a href="#">GO:0042325</a>	<i>regulation of phosphorylation</i>	0.462 %	-7.1482	0.76	0.95
<a href="#">GO:0000075</a>	<i>cell cycle checkpoint</i>	0.117 %	-4.1849	0.57	0.72
<a href="#">GO:0000070</a>	<i>mitotic sister chromatid segregation</i>	0.207 %	-4.1849	0.53	0.82
<a href="#">GO:0051985</a>	<i>negative regulation of chromosome segregation</i>	0.039 %	-3.5234	0.66	0.90
<a href="#">GO:0007091</a>	<i>metaphase/anaphase transition of mitotic cell cycle</i>	0.065 %	-3.1454	0.47	1.00
<a href="#">GO:0000079</a>	<i>regulation of cyclin-dependent protein serine/threonine kinase activity</i>	0.138 %	-9.7098	0.50	0.63
<a href="#">GO:0000077</a>	<i>DNA damage checkpoint</i>	0.043 %	-1.4322	0.58	0.89
<a href="#">GO:0007067</a>	<i>mitotic nuclear division</i>	0.699 %	-5.1786	0.52	0.93
<a href="#">GO:0031577</a>	<i>spindle checkpoint</i>	0.039 %	-3.5234	0.59	0.84
<a href="#">GO:0031570</a>	<i>DNA integrity checkpoint</i>	0.060 %	-1.3952	0.58	0.88
<a href="#">GO:0010389</a>	<i>regulation of G2/M transition of mitotic cell cycle</i>	0.078 %	-5.1369	0.58	0.94
<a href="#">GO:0000086</a>	<i>G2/M transition of mitotic cell cycle</i>	0.086 %	-5.1369	0.64	0.99
<a href="#">GO:1904029</a>	<i>regulation of cyclin-dependent protein kinase activity</i>	0.138 %	-9.7098	0.49	0.83
<a href="#">GO:1903047</a>	<i>mitotic cell cycle process</i>	1.083 %	-8.5082	0.59	0.77
<a href="#">GO:0022402</a>	<i>cell cycle process</i>	1.713 %	-6.8428	0.61	0.84
<a href="#">GO:0045786</a>	<i>negative regulation of cell cycle</i>	0.211 %	-2.1303	0.56	0.81
<a href="#">GO:0040020</a>	<i>regulation of meiotic nuclear division</i>	0.047 %	-2.3922	0.51	0.71
<a href="#">GO:0048236</a>	<i>plant-type sporogenesis</i>	0.147 %	-2.7820	0.59	0.70
<a href="#">GO:0007017</a>	<b>microtubule-based process</b>	<b>0.859 %</b>	<b>-2.4973</b>	<b>0.78</b>	<b>0.27</b>
<a href="#">GO:0008216</a>	<b>spermidine metabolic process</b>	<b>0.056 %</b>	<b>-2.5447</b>	<b>0.87</b>	<b>0.28</b>
<a href="#">GO:0044106</a>	<i>cellular amine metabolic process</i>	0.306 %	-1.3620	0.86	0.87
<a href="#">GO:0006576</a>	<i>cellular biogenic amine metabolic process</i>	0.255 %	-1.5248	0.86	0.94
<a href="#">GO:0008295</a>	<i>spermidine biosynthetic process</i>	0.039 %	-2.7798	0.87	0.91
<a href="#">GO:0006595</a>	<i>polyamine metabolic process</i>	0.095 %	-2.0975	0.87	0.82
<a href="#">GO:0006596</a>	<i>polyamine biosynthetic process</i>	0.065 %	-2.4906	0.86	0.94
<a href="#">GO:0009309</a>	<i>amine biosynthetic process</i>	0.186 %	-1.9599	0.86	0.76
<a href="#">GO:0042401</a>	<i>cellular biogenic amine biosynthetic process</i>	0.186 %	-1.9599	0.85	0.90
<a href="#">GO:0009445</a>	<i>putrescine metabolic process</i>	0.022 %	-1.5424	0.88	0.87
<a href="#">GO:0009446</a>	<i>putrescine biosynthetic process</i>	0.017 %	-1.5683	0.87	0.86
<a href="#">GO:0016049</a>	<b>cell growth</b>	<b>1.519 %</b>	<b>-2.1895</b>	<b>0.76</b>	<b>0.29</b>
<a href="#">GO:0042547</a>	<i>cell wall modification involved in multidimensional cell growth</i>	0.017 %	-1.1116	0.74	0.56
<a href="#">GO:0060560</a>	<i>developmental growth involved in morphogenesis</i>	1.157 %	-1.2934	0.80	0.83
<a href="#">GO:0051301</a>	<b>cell division</b>	<b>1.528 %</b>	<b>-5.9222</b>	<b>0.77</b>	<b>0.29</b>
<a href="#">GO:0051567</a>	<b>histone H3-K9 methylation</b>	<b>0.065 %</b>	<b>-2.2507</b>	<b>0.70</b>	<b>0.30</b>
<a href="#">GO:0034968</a>	<i>histone lysine methylation</i>	0.298 %	-1.8993	0.68	0.86
<a href="#">GO:0018205</a>	<i>peptidyl-lysine modification</i>	0.725 %	-1.2608	0.82	0.64
<a href="#">GO:1900111</a>	<i>positive regulation of histone H3-K9 dimethylation</i>	0.017 %	-1.3952	0.61	0.91
<a href="#">GO:1900109</a>	<i>regulation of histone H3-K9 dimethylation</i>	0.022 %	-1.3952	0.61	0.99
<a href="#">GO:0061647</a>	<i>histone H3-K9 modification</i>	0.069 %	-2.2507	0.73	0.64
<a href="#">GO:0051570</a>	<i>regulation of histone H3-K9 methylation</i>	0.039 %	-1.3004	0.60	0.96
<a href="#">GO:0016572</a>	<i>histone phosphorylation</i>	0.026 %	-1.9906	0.73	0.60
<a href="#">GO:0016571</a>	<i>histone methylation</i>	0.354 %	-1.5939	0.68	0.97
<a href="#">GO:0016570</a>	<i>histone modification</i>	0.893 %	-1.8395	0.68	0.89
<a href="#">GO:0016569</a>	<i>covalent chromatin modification</i>	1.273 %	-1.7397	0.68	0.69
<a href="#">GO:0018027</a>	<i>peptidyl-lysine dimethylation</i>	0.022 %	-1.3952	0.84	0.71
<a href="#">GO:0018022</a>	<i>peptidyl-lysine methylation</i>	0.350 %	-1.8828	0.81	0.93
<a href="#">GO:0051574</a>	<i>positive regulation of histone H3-K9 methylation</i>	0.022 %	-1.3451	0.60	0.92
<a href="#">GO:0006479</a>	<i>protein methylation</i>	0.475 %	-1.4757	0.81	0.97
<a href="#">GO:0036123</a>	<i>histone H3-K9 dimethylation</i>	0.022 %	-1.3952	0.72	1.00
<a href="#">GO:0010148</a>	<b>transpiration</b>	<b>0.026 %</b>	<b>-1.9510</b>	<b>0.89</b>	<b>0.30</b>
<a href="#">GO:0006833</a>	<i>water transport</i>	0.194 %	-1.6764	0.88	0.86
<a href="#">GO:0010185</a>	<b>regulation of cellular defense response</b>	<b>0.013 %</b>	<b>-3.1454</b>	<b>0.87</b>	<b>0.30</b>
<a href="#">GO:0051245</a>	<i>negative regulation of cellular defense response</i>	0.004 %	-3.1454	0.83	0.89
<a href="#">GO:0010623</a>	<i>programmed cell death involved in cell development</i>	0.035 %	-1.1898	0.75	0.66
<a href="#">GO:0009626</a>	<i>plant-type hypersensitive response</i>	0.341 %	-1.4570	0.75	0.86
<a href="#">GO:0060548</a>	<i>negative regulation of cell death</i>	0.112 %	-1.4079	0.68	0.82
<a href="#">GO:0043069</a>	<i>negative regulation of programmed cell death</i>	0.082 %	-1.6340	0.69	0.84
<a href="#">GO:0043067</a>	<i>regulation of programmed cell death</i>	0.216 %	-1.1945	0.73	0.90
<a href="#">GO:0012501</a>	<i>programmed cell death</i>	0.600 %	-1.2289	0.77	0.90
<a href="#">GO:0010363</a>	<i>regulation of plant-type hypersensitive response</i>	0.060 %	-2.3184	0.73	0.56
<a href="#">GO:0034050</a>	<i>host programmed cell death induced by symbiont</i>	0.345 %	-1.4079	0.77	0.90
<a href="#">GO:0080135</a>	<i>regulation of cellular response to stress</i>	0.250 %	-1.6340	0.81	0.63
<a href="#">GO:0007267</a>	<b>cell-cell signaling</b>	<b>0.371 %</b>	<b>-1.1206</b>	<b>0.79</b>	<b>0.31</b>
<a href="#">GO:1901698</a>	<b>response to nitrogen compound</b>	<b>1.174 %</b>	<b>-1.1322</b>	<b>0.97</b>	<b>0.31</b>
<a href="#">GO:0010430</a>	<b>fatty acid omega-oxidation</b>	<b>0.004 %</b>	<b>-1.7292</b>	<b>0.82</b>	<b>0.32</b>
<a href="#">GO:0046854</a>	<i>phosphatidylinositol phosphorylation</i>	0.160 %	-1.0035	0.76	0.64
<a href="#">GO:0046834</a>	<i>lipid phosphorylation</i>	0.173 %	-1.0035	0.76	0.83
<a href="#">GO:0048869</a>	<b>cellular developmental process</b>	<b>4.148 %</b>	<b>-3.8952</b>	<b>0.69</b>	<b>0.33</b>

<a href="#">GO:0044707</a>	single-multicellular organism process	10.699 %	-1.5566	0.84	0.86
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %	-1.0263	0.74	0.95
<a href="#">GO:0044767</a>	single-organism developmental process	12.123 %	-2.6465	0.79	0.68
<a href="#">GO:0010604</a>	positive regulation of macromolecule metabolic process	2.672 %	-1.0602	0.76	0.66
<a href="#">GO:0010054</a>	trichoblast differentiation	0.427 %	-1.1164	0.70	0.82
<a href="#">GO:0007275</a>	multicellular organism development	10.423 %	-1.6063	0.78	0.82
<a href="#">GO:0048468</a>	cell development	1.217 %	-1.7530	0.71	0.72
<a href="#">GO:0000902</a>	cell morphogenesis	1.467 %	-1.9165	0.59	0.78
<a href="#">GO:0000904</a>	cell morphogenesis involved in differentiation	0.880 %	-1.8073	0.61	0.91
<a href="#">GO:0009653</a>	anatomical structure morphogenesis	3.500 %	-2.0226	0.89	0.55
<a href="#">GO:0010015</a>	root morphogenesis	0.967 %	-1.2319	0.80	0.74
<a href="#">GO:0032989</a>	cellular component morphogenesis	1.618 %	-2.1867	0.59	0.51
<a href="#">GO:0010455</a>	positive regulation of cell fate commitment	0.013 %	-1.4520	0.73	0.72
<a href="#">GO:0010453</a>	regulation of cell fate commitment	0.047 %	-1.4133	0.72	0.52
<a href="#">GO:0060776</a>	simple leaf morphogenesis	0.022 %	-1.3004	0.85	0.51
<a href="#">GO:0030154</a>	cell differentiation	3.332 %	-1.6409	0.68	0.81
<a href="#">GO:0009826</a>	unidimensional cell growth	1.010 %	-1.5102	0.60	0.92
<a href="#">GO:0048856</a>	anatomical structure development	11.722 %	-2.4511	0.88	0.85
<a href="#">GO:0045597</a>	positive regulation of cell differentiation	0.030 %	-1.0696	0.71	0.76
<a href="#">GO:0048646</a>	anatomical structure formation involved in morphogenesis	0.755 %	-1.5462	0.89	0.72
<a href="#">GO:0048653</a>	anther development	0.224 %	-1.1033	0.83	0.53
<a href="#">GO:0051094</a>	positive regulation of developmental process	0.436 %	-1.1877	0.78	0.54
<a href="#">GO:0006949</a>	syncytium formation	0.043 %	-1.0103	0.77	0.54
<a href="#">GO:0048229</a>	gametophyte development	1.653 %	-2.6225	0.82	0.51
<a href="#">GO:0009932</a>	cell tip growth	0.630 %	-1.2053	0.61	0.87
<a href="#">GO:0051235</a>	<b>maintenance of location</b>	<b>0.302 %</b>	<b>-1.4570</b>	<b>0.87</b>	<b>0.33</b>
<a href="#">GO:0010256</a>	<b>endomembrane system organization</b>	<b>0.311 %</b>	<b>-1.1945</b>	<b>0.80</b>	<b>0.34</b>
<a href="#">GO:0030245</a>	<b>cellulose catabolic process</b>	<b>0.112 %</b>	<b>-2.3619</b>	<b>0.85</b>	<b>0.35</b>
<a href="#">GO:0000272</a>	polysaccharide catabolic process	0.777 %	-1.4899	0.88	0.75
<a href="#">GO:0051275</a>	beta-glucan catabolic process	0.112 %	-2.3619	0.85	0.89
<a href="#">GO:0051273</a>	beta-glucan metabolic process	0.393 %	-1.4348	0.86	0.75
<a href="#">GO:0044247</a>	cellular polysaccharide catabolic process	0.229 %	-1.6340	0.85	0.90
<a href="#">GO:0044275</a>	cellular carbohydrate catabolic process	0.298 %	-1.3305	0.86	0.82
<a href="#">GO:0044042</a>	glucan metabolic process	0.962 %	-1.2670	0.90	0.82
<a href="#">GO:0030243</a>	cellulose metabolic process	0.337 %	-1.7017	0.86	0.88
<a href="#">GO:0009251</a>	glucan catabolic process	0.229 %	-1.6340	0.89	0.80
<a href="#">GO:0006073</a>	cellular glucan metabolic process	0.937 %	-1.2670	0.85	0.90
<a href="#">GO:0005976</a>	polysaccharide metabolic process	1.899 %	-1.0007	0.90	0.54
<a href="#">GO:0051246</a>	<b>regulation of protein metabolic process</b>	<b>2.123 %</b>	<b>-4.5449</b>	<b>0.77</b>	<b>0.36</b>
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %	-2.1393	0.76	0.56
<a href="#">GO:0031323</a>	regulation of cellular metabolic process	13.906 %	-1.7392	0.72	0.83
<a href="#">GO:0019222</a>	regulation of metabolic process	14.847 %	-1.1733	0.79	0.63
<a href="#">GO:0050794</a>	regulation of cellular process	22.244 %	-1.6796	0.76	0.61
<a href="#">GO:0050789</a>	regulation of biological process	24.333 %	-1.4571	0.83	0.61
<a href="#">GO:0060255</a>	regulation of macromolecule metabolic process	14.091 %	-2.1186	0.74	0.82
<a href="#">GO:0042044</a>	<b>fluid transport</b>	<b>0.194 %</b>	<b>-1.6764</b>	<b>0.88</b>	<b>0.38</b>
<a href="#">GO:0042128</a>	<b>nitrate assimilation</b>	<b>0.181 %</b>	<b>-1.0539</b>	<b>0.77</b>	<b>0.39</b>
<a href="#">GO:0042126</a>	nitrate metabolic process	0.181 %	-1.0539	0.77	0.98
<a href="#">GO:0080175</a>	<b>phragmoplast microtubule organization</b>	<b>0.017 %</b>	<b>-3.2253</b>	<b>0.71</b>	<b>0.39</b>
<a href="#">GO:0007018</a>	microtubule-based movement	0.281 %	-2.3507	0.79	0.65
<a href="#">GO:0031109</a>	microtubule polymerization or depolymerization	0.108 %	-1.0943	0.68	0.75
<a href="#">GO:0046785</a>	microtubule polymerization	0.082 %	-1.2731	0.66	0.73
<a href="#">GO:0000226</a>	microtubule cytoskeleton organization	0.518 %	-1.6883	0.64	0.85
<a href="#">GO:0080167</a>	<b>response to karrikin</b>	<b>0.531 %</b>	<b>-2.4271</b>	<b>0.97</b>	<b>0.39</b>
<a href="#">GO:0048017</a>	inositol lipid-mediated signaling	0.022 %	-1.4729	0.82	0.40
<a href="#">GO:0051128</a>	<b>regulation of cellular component organization</b>	<b>1.467 %</b>	<b>-4.2033</b>	<b>0.70</b>	<b>0.40</b>
<a href="#">GO:1990778</a>	protein localization to cell periphery	0.022 %	-2.5447	0.96	0.41
<a href="#">GO:2001251</a>	<b>negative regulation of chromosome organization</b>	<b>0.043 %</b>	<b>-3.4659</b>	<b>0.62</b>	<b>0.42</b>
<a href="#">GO:0048523</a>	negative regulation of cellular process	2.719 %	-1.3969	0.73	0.56
<a href="#">GO:2000756</a>	regulation of peptidyl-lysine acetylation	0.056 %	-1.2731	0.73	1.00
<a href="#">GO:0010639</a>	negative regulation of organelle organization	0.138 %	-2.0160	0.61	0.87
<a href="#">GO:0051784</a>	negative regulation of nuclear division	0.052 %	-3.4120	0.62	0.86
<a href="#">GO:0030261</a>	chromosome condensation	0.052 %	-1.6918	0.77	0.58
<a href="#">GO:2000757</a>	negative regulation of peptidyl-lysine acetylation	0.039 %	-1.3297	0.68	1.00
<a href="#">GO:1901984</a>	negative regulation of protein acetylation	0.039 %	-1.3297	0.70	0.95
<a href="#">GO:0031060</a>	regulation of histone methylation	0.086 %	-1.2007	0.58	0.92
<a href="#">GO:0031057</a>	negative regulation of histone modification	0.047 %	-1.3297	0.57	0.95
<a href="#">GO:0031058</a>	positive regulation of histone modification	0.069 %	-1.3148	0.59	0.87
<a href="#">GO:0031056</a>	regulation of histone modification	0.134 %	-1.0315	0.58	0.88
<a href="#">GO:0033044</a>	regulation of chromosome organization	0.099 %	-2.9429	0.66	0.69



<a href="#">GO:0033043</a>	regulation of organelle organization	0.617 %	-2.9337	0.63	0.65
<a href="#">GO:0031062</a>	positive regulation of histone methylation	0.047 %	-1.3148	0.59	0.94
<a href="#">GO:0007088</a>	regulation of mitotic nuclear division	0.129 %	-3.1081	0.48	0.89
<a href="#">GO:1905269</a>	positive regulation of chromatin organization	0.086 %	-1.2353	0.65	0.81
<a href="#">GO:0001558</a>	regulation of cell growth	0.293 %	-1.5839	0.60	0.76
<a href="#">GO:0007076</a>	mitotic chromosome condensation	0.022 %	-1.6918	0.58	0.76
<a href="#">GO:1905268</a>	negative regulation of chromatin organization	0.065 %	-1.1029	0.62	0.88
<a href="#">GO:0035065</a>	regulation of histone acetylation	0.056 %	-1.2731	0.59	0.98
<a href="#">GO:0035067</a>	negative regulation of histone acetylation	0.039 %	-1.3297	0.56	0.79
<a href="#">GO:0051129</a>	negative regulation of cellular component organization	0.211 %	-2.7913	0.63	0.74
<a href="#">GO:0051258</a>	<b>protein polymerization</b>	<b>0.263 %</b>	<b>-1.2137</b>	<b>0.77</b>	<b>0.43</b>
<a href="#">GO:0006325</a>	chromatin organization	1.675 %	-1.0088	0.74	0.57
<a href="#">GO:0045229</a>	<b>external encapsulating structure organization</b>	<b>2.577 %</b>	<b>-2.6510</b>	<b>0.76</b>	<b>0.44</b>
<a href="#">GO:0016043</a>	cellular component organization	13.263 %	-7.4841	0.73	0.58
<a href="#">GO:0044085</a>	cellular component biogenesis	5.783 %	-1.0579	0.79	0.68
<a href="#">GO:0006996</a>	organelle organization	6.439 %	-3.0679	0.74	0.69
<a href="#">GO:0009938</a>	<b>negative regulation of gibberellic acid mediated signaling pathway</b>	<b>0.039 %</b>	<b>-1.1898</b>	<b>0.74</b>	<b>0.45</b>
<a href="#">GO:0031348</a>	negative regulation of defense response	0.203 %	-1.1882	0.79	0.70
<a href="#">GO:0009863</a>	salicylic acid mediated signaling pathway	0.211 %	-1.0897	0.78	0.54
<a href="#">GO:0009647</a>	<b>skotomorphogenesis</b>	<b>0.026 %</b>	<b>-1.1898</b>	<b>0.85</b>	<b>0.46</b>
<a href="#">GO:0010332</a>	response to gamma radiation	0.043 %	-3.9472	0.97	0.48
<a href="#">GO:0044248</a>	cellular catabolic process	5.939 %	-1.0619	0.86	0.48
<a href="#">GO:0009753</a>	response to jasmonic acid	0.919 %	-1.1488	0.97	0.48
<a href="#">GO:0009555</a>	<b>pollen development</b>	<b>1.230 %</b>	<b>-2.2393</b>	<b>0.82</b>	<b>0.49</b>
<a href="#">GO:0055046</a>	microgametogenesis	0.216 %	-1.3343	0.84	0.77

Biological Process (200) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 30

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009624</a>	response to nematode	0.306 %		-3.0170	0.93	0.00
<a href="#">GO:0046463</a>	acylglycerol biosynthetic process	0.117 %		-4.4648	0.69	0.00
<a href="#">GO:0046339</a>	diacylglycerol metabolic process	0.022 %		-1.5931	0.75	0.86
<a href="#">GO:0045017</a>	glycerolipid biosynthetic process	0.445 %		-3.1533	0.68	0.79
<a href="#">GO:0006651</a>	diacylglycerol biosynthetic process	0.017 %		-2.2877	0.73	0.88
<a href="#">GO:0046460</a>	neutral lipid biosynthetic process	0.117 %		-4.4648	0.70	0.96
<a href="#">GO:0019432</a>	triglyceride biosynthetic process	0.104 %		-2.8231	0.70	0.99
<a href="#">GO:0046486</a>	glycerolipid metabolic process	0.764 %		-2.1007	0.72	0.58
<a href="#">GO:0006639</a>	acylglycerol metabolic process	0.147 %		-3.7382	0.72	0.98
<a href="#">GO:0006638</a>	neutral lipid metabolic process	0.147 %		-3.7382	0.75	0.50
<a href="#">GO:0006641</a>	triglyceride metabolic process	0.129 %		-2.4627	0.72	0.99
<a href="#">GO:0080145</a>	cysteine homeostasis	0.004 %		-3.7097	0.86	0.00
<a href="#">GO:0055063</a>	sulfate ion homeostasis	0.009 %		-1.6889	0.86	0.74
<a href="#">GO:0050891</a>	multicellular organismal water homeostasis	0.013 %		-1.7464	0.79	0.55
<a href="#">GO:0042592</a>	homeostatic process	2.637 %		-1.3617	0.81	0.69
<a href="#">GO:0050801</a>	ion homeostasis	1.299 %		-1.2716	0.81	0.84
<a href="#">GO:0048878</a>	chemical homeostasis	1.765 %		-2.0096	0.81	0.50
<a href="#">GO:0048871</a>	multicellular organismal homeostasis	0.022 %		-1.7464	0.79	0.57
<a href="#">GO:0072505</a>	divalent inorganic anion homeostasis	0.086 %		-1.6889	0.83	0.86

<a href="#">GO:0010817</a>	<i>regulation of hormone levels</i>	1.109 %	-1.0878	0.82	0.62
<a href="#">GO:0080144</a>	<i>amino acid homeostasis</i>	0.060 %	-2.6158	0.84	0.71
<a href="#">GO:0009399</a>	<b>nitrogen fixation</b>	<b>0.017 %</b>	<b>-3.6049</b>	<b>0.92</b>	<b>0.03</b>
<a href="#">GO:0036369</a>	<b>transcription factor catabolic process</b>	<b>0.004 %</b>	<b>-1.8128</b>	<b>0.86</b>	<b>0.05</b>
<a href="#">GO:0048645</a>	<b>animal organ formation</b>	<b>0.004 %</b>	<b>-2.2130</b>	<b>0.86</b>	<b>0.06</b>
<a href="#">GO:0010160</a>	<i>formation of animal organ boundary</i>	0.055 %	-1.2119	0.84	1.15
<a href="#">GO:2000027</a>	<i>regulation of organ morphogenesis</i>	0.004 %	-1.2034	0.80	1.15
<a href="#">GO:0003156</a>	<i>regulation of animal organ formation</i>	0.004 %	-1.3083	0.80	1.00
<a href="#">GO:0009887</a>	<i>animal organ morphogenesis</i>	0.004 %	-1.8940	0.86	1.00
<a href="#">GO:0006949</a>	<i>syncytium formation</i>	0.043 %	-1.1270	0.80	0.54
<a href="#">GO:0015671</a>	<b>oxygen transport</b>	<b>0.009 %</b>	<b>-4.4633</b>	<b>0.91</b>	<b>0.06</b>
<a href="#">GO:0005975</a>	<b>carbohydrate metabolic process</b>	<b>4.670 %</b>	<b>-1.3846</b>	<b>0.92</b>	<b>0.08</b>
<a href="#">GO:0090322</a>	<b>regulation of superoxide metabolic process</b>	<b>0.017 %</b>	<b>-1.7167</b>	<b>0.82</b>	<b>0.10</b>
<a href="#">GO:0006801</a>	<i>superoxide metabolic process</i>	0.078 %	-1.2872	0.91	0.62
<a href="#">GO:0010310</a>	<i>regulation of hydrogen peroxide metabolic process</i>	0.056 %	-1.3306	0.81	0.77
<a href="#">GO:0071941</a>	<b>nitrogen cycle metabolic process</b>	<b>0.207 %</b>	<b>-2.3447</b>	<b>0.91</b>	<b>0.13</b>
<a href="#">GO:0007263</a>	<b>nitric oxide mediated signal transduction</b>	<b>0.009 %</b>	<b>-1.6151</b>	<b>0.81</b>	<b>0.13</b>
<a href="#">GO:0009643</a>	<b>photosynthetic acclimation</b>	<b>0.035 %</b>	<b>-1.4647</b>	<b>0.94</b>	<b>0.15</b>
<a href="#">GO:0009642</a>	<i>response to light intensity</i>	0.587 %	-1.2086	0.94	0.53
<a href="#">GO:0071484</a>	<i>cellular response to light intensity</i>	0.043 %	-1.2770	0.90	0.65
<a href="#">GO:0071486</a>	<i>cellular response to high light intensity</i>	0.026 %	-1.4343	0.91	0.63
<a href="#">GO:0009750</a>	<b>response to fructose</b>	<b>0.069 %</b>	<b>-1.8281</b>	<b>0.94</b>	<b>0.15</b>
<a href="#">GO:0009746</a>	<i>response to hexose</i>	0.220 %	-1.2364	0.94	0.90
<a href="#">GO:0034284</a>	<i>response to monosaccharide</i>	0.237 %	-1.1899	0.94	0.79
<a href="#">GO:0051983</a>	<b>regulation of chromosome segregation</b>	<b>0.082 %</b>	<b>-1.4976</b>	<b>0.67</b>	<b>0.16</b>
<a href="#">GO:0051304</a>	<i>chromosome separation</i>	0.147 %	-1.3083	0.66	0.76
<a href="#">GO:0065008</a>	<b>regulation of biological quality</b>	<b>5.991 %</b>	<b>-1.8986</b>	<b>0.85</b>	<b>0.18</b>
<a href="#">GO:0007067</a>	<b>mitotic nuclear division</b>	<b>0.699 %</b>	<b>-1.7836</b>	<b>0.61</b>	<b>0.19</b>
<a href="#">GO:0000280</a>	<i>nuclear division</i>	1.079 %	-1.0812	0.79	0.91
<a href="#">GO:0045839</a>	<i>negative regulation of mitotic nuclear division</i>	0.043 %	-1.7167	0.55	0.97
<a href="#">GO:0045841</a>	<i>negative regulation of mitotic metaphase/anaphase transition</i>	0.039 %	-1.7167	0.52	1.00
<a href="#">GO:0044772</a>	<i>mitotic cell cycle phase transition</i>	0.190 %	-1.0628	0.65	0.97
<a href="#">GO:0044770</a>	<i>cell cycle phase transition</i>	0.207 %	-1.0628	0.68	0.72
<a href="#">GO:0044784</a>	<i>metaphase/anaphase transition of cell cycle</i>	0.065 %	-1.5333	0.54	0.97
<a href="#">GO:0045930</a>	<i>negative regulation of mitotic cell cycle</i>	0.108 %	-1.3792	0.57	0.87
<a href="#">GO:0071174</a>	<i>mitotic spindle checkpoint</i>	0.039 %	-1.7167	0.52	1.00
<a href="#">GO:0071173</a>	<i>spindle assembly checkpoint</i>	0.039 %	-1.7167	0.60	1.00
<a href="#">GO:0000819</a>	<i>sister chromatid segregation</i>	0.285 %	-1.0397	0.61	0.90
<a href="#">GO:0051306</a>	<i>mitotic sister chromatid separation</i>	0.065 %	-1.5333	0.62	0.73
<a href="#">GO:0051783</a>	<i>regulation of nuclear division</i>	0.181 %	-1.0024	0.70	0.79
<a href="#">GO:1902099</a>	<i>regulation of metaphase/anaphase transition of cell cycle</i>	0.065 %	-1.5333	0.54	1.00
<a href="#">GO:1902100</a>	<i>negative regulation of metaphase/anaphase transition of cell cycle</i>	0.039 %	-1.7167	0.53	0.90
<a href="#">GO:2000816</a>	<i>negative regulation of mitotic sister chromatid separation</i>	0.039 %	-1.7167	0.53	1.00
<a href="#">GO:0030071</a>	<i>regulation of mitotic metaphase/anaphase transition</i>	0.065 %	-1.5333	0.53	0.97
<a href="#">GO:1901987</a>	<i>regulation of cell cycle phase transition</i>	0.164 %	-1.2119	0.58	0.95
<a href="#">GO:1901988</a>	<i>negative regulation of cell cycle phase transition</i>	0.073 %	-1.6151	0.57	0.82
<a href="#">GO:0010965</a>	<i>regulation of mitotic sister chromatid separation</i>	0.065 %	-1.5333	0.54	1.00
<a href="#">GO:0033047</a>	<i>regulation of mitotic sister chromatid segregation</i>	0.065 %	-1.5333	0.54	0.97
<a href="#">GO:0033048</a>	<i>negative regulation of mitotic sister chromatid segregation</i>	0.039 %	-1.7167	0.53	1.00
<a href="#">GO:0033045</a>	<i>regulation of sister chromatid segregation</i>	0.082 %	-1.4976	0.54	0.98
<a href="#">GO:0033046</a>	<i>negative regulation of sister chromatid segregation</i>	0.039 %	-1.7167	0.54	1.00
<a href="#">GO:1901990</a>	<i>regulation of mitotic cell cycle phase transition</i>	0.147 %	-1.2119	0.58	0.93
<a href="#">GO:1901991</a>	<i>negative regulation of mitotic cell cycle phase transition</i>	0.073 %	-1.6151	0.56	0.96
<a href="#">GO:0010948</a>	<i>negative regulation of cell cycle process</i>	0.117 %	-1.2206	0.57	0.91
<a href="#">GO:0007093</a>	<i>mitotic cell cycle checkpoint</i>	0.099 %	-1.4809	0.56	0.97
<a href="#">GO:0007094</a>	<i>mitotic spindle assembly checkpoint</i>	0.039 %	-1.7167	0.52	0.96
<a href="#">GO:0000075</a>	<i>cell cycle checkpoint</i>	0.117 %	-1.2478	0.58	0.90
<a href="#">GO:0000070</a>	<i>mitotic sister chromatid segregation</i>	0.207 %	-1.2478	0.61	0.86
<a href="#">GO:0051985</a>	<i>negative regulation of chromosome segregation</i>	0.039 %	-1.7167	0.62	0.90
<a href="#">GO:0007091</a>	<i>metaphase/anaphase transition of mitotic cell cycle</i>	0.065 %	-1.5333	0.53	1.00
<a href="#">GO:0031577</a>	<i>spindle checkpoint</i>	0.039 %	-1.7167	0.60	0.56
<a href="#">GO:0045786</a>	<i>negative regulation of cell cycle</i>	0.211 %	-1.0342	0.59	0.68
<a href="#">GO:0009920</a>	<i>cell plate formation involved in plant-type cell wall biogenesis</i>	0.030 %	-1.1001	0.68	0.69
<a href="#">GO:0008037</a>	<b>cell recognition</b>	<b>0.220 %</b>	<b>-1.0953</b>	<b>0.81</b>	<b>0.20</b>
<a href="#">GO:1990778</a>	<b>protein localization to cell periphery</b>	<b>0.022 %</b>	<b>-1.2386</b>	<b>0.97</b>	<b>0.21</b>
<a href="#">GO:0005984</a>	<b>disaccharide metabolic process</b>	<b>0.285 %</b>	<b>-3.2975</b>	<b>0.72</b>	<b>0.22</b>
<a href="#">GO:0046351</a>	<i>disaccharide biosynthetic process</i>	0.155 %	-1.6729	0.70	0.91
<a href="#">GO:0019310</a>	<i>inositol catabolic process</i>	0.017 %	-1.9878	0.66	0.54
<a href="#">GO:0010115</a>	<i>regulation of abscisic acid biosynthetic process</i>	0.030 %	-1.1201	0.61	0.63

<a href="#">GO:0044262</a>	cellular carbohydrate metabolic process	1.817 %	-1.2962	0.86	0.59
<a href="#">GO:0006020</a>	inositol metabolic process	0.069 %	-1.4198	0.69	0.75
<a href="#">GO:0046174</a>	polyol catabolic process	0.060 %	-1.0454	0.70	0.92
<a href="#">GO:0046164</a>	alcohol catabolic process	0.082 %	-1.0127	0.69	0.85
<a href="#">GO:0009311</a>	oligosaccharide metabolic process	0.466 %	-2.5053	0.76	0.66
<a href="#">GO:0009312</a>	oligosaccharide biosynthetic process	0.255 %	-1.4913	0.73	0.90
<a href="#">GO:0005991</a>	trehalose metabolic process	0.104 %	-2.1946	0.74	0.85
<a href="#">GO:0005992</a>	trehalose biosynthetic process	0.095 %	-2.2320	0.70	0.83
<a href="#">GO:0005985</a>	sucrose metabolic process	0.164 %	-1.7945	0.73	0.88
<a href="#">GO:0009605</a>	<b>response to external stimulus</b>	<b>6.366 %</b>	<b>-1.3248</b>	<b>0.95</b>	<b>0.23</b>
<a href="#">GO:0010188</a>	<b>response to microbial phytotoxin</b>	<b>0.026 %</b>	<b>-1.5151</b>	<b>0.96</b>	<b>0.23</b>
<a href="#">GO:0048513</a>	<b>animal organ development</b>	<b>0.004 %</b>	<b>-1.5212</b>	<b>0.90</b>	<b>0.24</b>
<a href="#">GO:0007009</a>	<b>plasma membrane organization</b>	<b>0.022 %</b>	<b>-1.2034</b>	<b>0.79</b>	<b>0.26</b>
<a href="#">GO:0090002</a>	establishment of protein localization to plasma membrane	0.013 %	-1.2386	0.78	1.00
<a href="#">GO:0072661</a>	protein targeting to plasma membrane	0.013 %	-1.2386	0.78	0.66
<a href="#">GO:0072659</a>	protein localization to plasma membrane	0.013 %	-1.2386	0.78	0.94
<a href="#">GO:0009856</a>	<b>pollination</b>	<b>1.075 %</b>	<b>-2.1096</b>	<b>0.92</b>	<b>0.26</b>
<a href="#">GO:0044706</a>	multi-multicellular organism process	1.075 %	-2.1096	0.93	0.72
<a href="#">GO:0044703</a>	multi-organism reproductive process	1.610 %	-1.6309	0.95	0.76
<a href="#">GO:0048544</a>	recognition of pollen	0.211 %	-1.0994	0.75	0.84
<a href="#">GO:0043901</a>	negative regulation of multi-organism process	0.393 %	-1.3542	0.76	0.65
<a href="#">GO:0009875</a>	pollen-pistil interaction	0.237 %	-1.0933	0.88	0.85
<a href="#">GO:0009846</a>	pollen germination	0.203 %	-1.2783	0.85	0.84
<a href="#">GO:1901605</a>	<b>alpha-amino acid metabolic process</b>	<b>1.329 %</b>	<b>-3.1566</b>	<b>0.58</b>	<b>0.27</b>
<a href="#">GO:0019279</a>	L-methionine biosynthetic process from L-homoserine via cystathionine	0.004 %	-2.1122	0.65	0.93
<a href="#">GO:0019281</a>	L-methionine biosynthetic process from homoserine via O-succinyl-L-homoserine and cystathionine	0.004 %	-2.1122	0.65	0.71
<a href="#">GO:0071265</a>	L-methionine biosynthetic process	0.052 %	-1.4343	0.61	0.85
<a href="#">GO:0071266</a>	'de novo' L-methionine biosynthetic process	0.009 %	-1.8503	0.64	0.78
<a href="#">GO:0019760</a>	glucosinolate metabolic process	0.514 %	-1.4086	0.60	0.59
<a href="#">GO:0016053</a>	organic acid biosynthetic process	2.296 %	-1.3179	0.60	0.73
<a href="#">GO:0019757</a>	glycosinolate metabolic process	0.514 %	-1.4086	0.60	0.99
<a href="#">GO:0009074</a>	aromatic amino acid family catabolic process	0.065 %	-1.7783	0.60	0.67
<a href="#">GO:0009070</a>	serine family amino acid biosynthetic process	0.177 %	-2.1416	0.60	0.91
<a href="#">GO:0009069</a>	serine family amino acid metabolic process	0.276 %	-2.6392	0.62	0.76
<a href="#">GO:0009066</a>	aspartate family amino acid metabolic process	0.293 %	-1.6729	0.62	0.77
<a href="#">GO:0009067</a>	aspartate family amino acid biosynthetic process	0.220 %	-1.9867	0.59	0.75
<a href="#">GO:0009064</a>	glutamine family amino acid metabolic process	0.367 %	-2.0969	0.61	0.79
<a href="#">GO:0009086</a>	methionine biosynthetic process	0.112 %	-1.0180	0.59	0.92
<a href="#">GO:0009092</a>	homoserine metabolic process	0.026 %	-2.1122	0.66	0.75
<a href="#">GO:1901607</a>	alpha-amino acid biosynthetic process	0.833 %	-3.3644	0.57	0.86
<a href="#">GO:0008652</a>	cellular amino acid biosynthetic process	0.915 %	-1.7280	0.58	0.87
<a href="#">GO:0019344</a>	cysteine biosynthetic process	0.104 %	-2.4016	0.60	0.93
<a href="#">GO:0006541</a>	glutamine metabolic process	0.168 %	-1.8755	0.63	0.73
<a href="#">GO:0070982</a>	L-asparagine metabolic process	0.013 %	-2.1122	0.66	0.88
<a href="#">GO:0070981</a>	L-asparagine biosynthetic process	0.013 %	-2.1122	0.65	0.77
<a href="#">GO:0006534</a>	cysteine metabolic process	0.134 %	-2.2612	0.61	0.84
<a href="#">GO:0006535</a>	cysteine biosynthetic process from serine	0.065 %	-2.8430	0.61	0.67
<a href="#">GO:0006529</a>	asparagine biosynthetic process	0.039 %	-1.7464	0.62	0.93
<a href="#">GO:0006528</a>	asparagine metabolic process	0.039 %	-1.6151	0.65	0.83
<a href="#">GO:0006520</a>	cellular amino acid metabolic process	1.869 %	-2.2486	0.61	0.72
<a href="#">GO:0006572</a>	tyrosine catabolic process	0.022 %	-1.8128	0.62	0.74
<a href="#">GO:0006570</a>	tyrosine metabolic process	0.047 %	-1.2295	0.65	0.77
<a href="#">GO:0006563</a>	L-serine metabolic process	0.129 %	-2.1416	0.62	0.89
<a href="#">GO:0006561</a>	proline biosynthetic process	0.043 %	-1.0233	0.64	0.79
<a href="#">GO:0044283</a>	small molecule biosynthetic process	2.827 %	-1.5191	0.69	0.62
<a href="#">GO:0050878</a>	<b>regulation of body fluid levels</b>	<b>0.013 %</b>	<b>-1.6151</b>	<b>0.87</b>	<b>0.28</b>
<a href="#">GO:0015669</a>	<b>gas transport</b>	<b>0.009 %</b>	<b>-3.6557</b>	<b>0.91</b>	<b>0.30</b>
<a href="#">GO:0010222</a>	<b>stem vascular tissue pattern formation</b>	<b>0.026 %</b>	<b>-1.6889</b>	<b>0.88</b>	<b>0.30</b>
<a href="#">GO:0009270</a>	<b>response to humidity</b>	<b>0.009 %</b>	<b>-1.6629</b>	<b>0.95</b>	<b>0.31</b>
<a href="#">GO:0033528</a>	<b>S-methylmethionine cycle</b>	<b>0.004 %</b>	<b>-1.9369</b>	<b>0.82</b>	<b>0.31</b>
<a href="#">GO:0033477</a>	S-methylmethionine metabolic process	0.004 %	-1.9369	0.82	0.58
<a href="#">GO:0006749</a>	glutathione metabolic process	0.069 %	-1.0454	0.79	0.67
<a href="#">GO:0010037</a>	<b>response to carbon dioxide</b>	<b>0.030 %</b>	<b>-1.4492</b>	<b>0.95</b>	<b>0.33</b>
<a href="#">GO:0001560</a>	<b>regulation of cell growth by extracellular stimulus</b>	<b>0.009 %</b>	<b>-1.9878</b>	<b>0.68</b>	<b>0.34</b>
<a href="#">GO:0043617</a>	cellular response to sucrose starvation	0.017 %	-1.6151	0.90	0.72
<a href="#">GO:0031668</a>	cellular response to extracellular stimulus	0.691 %	-1.6671	0.87	0.69
<a href="#">GO:0006032</a>	<b>chitin catabolic process</b>	<b>0.073 %</b>	<b>-1.3542</b>	<b>0.74</b>	<b>0.39</b>
<a href="#">GO:0046348</a>	amino sugar catabolic process	0.073 %	-1.3542	0.83	0.91
<a href="#">GO:1901071</a>	glucosamine-containing compound metabolic process	0.078 %	-1.3083	0.89	0.91
<a href="#">GO:1901072</a>	glucosamine-containing compound catabolic process	0.073 %	-1.3542	0.83	1.00

<a href="#">GO:0006030</a>	<i>chitin metabolic process</i>	0.073 %	-1.3423	0.79	0.99
<a href="#">GO:0006026</a>	<i>aminoglycan catabolic process</i>	0.073 %	-1.3542	0.75	0.98
<a href="#">GO:0009691</a>	<b>cytokinin biosynthetic process</b>	<b>0.091 %</b>	<b>-2.9274</b>	<b>0.69</b>	<b>0.40</b>
<a href="#">GO:0009690</a>	<i>cytokinin metabolic process</i>	0.168 %	-2.0760	0.69	0.88
<a href="#">GO:0010541</a>	<i>acropetal auxin transport</i>	0.013 %	-1.0810	0.80	0.56
<a href="#">GO:0034754</a>	<i>cellular hormone metabolic process</i>	0.263 %	-2.0375	0.78	0.76
<a href="#">GO:0042445</a>	<i>hormone metabolic process</i>	0.695 %	-1.1354	0.79	0.82
<a href="#">GO:0042446</a>	<i>hormone biosynthetic process</i>	0.514 %	-1.8111	0.76	0.88
<a href="#">GO:0044711</a>	<b>single-organism biosynthetic process</b>	<b>7.549 %</b>	<b>-1.4638</b>	<b>0.75</b>	<b>0.40</b>
<a href="#">GO:0010189</a>	<b>vitamin E biosynthetic process</b>	<b>0.043 %</b>	<b>-1.6151</b>	<b>0.68</b>	<b>0.40</b>
<a href="#">GO:0006775</a>	<i>fat-soluble vitamin metabolic process</i>	0.047 %	-1.6151	0.77	0.73
<a href="#">GO:0042362</a>	<i>fat-soluble vitamin biosynthetic process</i>	0.047 %	-1.6151	0.69	0.99
<a href="#">GO:0042360</a>	<i>vitamin E metabolic process</i>	0.043 %	-1.6151	0.71	0.99
<a href="#">GO:1900425</a>	<b>negative regulation of defense response to bacterium</b>	<b>0.043 %</b>	<b>-1.7464</b>	<b>0.77</b>	<b>0.42</b>
<a href="#">GO:0031348</a>	<i>negative regulation of defense response</i>	0.203 %	-1.4053	0.77	0.71
<a href="#">GO:0002832</a>	<i>negative regulation of response to biotic stimulus</i>	0.065 %	-1.3542	0.78	0.77
<a href="#">GO:1900424</a>	<i>regulation of defense response to bacterium</i>	0.129 %	-1.1951	0.82	0.83
<a href="#">GO:0032102</a>	<i>negative regulation of response to external stimulus</i>	0.065 %	-1.3542	0.77	0.76
<a href="#">GO:0032436</a>	<b>positive regulation of proteasomal ubiquitin-dependent protein catabolic process</b>	<b>0.207 %</b>	<b>-1.8128</b>	<b>0.70</b>	<b>0.46</b>
<a href="#">GO:0045862</a>	<i>positive regulation of proteolysis</i>	0.272 %	-1.8128	0.74	0.84
<a href="#">GO:0031331</a>	<i>positive regulation of cellular catabolic process</i>	0.289 %	-1.8128	0.70	0.98
<a href="#">GO:1901800</a>	<i>positive regulation of proteasomal protein catabolic process</i>	0.259 %	-1.8128	0.69	0.98
<a href="#">GO:0032434</a>	<i>regulation of proteasomal ubiquitin-dependent protein catabolic process</i>	0.211 %	-1.8128	0.70	0.96
<a href="#">GO:0061136</a>	<i>regulation of proteasomal protein catabolic process</i>	0.268 %	-1.8128	0.69	0.99
<a href="#">GO:1903364</a>	<i>positive regulation of cellular protein catabolic process</i>	0.263 %	-1.8128	0.69	0.99
<a href="#">GO:1903362</a>	<i>regulation of cellular protein catabolic process</i>	0.272 %	-1.8128	0.70	0.95
<a href="#">GO:1901485</a>	<i>positive regulation of transcription factor catabolic process</i>	0.004 %	-1.8128	0.75	0.76
<a href="#">GO:1901483</a>	<i>regulation of transcription factor catabolic process</i>	0.004 %	-1.8128	0.75	1.00
<a href="#">GO:0030162</a>	<i>regulation of proteolysis</i>	0.591 %	-1.2976	0.76	0.67
<a href="#">GO:0009896</a>	<i>positive regulation of catabolic process</i>	0.302 %	-1.1412	0.73	0.91
<a href="#">GO:1903052</a>	<i>positive regulation of proteolysis involved in cellular protein catabolic process</i>	0.263 %	-1.8128	0.69	1.00
<a href="#">GO:1903050</a>	<i>regulation of proteolysis involved in cellular protein catabolic process</i>	0.272 %	-1.8128	0.69	1.00
<a href="#">GO:0045732</a>	<i>positive regulation of protein catabolic process</i>	0.276 %	-1.1412	0.71	0.99
<a href="#">GO:0006022</a>	<b>aminoglycan metabolic process</b>	<b>0.086 %</b>	<b>-1.2872</b>	<b>0.81</b>	<b>0.46</b>
<a href="#">GO:0009308</a>	<b>amine metabolic process</b>	<b>0.522 %</b>	<b>-1.1268</b>	<b>0.82</b>	<b>0.47</b>
<a href="#">GO:0006040</a>	<b>amino sugar metabolic process</b>	<b>0.138 %</b>	<b>-1.1559</b>	<b>0.90</b>	<b>0.48</b>
<a href="#">GO:0071496</a>	<b>cellular response to external stimulus</b>	<b>0.712 %</b>	<b>-1.6299</b>	<b>0.93</b>	<b>0.48</b>
<a href="#">GO:0009991</a>	<i>response to extracellular stimulus</i>	0.777 %	-1.4782	0.93	0.53
<a href="#">GO:2001251</a>	<b>negative regulation of chromosome organization</b>	<b>0.043 %</b>	<b>-1.6889</b>	<b>0.66</b>	<b>0.49</b>
<a href="#">GO:0051784</a>	<i>negative regulation of nuclear division</i>	0.052 %	-1.6629	0.67	0.86
<a href="#">GO:0033044</a>	<i>regulation of chromosome organization</i>	0.099 %	-1.4343	0.72	0.69
<a href="#">GO:0007088</a>	<i>regulation of mitotic nuclear division</i>	0.129 %	-1.5151	0.55	0.89

Biological Process (223) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 31

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0019748</a>	secondary metabolic process	1.938 %		-5.1206	0.77	0.00
<a href="#">GO:0034755</a>	iron ion transmembrane transport	0.073 %		-2.1320	0.96	0.00
<a href="#">GO:0006826</a>	<i>iron ion transport</i>	0.121 %		-1.0214	0.96	0.81
<a href="#">GO:0006828</a>	<i>manganese ion transport</i>	0.082 %		-1.0702	0.96	0.78
<a href="#">GO:0010163</a>	<i>high-affinity potassium ion import</i>	0.013 %		-1.6954	0.84	0.53
<a href="#">GO:0034220</a>	<i>ion transmembrane transport</i>	2.529 %		-1.0782	0.96	0.56
<a href="#">GO:0042391</a>	regulation of membrane potential	0.138 %		-1.6580	0.94	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-2.7187	0.99	0.00
<a href="#">GO:0050896</a>	response to stimulus	25.943 %		-2.3628	0.99	0.00
<a href="#">GO:0051704</a>	multi-organism process	3.362 %		-1.4037	0.99	0.00
<a href="#">GO:0080167</a>	response to karrikin	0.531 %		-4.4662	0.87	0.00
<a href="#">GO:0009821</a>	alkaloid biosynthetic process	0.795 %		-2.6883	0.87	0.06
<a href="#">GO:0018027</a>	peptidyl-lysine dimethylation	0.022 %		-1.3618	0.87	0.06
<a href="#">GO:0048513</a>	animal organ development	0.004 %		-2.1546	0.86	0.07
<a href="#">GO:0009056</a>	catabolic process	8.118 %		-2.3805	0.94	0.08
<a href="#">GO:0019439</a>	aromatic compound catabolic process	0.898 %		-2.6541	0.82	0.09
<a href="#">GO:0044712</a>	<i>single-organism catabolic process</i>	2.676 %		-2.6265	0.72	0.55

<a href="#">GO:1901575</a>	<i>organic substance catabolic process</i>	7.402 %	-1.6808	0.84	0.74
<a href="#">GO:1901361</a>	<i>organic cyclic compound catabolic process</i>	0.937 %	-2.4733	0.83	0.56
<a href="#">GO:2000379</a>	<b>positive regulation of reactive oxygen species metabolic process</b>	<b>0.047 %</b>	<b>-1.4186</b>	<b>0.87</b>	<b>0.13</b>
<a href="#">GO:0010529</a>	<b>negative regulation of transposition</b>	<b>0.009 %</b>	<b>-1.2672</b>	<b>0.81</b>	<b>0.14</b>
<a href="#">GO:0010528</a>	<i>regulation of transposition</i>	0.009 %	-1.2672	0.83	0.96
<a href="#">GO:0030198</a>	<b>extracellular matrix organization</b>	<b>0.233 %</b>	<b>-1.0843</b>	<b>0.80</b>	<b>0.15</b>
<a href="#">GO:0010215</a>	<i>cellulose microfibril organization</i>	0.073 %	-1.1160	0.81	0.91
<a href="#">GO:0032196</a>	<b>transposition</b>	<b>0.013 %</b>	<b>-1.0291</b>	<b>0.86</b>	<b>0.15</b>
<a href="#">GO:0030522</a>	<b>intracellular receptor signaling pathway</b>	<b>0.078 %</b>	<b>-1.9413</b>	<b>0.79</b>	<b>0.16</b>
<a href="#">GO:0009624</a>	<b>response to nematode</b>	<b>0.306 %</b>	<b>-1.6339</b>	<b>0.90</b>	<b>0.18</b>
<a href="#">GO:0043207</a>	<i>response to external biotic stimulus</i>	4.981 %	-1.1886	0.87	0.94
<a href="#">GO:0051707</a>	<i>response to other organism</i>	4.968 %	-1.1886	0.87	0.65
<a href="#">GO:0044763</a>	<b>single-organism cellular process</b>	<b>23.034 %</b>	<b>-1.5945</b>	<b>0.84</b>	<b>0.19</b>
<a href="#">GO:0009947</a>	<b>centrolateral axis specification</b>	<b>0.004 %</b>	<b>-1.8325</b>	<b>0.86</b>	<b>0.22</b>
<a href="#">GO:0003002</a>	<i>regionalization</i>	0.617 %	-1.6276	0.81	0.64
<a href="#">GO:0097353</a>	<i>centrolateral pattern formation</i>	0.004 %	-1.8325	0.86	0.50
<a href="#">GO:0009955</a>	<i>adaxial/abaxial pattern specification</i>	0.151 %	-1.4933	0.83	0.84
<a href="#">GO:0090691</a>	<b>formation of plant organ boundary</b>	<b>0.069 %</b>	<b>-1.9605</b>	<b>0.83</b>	<b>0.22</b>
<a href="#">GO:0090451</a>	<i>cotyledon boundary formation</i>	0.009 %	-1.6954	0.85	0.87
<a href="#">GO:0010016</a>	<i>shoot system morphogenesis</i>	0.708 %	-1.1577	0.80	0.53
<a href="#">GO:0048859</a>	<i>formation of anatomical boundary</i>	0.069 %	-1.6255	0.84	0.67
<a href="#">GO:1990267</a>	<b>response to transition metal nanoparticle</b>	<b>2.017 %</b>	<b>-2.2570</b>	<b>0.87</b>	<b>0.22</b>
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	6.504 %	-1.6834	0.86	0.61
<a href="#">GO:0010035</a>	<i>response to inorganic substance</i>	3.699 %	-1.1254	0.86	0.51
<a href="#">GO:0001101</a>	<i>response to acid chemical</i>	5.011 %	-1.0972	0.86	0.64
<a href="#">GO:0043693</a>	<b>monoterpene biosynthetic process</b>	<b>0.017 %</b>	<b>-1.6237</b>	<b>0.73</b>	<b>0.22</b>
<a href="#">GO:0051762</a>	<i>sesquiterpene biosynthetic process</i>	0.009 %	-1.4394	0.74	0.86
<a href="#">GO:0051761</a>	<i>sesquiterpene metabolic process</i>	0.009 %	-1.4394	0.75	0.81
<a href="#">GO:0010686</a>	<i>tetracyclic triterpenoid biosynthetic process</i>	0.004 %	-1.2400	0.74	0.52
<a href="#">GO:0010685</a>	<i>tetracyclic triterpenoid metabolic process</i>	0.004 %	-1.2400	0.75	0.79
<a href="#">GO:0010683</a>	<i>tricyclic triterpenoid metabolic process</i>	0.013 %	-1.1677	0.74	0.84
<a href="#">GO:0043692</a>	<i>monoterpene metabolic process</i>	0.017 %	-1.6237	0.74	0.85
<a href="#">GO:0019742</a>	<i>pentacyclic triterpenoid metabolic process</i>	0.004 %	-1.0702	0.75	0.84
<a href="#">GO:0019745</a>	<i>pentacyclic triterpenoid biosynthetic process</i>	0.004 %	-1.2400	0.74	0.81
<a href="#">GO:0045338</a>	<i>farnesyl diphosphate metabolic process</i>	0.078 %	-1.0970	0.72	0.80
<a href="#">GO:0016099</a>	<i>monoterpenoid biosynthetic process</i>	0.004 %	-1.3988	0.75	0.52
<a href="#">GO:0016098</a>	<i>monoterpenoid metabolic process</i>	0.004 %	-1.3988	0.77	0.51
<a href="#">GO:0016104</a>	<i>triterpenoid biosynthetic process</i>	0.030 %	-1.0138	0.71	0.93
<a href="#">GO:0016106</a>	<i>sesquiterpenoid biosynthetic process</i>	0.138 %	-1.2270	0.70	0.84
<a href="#">GO:0016114</a>	<i>terpenoid biosynthetic process</i>	0.591 %	-1.5485	0.67	0.71
<a href="#">GO:0006714</a>	<i>sesquiterpenoid metabolic process</i>	0.181 %	-1.1258	0.71	0.86
<a href="#">GO:0006721</a>	<i>terpenoid metabolic process</i>	0.699 %	-1.3401	0.69	0.94
<a href="#">GO:0008299</a>	<i>isoprenoid biosynthetic process</i>	0.738 %	-1.3084	0.67	0.96
<a href="#">GO:0046246</a>	<i>terpene biosynthetic process</i>	0.043 %	-1.0702	0.71	0.89
<a href="#">GO:0010263</a>	<i>tricyclic triterpenoid biosynthetic process</i>	0.009 %	-1.2534	0.73	0.87
<a href="#">GO:1901983</a>	<b>regulation of protein acetylation</b>	<b>0.056 %</b>	<b>-1.2400</b>	<b>0.82</b>	<b>0.23</b>
<a href="#">GO:0032269</a>	<i>negative regulation of cellular protein metabolic process</i>	0.673 %	-1.1108	0.80	0.77
<a href="#">GO:2000756</a>	<i>regulation of peptidyl-lysine acetylation</i>	0.056 %	-1.2400	0.81	1.00
<a href="#">GO:0051248</a>	<i>negative regulation of protein metabolic process</i>	0.678 %	-1.1108	0.82	0.60
<a href="#">GO:1900111</a>	<i>positive regulation of histone H3-K9 dimethylation</i>	0.017 %	-1.3618	0.79	0.89
<a href="#">GO:1900109</a>	<i>regulation of histone H3-K9 dimethylation</i>	0.022 %	-1.3618	0.79	0.99
<a href="#">GO:2000757</a>	<i>negative regulation of peptidyl-lysine acetylation</i>	0.039 %	-1.2964	0.80	1.00
<a href="#">GO:1901984</a>	<i>negative regulation of protein acetylation</i>	0.039 %	-1.2964	0.80	0.95
<a href="#">GO:0031060</a>	<i>regulation of histone methylation</i>	0.086 %	-1.1677	0.78	0.92
<a href="#">GO:0031057</a>	<i>negative regulation of histone modification</i>	0.047 %	-1.2964	0.78	0.95
<a href="#">GO:0031058</a>	<i>positive regulation of histone modification</i>	0.069 %	-1.2816	0.78	0.87
<a href="#">GO:0031062</a>	<i>positive regulation of histone methylation</i>	0.047 %	-1.2816	0.78	0.94
<a href="#">GO:0051570</a>	<i>regulation of histone H3-K9 methylation</i>	0.039 %	-1.2672	0.79	0.87
<a href="#">GO:1905269</a>	<i>positive regulation of chromatin organization</i>	0.086 %	-1.2023	0.84	0.81
<a href="#">GO:1905268</a>	<i>negative regulation of chromatin organization</i>	0.065 %	-1.0702	0.83	0.84
<a href="#">GO:0051574</a>	<i>positive regulation of histone H3-K9 methylation</i>	0.022 %	-1.3118	0.79	0.92
<a href="#">GO:0035065</a>	<i>regulation of histone acetylation</i>	0.056 %	-1.2400	0.78	0.98
<a href="#">GO:0035067</a>	<i>negative regulation of histone acetylation</i>	0.039 %	-1.2964	0.77	0.75
<a href="#">GO:0036123</a>	<i>histone H3-K9 dimethylation</i>	0.022 %	-1.3618	0.84	1.00
<a href="#">GO:0043062</a>	<b>extracellular structure organization</b>	<b>0.233 %</b>	<b>-1.0843</b>	<b>0.81</b>	<b>0.29</b>
<a href="#">GO:0009607</a>	<b>response to biotic stimulus</b>	<b>5.158 %</b>	<b>-2.0630</b>	<b>0.89</b>	<b>0.29</b>
<a href="#">GO:0048508</a>	<b>embryonic meristem development</b>	<b>0.125 %</b>	<b>-2.1210</b>	<b>0.81</b>	<b>0.29</b>
<a href="#">GO:0010214</a>	<i>seed coat development</i>	0.168 %	-1.1543	0.81	0.56
<a href="#">GO:0010067</a>	<i>procambium histogenesis</i>	0.039 %	-1.9224	0.82	0.64
<a href="#">GO:0010065</a>	<i>primary meristem tissue development</i>	0.043 %	-1.7864	0.82	0.86

<a href="#">GO:0009698</a>	<b>phenylpropanoid metabolic process</b>	<b>0.505 %</b>	<b>-5.4016</b>	<b>0.68</b>	<b>0.30</b>
<a href="#">GO:0090487</a>	<i>secondary metabolite catabolic process</i>	0.199 %	-1.2400	0.69	0.67
<a href="#">GO:1902123</a>	<i>(-)-pinosresinol catabolic process</i>	0.081 %	-2.4322	0.56	1.00
<a href="#">GO:1902124</a>	<i>(+)-pinosresinol metabolic process</i>	1.218 %	-1.9567	0.50	1.92
<a href="#">GO:1902127</a>	<i>(-)-lariciresinol metabolic process</i>	1.258 %	-2.1320	0.50	1.47
<a href="#">GO:1902128</a>	<i>(-)-lariciresinol catabolic process</i>	0.087 %	-2.2565	0.56	1.48
<a href="#">GO:1902125</a>	<i>(+)-pinosresinol catabolic process</i>	0.087 %	-1.9567	0.56	1.48
<a href="#">GO:1902131</a>	<i>(+)-lariciresinol catabolic process</i>	0.087 %	-1.9567	0.53	1.48
<a href="#">GO:1902132</a>	<i>(+)-lariciresinol biosynthetic process</i>	0.510 %	-1.9567	0.48	1.75
<a href="#">GO:1902129</a>	<i>(-)-lariciresinol biosynthetic process</i>	0.542 %	-2.1320	0.51	1.76
<a href="#">GO:1902130</a>	<i>(+)-lariciresinol metabolic process</i>	1.007 %	-1.9567	0.47	1.88
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	1.183 %	-3.2292	0.66	0.80
<a href="#">GO:1901598</a>	<i>(-)-pinosresinol metabolic process</i>	0.009 %	-1.6580	0.64	1.02
<a href="#">GO:0009699</a>	<i>phenylpropanoid biosynthetic process</i>	0.337 %	-4.3041	0.63	0.82
<a href="#">GO:1902138</a>	<i>(-)-secoisolariciresinol biosynthetic process</i>	0.083 %	-1.9567	0.54	1.47
<a href="#">GO:1902133</a>	<i>(+)-secoisolariciresinol metabolic process</i>	0.029 %	-2.2565	0.58	1.11
<a href="#">GO:1902136</a>	<i>(-)-secoisolariciresinol metabolic process</i>	0.124 %	-1.9567	0.54	1.52
<a href="#">GO:1902135</a>	<i>(+)-secoisolariciresinol biosynthetic process</i>	0.018 %	-2.2565	0.58	1.20
<a href="#">GO:0009717</a>	<i>isoflavonoid biosynthetic process</i>	0.527 %	-1.6954	0.61	1.10
<a href="#">GO:0009806</a>	<i>lignan metabolic process</i>	0.022 %	-1.5347	0.70	0.67
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	0.285 %	-3.1203	0.65	0.91
<a href="#">GO:0009807</a>	<i>lignan biosynthetic process</i>	0.022 %	-1.5347	0.64	1.09
<a href="#">GO:0009809</a>	<i>lignin biosynthetic process</i>	0.181 %	-2.6396	0.64	0.88
<a href="#">GO:0009801</a>	<i>cinnamic acid ester metabolic process</i>	0.009 %	-1.6580	0.72	0.64
<a href="#">GO:0009407</a>	<i>toxin catabolic process</i>	0.199 %	-1.2400	0.67	0.67
<a href="#">GO:0046287</a>	<i>isoflavonoid metabolic process</i>	1.301 %	-1.6954	0.61	1.05
<a href="#">GO:0046273</a>	<i>lignan catabolic process</i>	0.468 %	-1.9567	0.54	1.73
<a href="#">GO:0046274</a>	<i>lignin catabolic process</i>	0.078 %	-3.0843	0.64	0.73
<a href="#">GO:0046271</a>	<i>phenylpropanoid catabolic process</i>	0.078 %	-4.3554	0.65	0.62
<a href="#">GO:0010037</a>	<b>response to carbon dioxide</b>	<b>0.030 %</b>	<b>-1.2964</b>	<b>0.90</b>	<b>0.30</b>
<a href="#">GO:0010378</a>	<b>temperature compensation of the circadian clock</b>	<b>0.004 %</b>	<b>-1.5919</b>	<b>0.88</b>	<b>0.30</b>
<a href="#">GO:0006869</a>	<b>lipid transport</b>	<b>0.596 %</b>	<b>-1.6709</b>	<b>0.87</b>	<b>0.31</b>
<a href="#">GO:0010876</a>	<i>lipid localization</i>	0.708 %	-1.4574	0.97	0.59
<a href="#">GO:0009820</a>	<b>alkaloid metabolic process</b>	<b>0.009 %</b>	<b>-2.5159</b>	<b>0.94</b>	<b>0.32</b>
<a href="#">GO:0071329</a>	<b>cellular response to sucrose stimulus</b>	<b>0.039 %</b>	<b>-1.0138</b>	<b>0.85</b>	<b>0.32</b>
<a href="#">GO:0071324</a>	<i>cellular response to disaccharide stimulus</i>	0.043 %	-1.0138	0.85	0.78
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-1.3137</b>	<b>0.84</b>	<b>0.32</b>
<a href="#">GO:0019932</a>	<b>second-messenger-mediated signaling</b>	<b>0.319 %</b>	<b>-1.6130</b>	<b>0.77</b>	<b>0.34</b>
<a href="#">GO:0045493</a>	<b>xylan catabolic process</b>	<b>0.017 %</b>	<b>-2.1468</b>	<b>0.85</b>	<b>0.34</b>
<a href="#">GO:0000272</a>	<i>polysaccharide catabolic process</i>	0.777 %	-1.4043	0.83	0.65
<a href="#">GO:0031222</a>	<i>arabinan catabolic process</i>	0.004 %	-1.2816	0.78	0.52
<a href="#">GO:0045491</a>	<i>xylan metabolic process</i>	0.173 %	-1.4524	0.88	0.72
<a href="#">GO:0010410</a>	<i>hemicellulose metabolic process</i>	0.423 %	-1.0989	0.87	0.89
<a href="#">GO:0046838</a>	<b>phosphorylated carbohydrate dephosphorylation</b>	<b>0.030 %</b>	<b>-1.0214</b>	<b>0.90</b>	<b>0.35</b>
<a href="#">GO:0080166</a>	<b>stomium development</b>	<b>0.004 %</b>	<b>-1.9567</b>	<b>0.78</b>	<b>0.35</b>
<a href="#">GO:0048467</a>	<i>gynoecium development</i>	0.315 %	-1.1659	0.79	0.63
<a href="#">GO:0048438</a>	<i>floral whorl development</i>	0.669 %	-1.0068	0.78	0.71
<a href="#">GO:0048653</a>	<i>anther development</i>	0.224 %	-1.0453	0.79	0.84
<a href="#">GO:0022412</a>	<i>cellular process involved in reproduction in multicellular organism</i>	0.177 %	-1.2931	0.77	0.62
<a href="#">GO:0007389</a>	<b>pattern specification process</b>	<b>0.742 %</b>	<b>-1.4127</b>	<b>0.82</b>	<b>0.35</b>
<a href="#">GO:0050982</a>	<b>detection of mechanical stimulus</b>	<b>0.017 %</b>	<b>-1.6237</b>	<b>0.89</b>	<b>0.36</b>
<a href="#">GO:0032107</a>	<b>regulation of response to nutrient levels</b>	<b>0.022 %</b>	<b>-1.4612</b>	<b>0.88</b>	<b>0.36</b>
<a href="#">GO:0032104</a>	<i>regulation of response to extracellular stimulus</i>	0.022 %	-1.4612	0.88	0.68
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-1.9422</b>	<b>0.89</b>	<b>0.36</b>
<a href="#">GO:0010039</a>	<b>response to iron ion</b>	<b>0.237 %</b>	<b>-2.0363</b>	<b>0.88</b>	<b>0.37</b>
<a href="#">GO:0071248</a>	<i>cellular response to metal ion</i>	0.216 %	-1.1705	0.83	0.77
<a href="#">GO:0071241</a>	<i>cellular response to inorganic substance</i>	0.246 %	-1.0034	0.83	0.53
<a href="#">GO:0071280</a>	<i>cellular response to copper ion</i>	0.009 %	-1.7364	0.86	0.50
<a href="#">GO:0010043</a>	<i>response to zinc ion</i>	0.186 %	-1.7455	0.88	0.63
<a href="#">GO:0046688</a>	<i>response to copper ion</i>	0.069 %	-1.6255	0.89	0.58
<a href="#">GO:0010865</a>	<b>stipule development</b>	<b>0.004 %</b>	<b>-1.8325</b>	<b>0.86</b>	<b>0.39</b>
<a href="#">GO:0007267</a>	<b>cell-cell signaling</b>	<b>0.371 %</b>	<b>-1.0879</b>	<b>0.82</b>	<b>0.39</b>
<a href="#">GO:0071456</a>	<b>cellular response to hypoxia</b>	<b>0.117 %</b>	<b>-1.6982</b>	<b>0.81</b>	<b>0.39</b>
<a href="#">GO:0036294</a>	<i>cellular response to decreased oxygen levels</i>	0.129 %	-1.6192	0.81	0.99
<a href="#">GO:0071453</a>	<i>cellular response to oxygen levels</i>	0.129 %	-1.6192	0.81	0.87
<a href="#">GO:0001666</a>	<i>response to hypoxia</i>	0.250 %	-1.0507	0.86	0.92
<a href="#">GO:0051782</a>	<b>negative regulation of cell division</b>	<b>0.022 %</b>	<b>-1.1568</b>	<b>0.80</b>	<b>0.39</b>
<a href="#">GO:0006629</a>	<b>lipid metabolic process</b>	<b>4.683 %</b>	<b>-1.0588</b>	<b>0.75</b>	<b>0.39</b>
<a href="#">GO:0030418</a>	<b>nicotianamine biosynthetic process</b>	<b>0.022 %</b>	<b>-2.1320</b>	<b>0.75</b>	<b>0.40</b>
<a href="#">GO:0072351</a>	<i>tricarboxylic acid biosynthetic process</i>	0.022 %	-2.1320	0.75	0.70
<a href="#">GO:0030417</a>	<i>nicotianamine metabolic process</i>	0.022 %	-2.1320	0.77	0.71
<a href="#">GO:0043620</a>	<b>regulation of DNA-templated transcription in response to stress</b>	<b>0.013 %</b>	<b>-1.0702</b>	<b>0.77</b>	<b>0.40</b>



<a href="#">GO:0010252</a>	<b>auxin homeostasis</b>	<b>0.142 %</b>	<b>-1.0789</b>	<b>0.94</b>	<b>0.40</b>
<i>GO:0055071</i>	<i>manganese ion homeostasis</i>	<i>0.065 %</i>	<i>-1.0370</i>	<i>0.94</i>	<i>0.70</i>
<i>GO:0006879</i>	<i>cellular iron ion homeostasis</i>	<i>0.108 %</i>	<i>-1.0616</i>	<i>0.81</i>	<i>0.59</i>
<a href="#">GO:1901616</a>	<b>organic hydroxy compound catabolic process</b>	<b>0.121 %</b>	<b>-1.8773</b>	<b>0.78</b>	<b>0.40</b>
<i>GO:0019751</i>	<i>polyol metabolic process</i>	<i>0.246 %</i>	<i>-1.4777</i>	<i>0.68</i>	<i>0.68</i>
<i>GO:0034312</i>	<i>diol biosynthetic process</i>	<i>0.004 %</i>	<i>-1.6954</i>	<i>0.71</i>	<i>0.51</i>
<i>GO:0034311</i>	<i>diol metabolic process</i>	<i>0.004 %</i>	<i>-1.6954</i>	<i>0.74</i>	<i>0.60</i>
<i>GO:0034310</i>	<i>primary alcohol catabolic process</i>	<i>0.128 %</i>	<i>-1.9567</i>	<i>0.64</i>	<i>0.91</i>
<i>GO:0034309</i>	<i>primary alcohol biosynthetic process</i>	<i>0.009 %</i>	<i>-1.9567</i>	<i>0.71</i>	<i>0.94</i>
<i>GO:0019336</i>	<i>phenol-containing compound catabolic process</i>	<i>0.030 %</i>	<i>-1.9567</i>	<i>0.73</i>	<i>0.58</i>
<i>GO:0032957</i>	<i>inositol trisphosphate metabolic process</i>	<i>0.035 %</i>	<i>-1.0702</i>	<i>0.69</i>	<i>0.75</i>
<i>GO:0046855</i>	<i>inositol phosphate dephosphorylation</i>	<i>0.026 %</i>	<i>-1.0214</i>	<i>0.65</i>	<i>0.95</i>
<i>GO:0006066</i>	<i>alcohol metabolic process</i>	<i>0.505 %</i>	<i>-1.0617</i>	<i>0.68</i>	<i>0.76</i>
<i>GO:0071545</i>	<i>inositol phosphate catabolic process</i>	<i>0.026 %</i>	<i>-1.0214</i>	<i>0.66</i>	<i>0.95</i>
<i>GO:0046173</i>	<i>polyol biosynthetic process</i>	<i>0.082 %</i>	<i>-1.0370</i>	<i>0.67</i>	<i>0.80</i>
<i>GO:0046164</i>	<i>alcohol catabolic process</i>	<i>0.082 %</i>	<i>-2.0214</i>	<i>0.66</i>	<i>0.97</i>
<a href="#">GO:0009739</a>	<b>response to gibberellin</b>	<b>0.626 %</b>	<b>-2.1375</b>	<b>0.88</b>	<b>0.41</b>
<i>GO:0009751</i>	<i>response to salicylic acid</i>	<i>0.876 %</i>	<i>-1.1758</i>	<i>0.87</i>	<i>0.58</i>
<a href="#">GO:0048569</a>	<b>post-embryonic animal organ development</b>	<b>0.572 %</b>	<b>-1.6580</b>	<b>0.77</b>	<b>0.41</b>
<i>GO:0048504</i>	<i>regulation of timing of animal organ formation</i>	<i>0.004 %</i>	<i>-1.4612</i>	<i>0.79</i>	<i>1.32</i>
<i>GO:0010160</i>	<i>formation of animal organ boundary</i>	<i>0.055 %</i>	<i>-1.0616</i>	<i>0.78</i>	<i>1.59</i>
<i>GO:2000027</i>	<i>regulation of organ morphogenesis</i>	<i>0.004 %</i>	<i>-1.0532</i>	<i>0.80</i>	<i>1.32</i>
<i>GO:0003156</i>	<i>regulation of animal organ formation</i>	<i>0.004 %</i>	<i>-1.1568</i>	<i>0.79</i>	<i>1.32</i>
<a href="#">GO:0072350</a>	<b>tricarboxylic acid metabolic process</b>	<b>0.259 %</b>	<b>-1.0702</b>	<b>0.75</b>	<b>0.41</b>
<a href="#">GO:0080027</a>	<b>response to herbivore</b>	<b>0.043 %</b>	<b>-1.0370</b>	<b>0.91</b>	<b>0.42</b>
<a href="#">GO:0071457</a>	<b>cellular response to ozone</b>	<b>0.013 %</b>	<b>-1.6954</b>	<b>0.85</b>	<b>0.42</b>
<i>GO:0034599</i>	<i>cellular response to oxidative stress</i>	<i>0.453 %</i>	<i>-1.0562</i>	<i>0.83</i>	<i>0.54</i>
<i>GO:0034614</i>	<i>cellular response to reactive oxygen species</i>	<i>0.207 %</i>	<i>-1.2399</i>	<i>0.83</i>	<i>0.71</i>
<a href="#">GO:0031221</a>	<b>arabinan metabolic process</b>	<b>0.009 %</b>	<b>-1.1064</b>	<b>0.81</b>	<b>0.43</b>
<a href="#">GO:0009555</a>	<b>pollen development</b>	<b>1.230 %</b>	<b>-1.0807</b>	<b>0.82</b>	<b>0.44</b>
<a href="#">GO:0048016</a>	<b>inositol phosphate-mediated signaling</b>	<b>0.009 %</b>	<b>-1.3278</b>	<b>0.81</b>	<b>0.45</b>
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-1.3605</b>	<b>0.88</b>	<b>0.45</b>
<a href="#">GO:0009642</a>	<b>response to light intensity</b>	<b>0.587 %</b>	<b>-2.0096</b>	<b>0.85</b>	<b>0.45</b>
<i>GO:0010224</i>	<i>response to UV-B</i>	<i>0.298 %</i>	<i>-1.0930</i>	<i>0.85</i>	<i>0.78</i>
<i>GO:0048578</i>	<i>positive regulation of long-day photoperiodism, flowering</i>	<i>0.030 %</i>	<i>-1.2672</i>	<i>0.69</i>	<i>0.53</i>
<i>GO:0009644</i>	<i>response to high light intensity</i>	<i>0.324 %</i>	<i>-1.2440</i>	<i>0.85</i>	<i>0.64</i>
<i>GO:0009637</i>	<i>response to blue light</i>	<i>0.341 %</i>	<i>-1.3500</i>	<i>0.86</i>	<i>0.64</i>
<i>GO:0009647</i>	<i>skotomorphogenesis</i>	<i>0.026 %</i>	<i>-1.1568</i>	<i>0.75</i>	<i>0.73</i>
<i>GO:0009785</i>	<i>blue light signaling pathway</i>	<i>0.078 %</i>	<i>-1.9413</i>	<i>0.74</i>	<i>0.57</i>
<i>GO:0034644</i>	<i>cellular response to UV</i>	<i>0.073 %</i>	<i>-1.0450</i>	<i>0.82</i>	<i>0.83</i>
<i>GO:0071482</i>	<i>cellular response to light stimulus</i>	<i>0.561 %</i>	<i>-1.4910</i>	<i>0.80</i>	<i>0.85</i>
<i>GO:0071483</i>	<i>cellular response to blue light</i>	<i>0.104 %</i>	<i>-1.7337</i>	<i>0.82</i>	<i>0.81</i>
<i>GO:0071484</i>	<i>cellular response to light intensity</i>	<i>0.043 %</i>	<i>-1.1258</i>	<i>0.83</i>	<i>0.76</i>
<i>GO:0071478</i>	<i>cellular response to radiation</i>	<i>0.583 %</i>	<i>-1.4910</i>	<i>0.80</i>	<i>0.91</i>
<i>GO:0071493</i>	<i>cellular response to UV-B</i>	<i>0.030 %</i>	<i>-1.2270</i>	<i>0.83</i>	<i>0.68</i>
<a href="#">GO:0010286</a>	<b>heat acclimation</b>	<b>0.207 %</b>	<b>-1.0901</b>	<b>0.88</b>	<b>0.45</b>
<a href="#">GO:1901502</a>	<b>ether catabolic process</b>	<b>0.474 %</b>	<b>-1.9567</b>	<b>0.68</b>	<b>0.46</b>
<i>GO:1901503</i>	<i>ether biosynthetic process</i>	<i>1.458 %</i>	<i>-1.9567</i>	<i>0.68</i>	<i>1.37</i>
<a href="#">GO:0042128</a>	<b>nitrate assimilation</b>	<b>0.181 %</b>	<b>-1.0214</b>	<b>0.75</b>	<b>0.46</b>
<i>GO:0042126</i>	<i>nitrate metabolic process</i>	<i>0.181 %</i>	<i>-1.0214</i>	<i>0.75</i>	<i>0.98</i>
<a href="#">GO:0044703</a>	<b>multi-organism reproductive process</b>	<b>1.610 %</b>	<b>-1.3971</b>	<b>0.92</b>	<b>0.47</b>
<i>GO:0009566</i>	<i>fertilization</i>	<i>0.199 %</i>	<i>-1.3906</i>	<i>0.85</i>	<i>0.72</i>
<i>GO:0007338</i>	<i>single fertilization</i>	<i>0.060 %</i>	<i>-1.1462</i>	<i>0.86</i>	<i>0.75</i>
<i>GO:0019953</i>	<i>sexual reproduction</i>	<i>0.596 %</i>	<i>-1.4043</i>	<i>0.93</i>	<i>0.71</i>
<a href="#">GO:2000122</a>	<b>negative regulation of stomatal complex development</b>	<b>0.022 %</b>	<b>-1.8901</b>	<b>0.79</b>	<b>0.49</b>
<i>GO:0010052</i>	<i>guard cell differentiation</i>	<i>0.082 %</i>	<i>-1.2534</i>	<i>0.75</i>	<i>0.79</i>
<a href="#">GO:0010654</a>	<b>apical cell fate commitment</b>	<b>0.004 %</b>	<b>-1.8325</b>	<b>0.79</b>	<b>0.49</b>
<a href="#">GO:0009653</a>	<b>anatomical structure morphogenesis</b>	<b>3.500 %</b>	<b>-1.0587</b>	<b>0.89</b>	<b>0.49</b>
<i>GO:0030154</i>	<i>cell differentiation</i>	<i>3.332 %</i>	<i>-1.0447</i>	<i>0.73</i>	<i>0.53</i>
<a href="#">GO:0048479</a>	<b>style development</b>	<b>0.004 %</b>	<b>-1.7364</b>	<b>0.84</b>	<b>0.49</b>
<i>GO:0048480</i>	<i>stigma development</i>	<i>0.004 %</i>	<i>-1.3118</i>	<i>0.84</i>	<i>0.59</i>
<a href="#">GO:0006720</a>	<b>isoprenoid metabolic process</b>	<b>0.850 %</b>	<b>-1.1381</b>	<b>0.71</b>	<b>0.49</b>
<i>GO:0008610</i>	<i>lipid biosynthetic process</i>	<i>2.464 %</i>	<i>-1.0887</i>	<i>0.69</i>	<i>0.69</i>
<a href="#">GO:0015749</a>	<b>monosaccharide transport</b>	<b>0.229 %</b>	<b>-1.3618</b>	<b>0.88</b>	<b>0.50</b>

Biological Process (249) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 32

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

<a href="#">Hide/show dispensable GO terms</a>		<a href="#">Export results to text table (CSV)</a>			<a href="#">Make R script for plotting</a>	
term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009653</a>	<b>anatomical structure morphogenesis</b>	3.500 %		-3.2123	0.87	0.00
<a href="#">GO:0044707</a>	<i>single-multicellular organism process</i>	10.699 %		-1.3706	0.81	0.70
<a href="#">GO:0099402</a>	<i>plant organ development</i>	3.763 %		-1.2774	0.78	0.67
<a href="#">GO:0044767</a>	<i>single-organism developmental process</i>	12.123 %		-2.2229	0.78	0.66
<a href="#">GO:0022622</a>	<i>root system development</i>	1.895 %		-1.8554	0.79	0.52
<a href="#">GO:0007275</a>	<i>multicellular organism development</i>	10.423 %		-1.2071	0.77	0.86
<a href="#">GO:0030154</a>	<i>cell differentiation</i>	3.332 %		-1.2241	0.70	0.53
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %		-1.7977	0.86	0.85
<a href="#">GO:0009793</a>	<i>embryo development ending in seed dormancy</i>	1.584 %		-1.1492	0.78	0.60
<a href="#">GO:0045596</a>	<i>negative regulation of cell differentiation</i>	0.052 %		-1.1225	0.73	0.56
<a href="#">GO:0090696</a>	<i>post-embryonic plant organ development</i>	0.686 %		-1.8214	0.80	0.54
<a href="#">GO:0009682</a>	<b>induced systemic resistance</b>	0.125 %		-3.1983	0.97	0.00
<a href="#">GO:0009866</a>	<i>induced systemic resistance, ethylene mediated signaling pathway</i>	0.013 %		-1.9863	0.83	0.54
<a href="#">GO:0032501</a>	<b>multicellular organismal process</b>	11.360 %		-1.3026	0.99	0.00
<a href="#">GO:0032502</a>	<b>developmental process</b>	12.689 %		-1.9932	0.99	0.00
<a href="#">GO:0040007</a>	<b>growth</b>	2.529 %		-3.1631	0.99	0.00

<a href="#">GO:0044699</a>	single-organism process	41.709 %	-4.4207	1.00	0.00
<a href="#">GO:0051301</a>	cell division	1.528 %	-11.1410	0.79	0.00
<a href="#">GO:0051338</a>	regulation of transferase activity	0.522 %	-2.7693	0.89	0.00
<a href="#">GO:0050790</a>	<i>regulation of catalytic activity</i>	2.257 %	-1.7931	0.88	0.80
<a href="#">GO:0051704</a>	multi-organism process	3.362 %	-1.5958	0.99	0.00
<a href="#">GO:0065007</a>	biological regulation	28.554 %	-1.0336	0.99	0.00
<a href="#">GO:0071840</a>	cellular component organization or biogenesis	14.454 %	-6.1136	0.99	0.00
<a href="#">GO:0010425</a>	DNA methylation on cytosine within a CNG sequence	0.004 %	-4.8848	0.80	0.03
<a href="#">GO:0006305</a>	<i>DNA alkylation</i>	0.250 %	-1.8405	0.77	0.96
<a href="#">GO:0006306</a>	<i>DNA methylation</i>	0.250 %	-1.8405	0.74	0.91
<a href="#">GO:0032776</a>	<i>DNA methylation on cytosine</i>	0.078 %	-3.1200	0.77	0.69
<a href="#">GO:0034968</a>	<i>histone lysine methylation</i>	0.298 %	-2.2293	0.70	0.86
<a href="#">GO:0045814</a>	<i>negative regulation of gene expression, epigenetic</i>	0.311 %	-1.8049	0.82	0.85
<a href="#">GO:0018205</a>	<i>peptidyl-lysine modification</i>	0.725 %	-1.5719	0.83	0.64
<a href="#">GO:0006333</a>	<i>chromatin assembly or disassembly</i>	0.207 %	-1.7710	0.80	0.76
<a href="#">GO:0044728</a>	<i>DNA methylation or demethylation</i>	0.298 %	-1.8200	0.76	0.98
<a href="#">GO:0006342</a>	<i>chromatin silencing</i>	0.298 %	-1.8669	0.59	0.79
<a href="#">GO:0061647</a>	<i>histone H3-K9 modification</i>	0.069 %	-2.5861	0.75	0.64
<a href="#">GO:0051567</a>	<i>histone H3-K9 methylation</i>	0.065 %	-2.5861	0.73	0.53
<a href="#">GO:0043414</a>	<i>macromolecule methylation</i>	0.928 %	-1.2562	0.82	0.65
<a href="#">GO:0016572</a>	<i>histone phosphorylation</i>	0.026 %	-2.1617	0.75	0.60
<a href="#">GO:0016571</a>	<i>histone methylation</i>	0.354 %	-1.9169	0.70	0.97
<a href="#">GO:0016570</a>	<i>histone modification</i>	0.893 %	-2.3088	0.70	0.89
<a href="#">GO:0016569</a>	<i>covalent chromatin modification</i>	1.273 %	-2.2043	0.71	0.69
<a href="#">GO:0018022</a>	<i>peptidyl-lysine methylation</i>	0.350 %	-2.2125	0.81	0.93
<a href="#">GO:0006479</a>	<i>protein methylation</i>	0.475 %	-1.7951	0.81	0.97
<a href="#">GO:0032259</a>	methylation	1.834 %	-1.2333	0.95	0.04
<a href="#">GO:0009294</a>	DNA mediated transformation	0.099 %	-3.0658	0.94	0.04
<a href="#">GO:0044764</a>	<i>multi-organism cellular process</i>	0.414 %	-1.3417	0.93	0.53
<a href="#">GO:0009292</a>	<i>genetic transfer</i>	0.099 %	-3.0658	0.94	0.79
<a href="#">GO:0051276</a>	chromosome organization	1.118 %	-3.8411	0.80	0.05
<a href="#">GO:0000280</a>	<i>nuclear division</i>	1.079 %	-1.1669	0.79	0.67
<a href="#">GO:0006323</a>	<i>DNA packaging</i>	0.220 %	-3.0273	0.80	0.78
<a href="#">GO:0098813</a>	<i>nuclear chromosome segregation</i>	0.436 %	-2.0544	0.66	0.92
<a href="#">GO:0006265</a>	<i>DNA topological change</i>	0.065 %	-1.5823	0.70	0.71
<a href="#">GO:1902589</a>	<i>single-organism organelle organization</i>	1.675 %	-1.2720	0.68	0.60
<a href="#">GO:0006334</a>	<i>nucleosome assembly</i>	0.134 %	-2.0341	0.75	0.82
<a href="#">GO:0000819</a>	<i>sister chromatid segregation</i>	0.285 %	-2.4755	0.57	0.80
<a href="#">GO:0051783</a>	<i>regulation of nuclear division</i>	0.181 %	-1.0497	0.75	0.80
<a href="#">GO:0030261</a>	<i>chromosome condensation</i>	0.052 %	-1.8621	0.82	0.86
<a href="#">GO:0065004</a>	<i>protein-DNA complex assembly</i>	0.393 %	-1.9401	0.79	0.91
<a href="#">GO:0048285</a>	<i>organelle fission</i>	1.239 %	-1.0057	0.79	0.61
<a href="#">GO:0034728</a>	<i>nucleosome organization</i>	0.173 %	-2.0341	0.80	0.84
<a href="#">GO:0031497</a>	<i>chromatin assembly</i>	0.164 %	-1.8669	0.76	0.95
<a href="#">GO:0000070</a>	<i>mitotic sister chromatid segregation</i>	0.207 %	-1.2962	0.57	0.90
<a href="#">GO:0007076</a>	<i>mitotic chromosome condensation</i>	0.022 %	-1.8621	0.62	0.65
<a href="#">GO:0071103</a>	<i>DNA conformation change</i>	0.539 %	-3.7260	0.79	0.53
<a href="#">GO:0040020</a>	<i>regulation of meiotic nuclear division</i>	0.047 %	-1.2115	0.58	0.71
<a href="#">GO:0071669</a>	plant-type cell wall organization or biogenesis	1.152 %	-5.0734	0.87	0.05
<a href="#">GO:0042547</a>	<i>cell wall modification involved in multidimensional cell growth</i>	0.017 %	-1.2778	0.74	0.60
<a href="#">GO:0042546</a>	<i>cell wall biogenesis</i>	0.928 %	-3.8434	0.78	0.73
<a href="#">GO:0010215</a>	<i>cellulose microfibril organization</i>	0.073 %	-1.3155	0.71	0.77
<a href="#">GO:0070726</a>	<i>cell wall assembly</i>	0.082 %	-1.1965	0.80	0.71
<a href="#">GO:2000652</a>	<i>regulation of secondary cell wall biogenesis</i>	0.095 %	-1.0929	0.74	0.78
<a href="#">GO:1903338</a>	<i>regulation of cell wall organization or biogenesis</i>	0.138 %	-1.0654	0.82	0.61
<a href="#">GO:0009664</a>	<i>plant-type cell wall organization</i>	0.652 %	-1.8364	0.78	0.87
<a href="#">GO:0045492</a>	<i>xylan biosynthetic process</i>	0.138 %	-1.0346	0.64	0.74
<a href="#">GO:0071555</a>	<i>cell wall organization</i>	2.430 %	-1.7819	0.76	0.82
<a href="#">GO:0009832</a>	<i>plant-type cell wall biogenesis</i>	0.626 %	-4.1089	0.77	0.84
<a href="#">GO:0009834</a>	<i>plant-type secondary cell wall biogenesis</i>	0.263 %	-4.5820	0.79	0.64
<a href="#">GO:0071668</a>	<i>plant-type cell wall assembly</i>	0.082 %	-1.1965	0.79	0.99
<a href="#">GO:0009828</a>	<i>plant-type cell wall loosening</i>	0.022 %	-1.7660	0.82	0.52
<a href="#">GO:0071554</a>	cell wall organization or biogenesis	3.168 %	-4.1799	0.93	0.06
<a href="#">GO:0030243</a>	cellulose metabolic process	0.337 %	-1.2446	0.86	0.09
<a href="#">GO:0000272</a>	<i>polysaccharide catabolic process</i>	0.777 %	-1.1011	0.88	0.74
<a href="#">GO:0051275</a>	<i>beta-glucan catabolic process</i>	0.112 %	-1.1965	0.86	0.89
<a href="#">GO:0051273</a>	<i>beta-glucan metabolic process</i>	0.393 %	-1.0636	0.86	0.82
<a href="#">GO:0030245</a>	<i>cellulose catabolic process</i>	0.112 %	-1.1965	0.86	0.88
<a href="#">GO:0005976</a>	<i>polysaccharide metabolic process</i>	1.899 %	-1.0782	0.89	0.60
<a href="#">GO:0072348</a>	sulfur compound transport	0.147 %	-1.2778	0.91	0.10

<a href="#">GO:0019748</a>	secondary metabolic process	1.938 %	-3.5219	0.85	0.13
<a href="#">GO:0009821</a>	alkaloid biosynthetic process	0.795 %	-3.0955	0.86	0.14
<a href="#">GO:0080144</a>	amino acid homeostasis	0.060 %	-1.2039	0.93	0.14
<a href="#">GO:1901361</a>	organic cyclic compound catabolic process	0.937 %	-1.6114	0.89	0.15
<a href="#">GO:0010212</a>	response to ionizing radiation	0.129 %	-2.6265	0.97	0.15
<a href="#">GO:0043412</a>	macromolecule modification	15.900 %	-1.5955	0.90	0.16
<a href="#">GO:0051174</a>	regulation of phosphorus metabolic process	0.561 %	-2.3587	0.81	0.17
<a href="#">GO:0009723</a>	response to ethylene	1.269 %	-1.0911	0.97	0.18
<a href="#">GO:0044763</a>	single-organism cellular process	23.034 %	-5.3156	0.82	0.19
<a href="#">GO:0065009</a>	regulation of molecular function	2.443 %	-1.3129	0.91	0.20
<a href="#">GO:0008356</a>	asymmetric cell division	0.091 %	-5.2546	0.79	0.20
<a href="#">GO:0051302</a>	<i>regulation of cell division</i>	0.199 %	-1.5329	0.74	0.62
<a href="#">GO:0010069</a>	<i>zygote asymmetric cytokinesis in embryo sac</i>	0.013 %	-3.6563	0.64	0.79
<a href="#">GO:0010070</a>	<i>zygote asymmetric cell division</i>	0.017 %	-3.6563	0.81	0.53
<a href="#">GO:0009786</a>	<i>regulation of asymmetric cell division</i>	0.017 %	-1.7382	0.78	0.81
<a href="#">GO:0034434</a>	<b>sterol esterification</b>	0.009 %	-1.7660	0.81	0.21
<a href="#">GO:0016127</a>	<i>sterol catabolic process</i>	0.009 %	-1.7660	0.83	0.58
<a href="#">GO:0006706</a>	<i>steroid catabolic process</i>	0.009 %	-1.7660	0.85	0.58
<a href="#">GO:0034433</a>	<i>steroid esterification</i>	0.009 %	-1.7660	0.81	0.58
<a href="#">GO:0007018</a>	<b>microtubule-based movement</b>	0.281 %	-8.5529	0.82	0.22
<a href="#">GO:0080175</a>	<i>phragmoplast microtubule organization</i>	0.017 %	-1.6213	0.76	0.65
<a href="#">GO:0006928</a>	movement of cell or subcellular component	0.363 %	-8.3121	0.82	0.23
<a href="#">GO:0007059</a>	chromosome segregation	0.531 %	-1.9342	0.81	0.24
<a href="#">GO:0007017</a>	microtubule-based process	0.859 %	-5.3312	0.80	0.25
<a href="#">GO:0080170</a>	hydrogen peroxide transmembrane transport	0.022 %	-1.2271	0.99	0.25
<a href="#">GO:0016049</a>	<b>cell growth</b>	1.519 %	-3.3973	0.78	0.27
<a href="#">GO:0001558</a>	<i>regulation of cell growth</i>	0.293 %	-1.1649	0.68	0.72
<a href="#">GO:2000603</a>	<i>regulation of secondary growth</i>	0.009 %	-1.1749	0.86	0.53
<a href="#">GO:2000605</a>	<i>positive regulation of secondary growth</i>	0.004 %	-1.1965	0.86	0.87
<a href="#">GO:0040008</a>	<i>regulation of growth</i>	1.148 %	-1.2076	0.88	0.83
<a href="#">GO:0009605</a>	<b>response to external stimulus</b>	6.366 %	-1.0300	0.97	0.28
<a href="#">GO:0007049</a>	<b>cell cycle</b>	2.525 %	-10.1603	0.78	0.29
<a href="#">GO:0022402</a>	<b>cell cycle process</b>	1.713 %	-8.6847	0.64	0.29
<a href="#">GO:0000281</a>	<i>mitotic cytokinesis</i>	0.311 %	-6.0377	0.64	0.86
<a href="#">GO:0000278</a>	<i>mitotic cell cycle</i>	1.152 %	-8.4754	0.65	0.84
<a href="#">GO:0001932</a>	<i>regulation of protein phosphorylation</i>	0.432 %	-2.8191	0.74	0.98
<a href="#">GO:0045859</a>	<i>regulation of protein kinase activity</i>	0.423 %	-2.9537	0.73	0.95
<a href="#">GO:0051726</a>	<i>regulation of cell cycle</i>	0.811 %	-5.0871	0.62	0.81
<a href="#">GO:0006279</a>	<i>premeiotic DNA replication</i>	0.004 %	-2.9386	0.66	0.51
<a href="#">GO:0019220</a>	<i>regulation of phosphate metabolic process</i>	0.561 %	-2.3587	0.78	0.98
<a href="#">GO:0044772</a>	<i>mitotic cell cycle phase transition</i>	0.190 %	-1.1104	0.66	0.97
<a href="#">GO:0044770</a>	<i>cell cycle phase transition</i>	0.207 %	-1.1104	0.68	0.70
<a href="#">GO:0045930</a>	<i>negative regulation of mitotic cell cycle</i>	0.108 %	-1.4280	0.63	0.84
<a href="#">GO:0071900</a>	<i>regulation of protein serine/threonine kinase activity</i>	0.242 %	-3.2987	0.74	0.86
<a href="#">GO:0044839</a>	<i>cell cycle G2/M phase transition</i>	0.091 %	-1.6014	0.68	0.87
<a href="#">GO:0044774</a>	<i>mitotic DNA integrity checkpoint</i>	0.043 %	-2.2406	0.64	0.61
<a href="#">GO:0007346</a>	<i>regulation of mitotic cell cycle</i>	0.306 %	-2.2378	0.62	0.86
<a href="#">GO:0051321</a>	<i>meiotic cell cycle</i>	0.716 %	-1.2177	0.66	0.80
<a href="#">GO:0010564</a>	<i>regulation of cell cycle process</i>	0.384 %	-1.8405	0.61	0.79
<a href="#">GO:0043549</a>	<i>regulation of kinase activity</i>	0.427 %	-2.8912	0.78	0.98
<a href="#">GO:0000910</a>	<i>cytokinesis</i>	0.384 %	-5.6179	0.65	0.74
<a href="#">GO:0000911</a>	<i>cytokinesis by cell plate formation</i>	0.194 %	-3.1220	0.65	0.95
<a href="#">GO:0000912</a>	<i>assembly of actomyosin apparatus involved in cytokinesis</i>	0.009 %	-3.7552	0.65	0.66
<a href="#">GO:0000914</a>	<i>phragmoplast assembly</i>	0.009 %	-3.7552	0.64	0.53
<a href="#">GO:1902749</a>	<i>regulation of cell cycle G2/M phase transition</i>	0.082 %	-1.6014	0.64	0.98
<a href="#">GO:1901987</a>	<i>regulation of cell cycle phase transition</i>	0.164 %	-1.2602	0.62	0.95
<a href="#">GO:1902407</a>	<i>assembly of actomyosin apparatus involved in mitotic cytokinesis</i>	0.009 %	-3.7552	0.64	1.00
<a href="#">GO:0032506</a>	<i>cytokinetic process</i>	0.203 %	-3.0349	0.66	0.93
<a href="#">GO:1902410</a>	<i>mitotic cytokinetic process</i>	0.203 %	-3.0349	0.65	0.99
<a href="#">GO:1901990</a>	<i>regulation of mitotic cell cycle phase transition</i>	0.147 %	-1.2602	0.61	0.94
<a href="#">GO:0061640</a>	<i>cytoskeleton-dependent cytokinesis</i>	0.332 %	-5.6868	0.64	0.97
<a href="#">GO:0007093</a>	<i>mitotic cell cycle checkpoint</i>	0.099 %	-1.5298	0.62	0.94
<a href="#">GO:0051445</a>	<i>regulation of meiotic cell cycle</i>	0.060 %	-1.0873	0.66	0.78
<a href="#">GO:0042325</a>	<i>regulation of phosphorylation</i>	0.462 %	-2.7571	0.79	0.95
<a href="#">GO:0000075</a>	<i>cell cycle checkpoint</i>	0.117 %	-1.2962	0.64	0.90
<a href="#">GO:0000079</a>	<i>regulation of cyclin-dependent protein serine/threonine kinase activity</i>	0.138 %	-3.8259	0.56	0.67
<a href="#">GO:0009833</a>	<i>plant-type primary cell wall biogenesis</i>	0.091 %	-1.0346	0.56	0.89
<a href="#">GO:0007067</a>	<i>mitotic nuclear division</i>	0.699 %	-1.8777	0.55	0.93
<a href="#">GO:0031570</a>	<i>DNA integrity checkpoint</i>	0.060 %	-1.5641	0.65	0.89
<a href="#">GO:0010389</a>	<i>regulation of G2/M transition of mitotic cell cycle</i>	0.078 %	-1.6014	0.63	0.77
<a href="#">GO:0000086</a>	<i>G2/M transition of mitotic cell cycle</i>	0.086 %	-1.6014	0.68	0.99

<a href="#">GO:1904029</a>	regulation of cyclin-dependent protein kinase activity	0.138 %	-3.8259	0.55	0.83
<a href="#">GO:1903047</a>	mitotic cell cycle process	1.083 %	-8.8521	0.63	0.83
<a href="#">GO:1903046</a>	meiotic cell cycle process	0.613 %	-1.6326	0.65	0.78
<a href="#">GO:0045786</a>	negative regulation of cell cycle	0.211 %	-1.0817	0.63	0.81
<a href="#">GO:0009698</a>	<b>phenylpropanoid metabolic process</b>	<b>0.505 %</b>	<b>-3.0087</b>	<b>0.74</b>	<b>0.30</b>
<a href="#">GO:0019760</a>	glucosinolate metabolic process	0.514 %	-1.4992	0.73	0.80
<a href="#">GO:0019757</a>	glycosinolate metabolic process	0.514 %	-1.4992	0.73	0.99
<a href="#">GO:0044550</a>	secondary metabolite biosynthetic process	1.183 %	-1.9196	0.80	0.80
<a href="#">GO:0009699</a>	phenylpropanoid biosynthetic process	0.337 %	-2.5328	0.73	0.91
<a href="#">GO:0010023</a>	proanthocyanidin biosynthetic process	0.035 %	-1.3254	0.76	0.79
<a href="#">GO:2000029</a>	regulation of proanthocyanidin biosynthetic process	0.009 %	-2.6378	0.74	0.53
<a href="#">GO:0018958</a>	phenol-containing compound metabolic process	0.190 %	-1.1225	0.87	0.55
<a href="#">GO:0046189</a>	phenol-containing compound biosynthetic process	0.104 %	-1.1225	0.87	0.84
<a href="#">GO:0009808</a>	lignin metabolic process	0.285 %	-2.9908	0.74	0.69
<a href="#">GO:0009809</a>	lignin biosynthetic process	0.181 %	-2.3088	0.74	0.86
<a href="#">GO:0046274</a>	lignin catabolic process	0.078 %	-2.2378	0.75	0.87
<a href="#">GO:0046271</a>	phenylpropanoid catabolic process	0.078 %	-2.1879	0.75	0.81
<a href="#">GO:0090057</a>	root radial pattern formation	0.013 %	-2.0950	0.84	0.31
<a href="#">GO:0009820</a>	alkaloid metabolic process	0.009 %	-2.9215	0.94	0.32
<a href="#">GO:0019222</a>	regulation of metabolic process	14.847 %	-1.1352	0.84	0.32
<a href="#">GO:0006839</a>	mitochondrial transport	0.522 %	-1.1545	0.98	0.32
<a href="#">GO:0031399</a>	regulation of protein modification process	0.699 %	-2.1896	0.75	0.33
<a href="#">GO:0032268</a>	regulation of cellular protein metabolic process	1.921 %	-1.1491	0.75	0.85
<a href="#">GO:0016458</a>	gene silencing	0.773 %	-1.0315	0.70	0.34
<a href="#">GO:0008213</a>	protein alkylation	0.475 %	-1.7951	0.85	0.35
<a href="#">GO:0070417</a>	cellular response to cold	0.147 %	-1.9055	0.92	0.35
<a href="#">GO:0040029</a>	regulation of gene expression, epigenetic	0.691 %	-1.0136	0.83	0.37
<a href="#">GO:0051246</a>	regulation of protein metabolic process	2.123 %	-1.0522	0.80	0.39
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %	-1.0641	0.80	0.56
<a href="#">GO:0060255</a>	regulation of macromolecule metabolic process	14.091 %	-1.0528	0.78	0.82
<a href="#">GO:0080167</a>	response to karrikin	0.531 %	-1.1096	0.97	0.40
<a href="#">GO:0018193</a>	peptidyl-amino acid modification	1.813 %	-1.2199	0.83	0.40
<a href="#">GO:0016310</a>	phosphorylation	6.966 %	-1.5356	0.85	0.75
<a href="#">GO:0036211</a>	protein modification process	12.719 %	-1.9097	0.84	0.75
<a href="#">GO:0006464</a>	cellular protein modification process	12.719 %	-1.9097	0.79	0.59
<a href="#">GO:0006468</a>	protein phosphorylation	5.334 %	-2.0023	0.78	0.72
<a href="#">GO:0008272</a>	sulfate transport	0.078 %	-1.3461	0.91	0.41
<a href="#">GO:0006325</a>	chromatin organization	1.675 %	-3.0533	0.79	0.41
<a href="#">GO:0071824</a>	protein-DNA complex subunit organization	0.432 %	-1.9401	0.81	0.60
<a href="#">GO:0006636</a>	unsaturated fatty acid biosynthetic process	0.108 %	-1.3057	0.78	0.41
<a href="#">GO:0033559</a>	unsaturated fatty acid metabolic process	0.112 %	-1.3057	0.79	0.65
<a href="#">GO:0051128</a>	regulation of cellular component organization	1.467 %	-1.2089	0.74	0.42
<a href="#">GO:0045229</a>	external encapsulating structure organization	2.577 %	-1.4796	0.80	0.45
<a href="#">GO:0016043</a>	cellular component organization	13.263 %	-3.8731	0.77	0.66
<a href="#">GO:0022607</a>	cellular component assembly	3.949 %	-1.3336	0.77	0.56
<a href="#">GO:0044085</a>	cellular component biogenesis	5.783 %	-3.1283	0.83	0.68
<a href="#">GO:0043933</a>	macromolecular complex subunit organization	4.933 %	-1.3929	0.79	0.53
<a href="#">GO:0006996</a>	organelle organization	6.439 %	-1.4072	0.78	0.69
<a href="#">GO:0048646</a>	<b>anatomical structure formation involved in morphogenesis</b>	<b>0.755 %</b>	<b>-2.9926</b>	<b>0.86</b>	<b>0.46</b>
<a href="#">GO:0048532</a>	anatomical structure arrangement	0.289 %	-1.1792	0.81	0.60
<a href="#">GO:0048528</a>	post-embryonic root development	0.501 %	-1.4293	0.79	0.93
<a href="#">GO:0048527</a>	lateral root development	0.457 %	-1.5991	0.79	0.92
<a href="#">GO:0090558</a>	plant epidermis development	1.001 %	-1.8564	0.87	0.61
<a href="#">GO:0010102</a>	lateral root morphogenesis	0.229 %	-2.1502	0.78	0.86
<a href="#">GO:0010101</a>	post-embryonic root morphogenesis	0.233 %	-2.1502	0.78	0.90
<a href="#">GO:0010026</a>	trichome differentiation	0.341 %	-1.0653	0.73	0.71
<a href="#">GO:0010492</a>	maintenance of shoot apical meristem identity	0.056 %	-1.2689	0.84	0.62
<a href="#">GO:0010015</a>	root morphogenesis	0.967 %	-2.5496	0.77	0.68
<a href="#">GO:1905392</a>	plant organ morphogenesis	1.485 %	-2.3029	0.77	0.73
<a href="#">GO:0048364</a>	root development	1.886 %	-1.8682	0.77	0.90
<a href="#">GO:0010311</a>	lateral root formation	0.168 %	-1.5364	0.78	0.97
<a href="#">GO:0090697</a>	post-embryonic plant organ morphogenesis	0.419 %	-2.4764	0.77	0.82
<a href="#">GO:0090698</a>	post-embryonic plant morphogenesis	0.716 %	-2.6652	0.86	0.66
<a href="#">GO:0009933</a>	meristem structural organization	0.246 %	-1.2703	0.80	0.87
<a href="#">GO:0009934</a>	regulation of meristem structural organization	0.065 %	-2.0822	0.77	0.53
<a href="#">GO:0090626</a>	plant epidermis morphogenesis	0.367 %	-1.0381	0.85	0.81
<a href="#">GO:0006260</a>	<b>DNA replication</b>	<b>0.665 %</b>	<b>-4.5614</b>	<b>0.78</b>	<b>0.47</b>
<a href="#">GO:0006302</a>	double-strand break repair	0.483 %	-1.0346	0.78	0.77
<a href="#">GO:0006304</a>	DNA modification	0.311 %	-1.8200	0.77	0.66
<a href="#">GO:0090068</a>	positive regulation of cell cycle process	0.104 %	-1.3057	0.63	0.82
<a href="#">GO:0042023</a>	DNA endoreduplication	0.160 %	-1.8615	0.58	0.86

<a href="#">GO:0006270</a>	<i>DNA replication initiation</i>	0.086 %	-1.7957	0.79	0.79
<a href="#">GO:0006275</a>	<i>regulation of DNA replication</i>	0.125 %	-1.1164	0.73	0.82
<a href="#">GO:0006261</a>	<i>DNA-dependent DNA replication</i>	0.419 %	-2.8513	0.77	0.68
<a href="#">GO:0044786</a>	<i>cell cycle DNA replication</i>	0.181 %	-3.1057	0.58	0.84
<a href="#">GO:0032877</a>	<i>positive regulation of DNA endoreduplication</i>	0.022 %	-2.2406	0.57	0.75
<a href="#">GO:0032875</a>	<i>regulation of DNA endoreduplication</i>	0.086 %	-1.2689	0.54	0.93
<a href="#">GO:0090329</a>	<i>regulation of DNA-dependent DNA replication</i>	0.095 %	-1.1749	0.73	0.95
<a href="#">GO:2000105</a>	<i>positive regulation of DNA-dependent DNA replication</i>	0.022 %	-2.2406	0.74	0.98
<a href="#">GO:0051054</a>	<i>positive regulation of DNA metabolic process</i>	0.086 %	-1.5466	0.74	0.59
<a href="#">GO:0033260</a>	<i>nuclear DNA replication</i>	0.022 %	-2.9386	0.63	0.72
<a href="#">GO:0000725</a>	<i>recombinational repair</i>	0.350 %	-1.2517	0.78	0.88
<a href="#">GO:0045740</a>	<i>positive regulation of DNA replication</i>	0.026 %	-2.2406	0.74	0.84
<a href="#">GO:0000724</a>	<i>double-strand break repair via homologous recombination</i>	0.345 %	-1.2517	0.78	0.67
<a href="#">GO:0010332</a>	<b>response to gamma radiation</b>	<b>0.043 %</b>	<b>-2.7450</b>	<b>0.97</b>	<b>0.48</b>
<a href="#">GO:0048829</a>	<b>root cap development</b>	<b>0.065 %</b>	<b>-1.0601</b>	<b>0.83</b>	<b>0.48</b>
<a href="#">GO:0007349</a>	<b>cellularization</b>	<b>0.030 %</b>	<b>-3.1200</b>	<b>0.83</b>	<b>0.50</b>
<a href="#">GO:0009558</a>	<i>embryo sac cellularization</i>	0.022 %	-1.4546	0.83	0.91
<a href="#">GO:0010103</a>	<i>stomatal complex morphogenesis</i>	0.125 %	-1.0346	0.79	0.78
<a href="#">GO:0010376</a>	<i>stomatal complex formation</i>	0.013 %	-2.1617	0.82	0.57
<a href="#">GO:0010342</a>	<i>endosperm cellularization</i>	0.009 %	-2.3373	0.84	0.56
<a href="#">GO:0006949</a>	<i>syncytium formation</i>	0.043 %	-1.1749	0.76	0.61

Biological Process (191) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 33

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000003</a>	reproduction	6.655 %		-2.7262	1.00	0.00
<a href="#">GO:0009624</a>	response to nematode	0.306 %		-4.0798	0.88	0.00
<a href="#">GO:0043207</a>	<i>response to external biotic stimulus</i>	4.981 %		-1.8201	0.85	0.94
<a href="#">GO:0051707</a>	<i>response to other organism</i>	4.968 %		-1.8201	0.85	0.65
<a href="#">GO:0009991</a>	<i>response to extracellular stimulus</i>	0.777 %		-1.4539	0.87	0.66
<a href="#">GO:0071496</a>	<i>cellular response to external stimulus</i>	0.712 %		-1.5757	0.88	0.65
<a href="#">GO:0009820</a>	alkaloid metabolic process	0.009 %		-5.2618	0.93	0.00
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %		-4.1912	0.99	0.00
<a href="#">GO:0032502</a>	developmental process	12.689 %		-4.4014	0.99	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-3.2742	0.99	0.00
<a href="#">GO:0048511</a>	rhythmic process	0.600 %		-1.0037	0.99	0.00
<a href="#">GO:0050896</a>	response to stimulus	25.943 %		-1.3068	0.99	0.00
<a href="#">GO:0051704</a>	multi-organism process	3.362 %		-1.3370	0.99	0.00
<a href="#">GO:0061062</a>	regulation of nematode larval development	0.009 %		-6.3917	0.73	0.00
<a href="#">GO:2000026</a>	<i>regulation of multicellular organismal development</i>	1.765 %		-2.6834	0.62	0.92
<a href="#">GO:2000028</a>	<i>regulation of photoperiodism, flowering</i>	0.190 %		-1.1657	0.57	0.83
<a href="#">GO:2000024</a>	<i>regulation of leaf development</i>	0.224 %		-1.1703	0.67	0.76

<a href="#">GO:0048586</a>	regulation of long-day photoperiodism, flowering	0.086 %	-1.3391	0.59	0.70
<a href="#">GO:0048574</a>	long-day photoperiodism, flowering	0.121 %	-1.1891	0.69	0.95
<a href="#">GO:0048580</a>	regulation of post-embryonic development	1.303 %	-3.1648	0.62	0.58
<a href="#">GO:0048571</a>	long-day photoperiodism	0.138 %	-1.1025	0.90	0.85
<a href="#">GO:0051094</a>	positive regulation of developmental process	0.436 %	-1.1933	0.70	0.73
<a href="#">GO:0002119</a>	nematode larval development	0.009 %	-6.3917	0.81	1.00
<a href="#">GO:1900056</a>	negative regulation of leaf senescence	0.043 %	-1.4070	0.69	0.83
<a href="#">GO:1900055</a>	regulation of leaf senescence	0.104 %	-1.3188	0.69	0.71
<a href="#">GO:0065007</a>	<b>biological regulation</b>	<b>28.554 %</b>	<b>-1.4365</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0009058</a>	<b>biosynthetic process</b>	<b>24.432 %</b>	<b>-1.2580</b>	<b>0.94</b>	<b>0.05</b>
<a href="#">GO:0007338</a>	<b>single fertilization</b>	<b>0.060 %</b>	<b>-3.3553</b>	<b>0.86</b>	<b>0.06</b>
<a href="#">GO:0009566</a>	fertilization	0.199 %	-2.1078	0.85	0.75
<a href="#">GO:0019953</a>	sexual reproduction	0.596 %	-1.4132	0.90	0.65
<a href="#">GO:0015977</a>	<b>carbon fixation</b>	<b>0.104 %</b>	<b>-1.4686</b>	<b>0.88</b>	<b>0.07</b>
<a href="#">GO:0008283</a>	<b>cell proliferation</b>	<b>0.470 %</b>	<b>-1.3170</b>	<b>0.91</b>	<b>0.08</b>
<a href="#">GO:0051457</a>	<b>maintenance of protein location in nucleus</b>	<b>0.013 %</b>	<b>-2.2128</b>	<b>0.77</b>	<b>0.10</b>
<a href="#">GO:0032507</a>	maintenance of protein location in cell	0.078 %	-1.2140	0.74	0.97
<a href="#">GO:0072595</a>	maintenance of protein localization in organelle	0.047 %	-1.7038	0.75	0.86
<a href="#">GO:0034504</a>	protein localization to nucleus	0.268 %	-1.0725	0.95	0.59
<a href="#">GO:0051651</a>	maintenance of location in cell	0.155 %	-1.0986	0.73	0.85
<a href="#">GO:0045185</a>	maintenance of protein location	0.078 %	-1.1435	0.84	0.72
<a href="#">GO:0045912</a>	<b>negative regulation of carbohydrate metabolic process</b>	<b>0.035 %</b>	<b>-1.8869</b>	<b>0.82</b>	<b>0.12</b>
<a href="#">GO:0019253</a>	reductive pentose-phosphate cycle	0.086 %	-1.7566	0.81	0.88
<a href="#">GO:0010110</a>	regulation of photosynthesis, dark reaction	0.013 %	-2.0373	0.76	0.79
<a href="#">GO:1905156</a>	negative regulation of photosynthesis	0.073 %	-1.0313	0.79	0.80
<a href="#">GO:0080153</a>	negative regulation of reductive pentose-phosphate cycle	0.013 %	-2.0373	0.75	0.73
<a href="#">GO:0080152</a>	regulation of reductive pentose-phosphate cycle	0.013 %	-2.0373	0.76	1.00
<a href="#">GO:0071454</a>	<b>cellular response to anoxia</b>	<b>0.013 %</b>	<b>-2.0373</b>	<b>0.86</b>	<b>0.14</b>
<a href="#">GO:0036294</a>	cellular response to decreased oxygen levels	0.129 %	-1.0248	0.85	0.85
<a href="#">GO:0034059</a>	response to anoxia	0.030 %	-1.5641	0.90	0.69
<a href="#">GO:0071453</a>	cellular response to oxygen levels	0.129 %	-1.0248	0.85	0.88
<a href="#">GO:0010467</a>	<b>gene expression</b>	<b>18.304 %</b>	<b>-1.0488</b>	<b>0.91</b>	<b>0.16</b>
<a href="#">GO:0065008</a>	<b>regulation of biological quality</b>	<b>5.991 %</b>	<b>-1.1458</b>	<b>0.84</b>	<b>0.17</b>
<a href="#">GO:0051301</a>	<b>cell division</b>	<b>1.528 %</b>	<b>-1.3855</b>	<b>0.83</b>	<b>0.17</b>
<a href="#">GO:0035445</a>	<b>borate transmembrane transport</b>	<b>0.017 %</b>	<b>-1.8389</b>	<b>0.96</b>	<b>0.21</b>
<a href="#">GO:0098661</a>	inorganic anion transmembrane transport	0.203 %	-1.7757	0.96	0.72
<a href="#">GO:0046713</a>	borate transport	0.022 %	-1.8389	0.96	0.62
<a href="#">GO:0080110</a>	<b>sporopollenin biosynthetic process</b>	<b>0.030 %</b>	<b>-3.6674</b>	<b>0.66</b>	<b>0.23</b>
<a href="#">GO:0010208</a>	pollen wall assembly	0.164 %	-1.9264	0.68	0.98
<a href="#">GO:0010927</a>	cellular component assembly involved in morphogenesis	0.168 %	-1.9264	0.71	0.67
<a href="#">GO:0010152</a>	pollen maturation	0.069 %	-1.0653	0.79	0.69
<a href="#">GO:0085029</a>	extracellular matrix assembly	0.164 %	-1.9264	0.82	0.97
<a href="#">GO:0009555</a>	pollen development	1.230 %	-2.5786	0.74	0.65
<a href="#">GO:0010584</a>	pollen exine formation	0.121 %	-2.3049	0.68	0.86
<a href="#">GO:0030198</a>	extracellular matrix organization	0.233 %	-1.7760	0.82	0.95
<a href="#">GO:0010093</a>	specification of floral organ identity	0.056 %	-1.2993	0.73	0.70
<a href="#">GO:0090701</a>	specification of plant organ identity	0.060 %	-1.2993	0.77	0.73
<a href="#">GO:0048449</a>	floral organ formation	0.104 %	-1.0346	0.72	0.88
<a href="#">GO:0007064</a>	<b>mitotic sister chromatid cohesion</b>	<b>0.095 %</b>	<b>-2.3374</b>	<b>0.80</b>	<b>0.23</b>
<a href="#">GO:0000278</a>	mitotic cell cycle	1.152 %	-1.3069	0.79	0.84
<a href="#">GO:0098813</a>	nuclear chromosome segregation	0.436 %	-1.0479	0.79	0.92
<a href="#">GO:0044772</a>	mitotic cell cycle phase transition	0.190 %	-1.2808	0.80	0.91
<a href="#">GO:0044770</a>	cell cycle phase transition	0.207 %	-1.2808	0.81	0.70
<a href="#">GO:0000070</a>	mitotic sister chromatid segregation	0.207 %	-1.4686	0.79	0.94
<a href="#">GO:0000082</a>	G1/S transition of mitotic cell cycle	0.052 %	-1.7382	0.83	0.83
<a href="#">GO:0007062</a>	sister chromatid cohesion	0.186 %	-1.5409	0.79	0.88
<a href="#">GO:0044843</a>	cell cycle G1/S phase transition	0.069 %	-1.7382	0.82	0.56
<a href="#">GO:0000819</a>	sister chromatid segregation	0.285 %	-1.2573	0.78	0.89
<a href="#">GO:1903047</a>	mitotic cell cycle process	1.083 %	-1.3846	0.78	0.83
<a href="#">GO:0022402</a>	cell cycle process	1.713 %	-1.6233	0.78	0.65
<a href="#">GO:0009605</a>	<b>response to external stimulus</b>	<b>6.366 %</b>	<b>-2.5147</b>	<b>0.90</b>	<b>0.23</b>
<a href="#">GO:0032922</a>	<b>circadian regulation of gene expression</b>	<b>0.017 %</b>	<b>-1.7382</b>	<b>0.75</b>	<b>0.24</b>
<a href="#">GO:0007623</a>	circadian rhythm	0.539 %	-1.0132	0.98	0.73
<a href="#">GO:0009739</a>	<b>response to gibberellin</b>	<b>0.626 %</b>	<b>-1.8672</b>	<b>0.90</b>	<b>0.26</b>
<a href="#">GO:0009741</a>	response to brassinosteroid	0.410 %	-1.2570	0.90	0.63
<a href="#">GO:0009735</a>	response to cytokinin	1.010 %	-1.3086	0.90	0.52
<a href="#">GO:0043062</a>	<b>extracellular structure organization</b>	<b>0.233 %</b>	<b>-1.7760</b>	<b>0.84</b>	<b>0.27</b>
<a href="#">GO:0010036</a>	<b>response to boron-containing substance</b>	<b>0.022 %</b>	<b>-1.4323</b>	<b>0.93</b>	<b>0.27</b>
<a href="#">GO:0002164</a>	larval development	0.009 %	-6.3917	0.82	0.29
<a href="#">GO:0007049</a>	cell cycle	2.525 %	-1.2040	0.82	0.29
<a href="#">GO:0050793</a>	regulation of developmental process	2.577 %	-2.4836	0.68	0.31
<a href="#">GO:0048518</a>	positive regulation of biological process	4.398 %	-1.3474	0.82	0.32



<a href="#">GO:0009821</a>	alkaloid biosynthetic process	0.795 %	-3.4473	0.84	0.32
<a href="#">GO:0051239</a>	regulation of multicellular organismal process	1.972 %	-2.3949	0.73	0.32
<a href="#">GO:0044707</a>	single-multicellular organism process	10.699 %	-4.7191	0.76	0.86
<a href="#">GO:0044702</a>	single organism reproductive process	5.939 %	-2.6020	0.81	0.86
<a href="#">GO:0003006</a>	developmental process involved in reproduction	5.611 %	-1.7334	0.74	0.89
<a href="#">GO:0090567</a>	reproductive shoot system development	2.110 %	-1.0928	0.68	0.84
<a href="#">GO:0044767</a>	single-organism developmental process	12.123 %	-4.5934	0.72	0.82
<a href="#">GO:0048359</a>	mucilage metabolic process involved in seed coat development	0.086 %	-1.2748	0.73	0.58
<a href="#">GO:0048856</a>	anatomical structure development	11.722 %	-4.5158	0.77	0.85
<a href="#">GO:0048316</a>	seed development	2.305 %	-1.0762	0.68	0.85
<a href="#">GO:0009791</a>	post-embryonic development	5.848 %	-3.6742	0.71	0.78
<a href="#">GO:0048608</a>	reproductive structure development	4.674 %	-2.2969	0.67	0.55
<a href="#">GO:0048869</a>	cellular developmental process	4.148 %	-1.4296	0.69	0.59
<a href="#">GO:0007275</a>	multicellular organism development	10.423 %	-4.8876	0.69	0.75
<a href="#">GO:0022414</a>	reproductive process	6.629 %	-2.7608	0.89	0.91
<a href="#">GO:0048229</a>	gametophyte development	1.653 %	-2.0427	0.75	0.57
<a href="#">GO:0061458</a>	reproductive system development	4.674 %	-2.2969	0.71	0.80
<a href="#">GO:0048731</a>	system development	7.225 %	-2.4370	0.70	0.82
<a href="#">GO:0080119</a>	ER body organization	0.017 %	-1.7207	0.93	0.33
<a href="#">GO:0080001</a>	mucilage extrusion from seed coat	0.022 %	-1.3322	0.78	0.34
<a href="#">GO:0009956</a>	radial pattern formation	0.078 %	-1.0798	0.79	0.35
<a href="#">GO:0009607</a>	response to biotic stimulus	5.158 %	-1.7735	0.91	0.35
<a href="#">GO:0042436</a>	indole-containing compound catabolic process	0.039 %	-1.2689	0.88	0.35
<a href="#">GO:0045229</a>	external encapsulating structure organization	2.577 %	-1.3301	0.91	0.36
<a href="#">GO:0043433</a>	negative regulation of sequence-specific DNA binding transcription factor activity	0.022 %	-1.3755	0.80	0.39
<a href="#">GO:0051782</a>	negative regulation of cell division	0.022 %	-1.5298	0.79	0.39
<a href="#">GO:0008356</a>	asymmetric cell division	0.091 %	-1.1350	0.86	0.53
<a href="#">GO:0019685</a>	photosynthesis, dark reaction	0.086 %	-1.7566	0.82	0.39
<a href="#">GO:1901672</a>	positive regulation of systemic acquired resistance	0.017 %	-2.5131	0.78	0.39
<a href="#">GO:0010112</a>	regulation of systemic acquired resistance	0.082 %	-1.3391	0.76	0.83
<a href="#">GO:0032103</a>	positive regulation of response to external stimulus	0.108 %	-1.8869	0.75	0.74
<a href="#">GO:0002833</a>	positive regulation of response to biotic stimulus	0.095 %	-2.2706	0.77	0.74
<a href="#">GO:0048878</a>	chemical homeostasis	1.765 %	-1.3780	0.81	0.41
<a href="#">GO:0055080</a>	cation homeostasis	1.083 %	-1.2266	0.81	0.92
<a href="#">GO:0055072</a>	iron ion homeostasis	0.237 %	-1.0346	0.84	0.83
<a href="#">GO:0055065</a>	metal ion homeostasis	0.842 %	-1.2775	0.82	0.80
<a href="#">GO:0030104</a>	water homeostasis	0.052 %	-1.1435	0.86	0.61
<a href="#">GO:0050801</a>	ion homeostasis	1.299 %	-1.0427	0.81	0.87
<a href="#">GO:0098771</a>	inorganic ion homeostasis	1.139 %	-1.1339	0.81	0.95
<a href="#">GO:0043902</a>	positive regulation of multi-organism process	0.017 %	-2.2706	0.87	0.41
<a href="#">GO:0006355</a>	regulation of transcription, DNA-templated	11.234 %	-2.5703	0.64	0.42
<a href="#">GO:0032774</a>	RNA biosynthetic process	11.813 %	-2.5374	0.78	0.82
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %	-2.0641	0.72	0.82
<a href="#">GO:0010468</a>	regulation of gene expression	12.706 %	-2.4618	0.71	0.79
<a href="#">GO:0031323</a>	regulation of cellular metabolic process	13.906 %	-2.3439	0.70	0.80
<a href="#">GO:0018130</a>	heterocycle biosynthetic process	14.014 %	-1.7028	0.81	0.58
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %	-1.8367	0.66	0.87
<a href="#">GO:0051252</a>	regulation of RNA metabolic process	11.463 %	-2.4910	0.65	0.87
<a href="#">GO:2001141</a>	regulation of RNA biosynthetic process	11.282 %	-2.5703	0.64	0.88
<a href="#">GO:0019219</a>	regulation of nucleobase-containing compound metabolic process	11.700 %	-2.3820	0.66	0.84
<a href="#">GO:0016070</a>	RNA metabolic process	17.562 %	-1.5479	0.81	0.66
<a href="#">GO:2000112</a>	regulation of cellular macromolecule biosynthetic process	12.003 %	-2.1394	0.65	0.86
<a href="#">GO:0044249</a>	cellular biosynthetic process	22.844 %	-1.1217	0.82	0.66
<a href="#">GO:0044271</a>	cellular nitrogen compound biosynthetic process	17.018 %	-1.5889	0.80	0.61
<a href="#">GO:0006351</a>	transcription, DNA-templated	11.709 %	-2.5374	0.77	0.87
<a href="#">GO:0060255</a>	regulation of macromolecule metabolic process	14.091 %	-2.0454	0.72	0.83
<a href="#">GO:0019222</a>	regulation of metabolic process	14.847 %	-2.4563	0.77	0.52
<a href="#">GO:0050794</a>	regulation of cellular process	22.244 %	-1.5297	0.74	0.63
<a href="#">GO:1903506</a>	regulation of nucleic acid-templated transcription	11.282 %	-2.5703	0.64	0.89
<a href="#">GO:0050789</a>	regulation of biological process	24.333 %	-1.1311	0.80	0.54
<a href="#">GO:0097659</a>	nucleic acid-templated transcription	11.761 %	-2.5374	0.77	0.88
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-2.3186	0.69	0.76
<a href="#">GO:0019438</a>	aromatic compound biosynthetic process	14.247 %	-2.5099	0.81	0.55
<a href="#">GO:0010556</a>	regulation of macromolecule biosynthetic process	12.076 %	-2.1302	0.68	0.86
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-1.2524	0.84	0.55
<a href="#">GO:0034654</a>	nucleobase-containing compound biosynthetic process	13.056 %	-2.1014	0.78	0.80
<a href="#">GO:0051171</a>	regulation of nitrogen compound metabolic process	12.430 %	-1.9547	0.70	0.78
<a href="#">GO:0045165</a>	cell fate commitment	0.341 %	-2.2626	0.73	0.44
<a href="#">GO:0010103</a>	stomatal complex morphogenesis	0.125 %	-1.2039	0.75	0.89
<a href="#">GO:0048646</a>	anatomical structure formation involved in morphogenesis	0.755 %	-1.3877	0.80	0.54

<a href="#">GO:0010052</a>	<i>guard cell differentiation</i>	0.082 %	-1.6282	0.71	0.51
<a href="#">GO:0019760</a>	<b>glucosinolate metabolic process</b>	<b>0.514 %</b>	<b>-1.8286</b>	<b>0.75</b>	<b>0.45</b>
<a href="#">GO:0019757</a>	<i>glucosinolate metabolic process</i>	0.514 %	-1.8286	0.75	0.99
<a href="#">GO:0042344</a>	<i>indole glucosinolate catabolic process</i>	0.017 %	-1.2748	0.79	0.75
<a href="#">GO:0042343</a>	<i>indole glucosinolate metabolic process</i>	0.125 %	-1.1266	0.76	0.88
<a href="#">GO:0009804</a>	<i>coumarin metabolic process</i>	0.017 %	-1.5084	0.82	0.55
<a href="#">GO:0044273</a>	<i>sulfur compound catabolic process</i>	0.173 %	-1.1478	0.89	0.72
<a href="#">GO:0016145</a>	<i>S-glycoside catabolic process</i>	0.104 %	-1.2748	0.79	0.86
<a href="#">GO:0016143</a>	<i>S-glycoside metabolic process</i>	0.514 %	-1.1266	0.78	0.80
<a href="#">GO:1901658</a>	<i>glycosyl compound catabolic process</i>	0.211 %	-1.0185	0.84	0.87
<a href="#">GO:0048863</a>	<b>stem cell differentiation</b>	<b>0.013 %</b>	<b>-2.2128</b>	<b>0.79</b>	<b>0.45</b>
<a href="#">GO:0009625</a>	<b>response to insect</b>	<b>0.108 %</b>	<b>-1.3057</b>	<b>0.89</b>	<b>0.45</b>
<a href="#">GO:0051090</a>	<b>regulation of sequence-specific DNA binding transcription factor activity</b>	<b>0.052 %</b>	<b>-1.2351</b>	<b>0.79</b>	<b>0.45</b>
<a href="#">GO:0031669</a>	<b>cellular response to nutrient levels</b>	<b>0.557 %</b>	<b>-1.8583</b>	<b>0.81</b>	<b>0.47</b>
<a href="#">GO:0009267</a>	<i>cellular response to starvation</i>	0.496 %	-1.1835	0.81	0.96
<a href="#">GO:0016036</a>	<i>cellular response to phosphate starvation</i>	0.259 %	-1.4636	0.82	0.90
<a href="#">GO:0080029</a>	<i>cellular response to boron-containing substance levels</i>	0.017 %	-1.4323	0.84	0.72
<a href="#">GO:0042594</a>	<i>response to starvation</i>	0.531 %	-1.1496	0.85	0.96
<a href="#">GO:0031668</a>	<i>cellular response to extracellular stimulus</i>	0.691 %	-1.6053	0.81	0.97
<a href="#">GO:0031667</a>	<i>response to nutrient levels</i>	0.639 %	-1.6719	0.85	0.94
<a href="#">GO:0001709</a>	<b>cell fate determination</b>	<b>0.030 %</b>	<b>-2.0373</b>	<b>0.76</b>	<b>0.48</b>
<a href="#">GO:0010158</a>	<i>abaxial cell fate specification</i>	0.030 %	-1.6876	0.76	0.70
<a href="#">GO:0048867</a>	<i>stem cell fate determination</i>	0.004 %	-2.2128	0.79	0.62
<a href="#">GO:0048865</a>	<i>stem cell fate commitment</i>	0.004 %	-2.2128	0.79	0.89
<a href="#">GO:0001708</a>	<i>cell fate specification</i>	0.134 %	-1.1225	0.74	0.77
<a href="#">GO:0045597</a>	<b>positive regulation of cell differentiation</b>	<b>0.030 %</b>	<b>-1.4070</b>	<b>0.68</b>	<b>0.48</b>
<a href="#">GO:2000022</a>	<b>regulation of jasmonic acid mediated signaling pathway</b>	<b>0.108 %</b>	<b>-1.4981</b>	<b>0.71</b>	<b>0.48</b>
<a href="#">GO:0031347</a>	<i>regulation of defense response</i>	0.971 %	-1.4275	0.75	0.80
<a href="#">GO:0010104</a>	<i>regulation of ethylene-activated signaling pathway</i>	0.095 %	-1.4070	0.71	0.65
<a href="#">GO:1902531</a>	<i>regulation of intracellular signal transduction</i>	0.229 %	-1.0513	0.71	0.69
<a href="#">GO:0070297</a>	<i>regulation of phosphorelay signal transduction system</i>	0.095 %	-1.4070	0.73	0.87
<a href="#">GO:0080134</a>	<i>regulation of response to stress</i>	1.351 %	-1.2963	0.74	0.64

Biological Process (99) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 34

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009269</a>	response to desiccation	0.073 %		-2.9070	0.87	0.00
<a href="#">GO:0035303</a>	regulation of dephosphorylation	0.060 %		-3.1718	0.73	0.00
<a href="#">GO:0035304</a>	<i>regulation of protein dephosphorylation</i>	0.047 %		-3.1993	0.71	0.95
<a href="#">GO:0019220</a>	<i>regulation of phosphate metabolic process</i>	0.561 %		-1.9076	0.69	0.82
<a href="#">GO:0010921</a>	<i>regulation of phosphatase activity</i>	0.035 %		-3.4776	0.71	0.67
<a href="#">GO:0043666</a>	<i>regulation of phosphoprotein phosphatase activity</i>	0.022 %		-3.5172	0.71	0.93
<a href="#">GO:0006470</a>	<i>protein dephosphorylation</i>	0.811 %		-1.7648	0.82	0.68
<a href="#">GO:0080163</a>	<i>regulation of protein serine/threonine phosphatase activity</i>	0.017 %		-3.6971	0.71	0.89
<a href="#">GO:0071705</a>	nitrogen compound transport	1.515 %		-2.4616	0.80	0.00
<a href="#">GO:0006811</a>	<i>ion transport</i>	4.174 %		-1.1988	0.78	0.52
<a href="#">GO:0071702</a>	<i>organic substance transport</i>	5.585 %		-1.3069	0.78	0.63
<a href="#">GO:0009808</a>	lignin metabolic process	0.285 %		-1.6633	0.84	0.06
<a href="#">GO:0009698</a>	<i>phenylpropanoid metabolic process</i>	0.505 %		-1.2376	0.83	0.69
<a href="#">GO:0015979</a>	photosynthesis	1.057 %		-1.1362	0.92	0.08
<a href="#">GO:0019048</a>	modulation by virus of host morphology or physiology	0.017 %		-1.6747	0.83	0.11
<a href="#">GO:0035821</a>	<i>modification of morphology or physiology of other organism</i>	1.385 %		-1.0076	0.81	0.51
<a href="#">GO:0051817</a>	<i>modification of morphology or physiology of other organism involved in symbiotic interaction</i>	0.129 %		-1.0423	0.83	0.72
<a href="#">GO:0044003</a>	<i>modification by symbiont of host morphology or physiology</i>	0.125 %		-1.0502	0.82	0.87
<a href="#">GO:0061062</a>	regulation of nematode larval development	0.009 %		-1.9502	0.79	0.13

<a href="#">GO:0002119</a>	<i>nematode larval development</i>	0.009 %	-1.9502	0.88	1.00
<a href="#">GO:0051336</a>	<b>regulation of hydrolase activity</b>	0.781 %	-2.1828	0.80	0.15
<a href="#">GO:0050790</a>	<i>regulation of catalytic activity</i>	2.257 %	-1.5180	0.79	0.84
<a href="#">GO:0009624</a>	<b>response to nematode</b>	0.306 %	-2.3066	0.90	0.15
<a href="#">GO:0045730</a>	<b>respiratory burst</b>	0.013 %	-1.5513	0.89	0.19
<a href="#">GO:0065009</a>	<b>regulation of molecular function</b>	2.443 %	-1.1796	0.82	0.21
<a href="#">GO:0023051</a>	<b>regulation of signaling</b>	1.126 %	-1.0520	0.79	0.22
<a href="#">GO:0042549</a>	<b>photosystem II stabilization</b>	0.030 %	-1.9280	0.79	0.22
<a href="#">GO:0042548</a>	<i>regulation of photosynthesis, light reaction</i>	0.108 %	-1.1008	0.77	0.90
<a href="#">GO:0043467</a>	<i>regulation of generation of precursor metabolites and energy</i>	0.117 %	-1.0582	0.78	0.56
<a href="#">GO:0009605</a>	<b>response to external stimulus</b>	6.366 %	-1.1270	0.89	0.23
<a href="#">GO:0043484</a>	<b>regulation of RNA splicing</b>	0.108 %	-2.0244	0.78	0.24
<a href="#">GO:0010646</a>	<b>regulation of cell communication</b>	1.139 %	-1.0476	0.77	0.24
<a href="#">GO:0001944</a>	<b>vasculature development</b>	0.108 %	-1.9280	0.87	0.25
<a href="#">GO:0072358</a>	<i>cardiovascular system development</i>	0.108 %	-1.9280	0.87	1.00
<a href="#">GO:0006521</a>	<b>regulation of cellular amino acid metabolic process</b>	0.060 %	-1.6869	0.72	0.26
<a href="#">GO:0033238</a>	<i>regulation of cellular amine metabolic process</i>	0.060 %	-1.5253	0.79	0.78
<a href="#">GO:0009395</a>	<b>phospholipid catabolic process</b>	0.052 %	-1.7391	0.79	0.28
<a href="#">GO:0002164</a>	<b>larval development</b>	0.009 %	-1.9502	0.90	0.29
<a href="#">GO:0009943</a>	<b>adaxial/abaxial axis specification</b>	0.108 %	-1.2519	0.88	0.30
<a href="#">GO:0009955</a>	<i>adaxial/abaxial pattern specification</i>	0.151 %	-1.0663	0.88	0.76
<a href="#">GO:0006979</a>	<b>response to oxidative stress</b>	1.908 %	-1.0381	0.90	0.30
<a href="#">GO:0046717</a>	<b>acid secretion</b>	0.026 %	-2.2734	0.78	0.31
<a href="#">GO:0051174</a>	<b>regulation of phosphorus metabolic process</b>	0.561 %	-1.9076	0.74	0.33
<a href="#">GO:0010358</a>	<b>leaf shaping</b>	0.035 %	-1.5790	0.89	0.33
<a href="#">GO:0010107</a>	<b>potassium ion import</b>	0.022 %	-1.3902	0.73	0.33
<a href="#">GO:0071805</a>	<i>potassium ion transmembrane transport</i>	0.319 %	-1.1192	0.69	0.81
<a href="#">GO:0071804</a>	<i>cellular potassium ion transport</i>	0.319 %	-1.1192	0.69	0.92
<a href="#">GO:0031399</a>	<b>regulation of protein modification process</b>	0.699 %	-1.7918	0.73	0.33
<a href="#">GO:0032268</a>	<i>regulation of cellular protein metabolic process</i>	1.921 %	-1.0617	0.71	0.85
<a href="#">GO:0042538</a>	<b>hyperosmotic salinity response</b>	0.220 %	-1.6934	0.90	0.35
<a href="#">GO:0006972</a>	<i>hyperosmotic response</i>	0.263 %	-1.5720	0.90	0.60
<a href="#">GO:0072359</a>	<b>circulatory system development</b>	0.108 %	-1.9280	0.88	0.36
<a href="#">GO:0042886</a>	<b>amide transport</b>	0.220 %	-2.4252	0.76	0.37
<a href="#">GO:0006868</a>	<i>glutamine transport</i>	0.026 %	-2.2734	0.70	0.57
<a href="#">GO:0015804</a>	<i>neutral amino acid transport</i>	0.086 %	-1.6085	0.69	0.77
<a href="#">GO:0006865</a>	<i>amino acid transport</i>	0.419 %	-1.0861	0.66	0.79
<a href="#">GO:0006857</a>	<i>oligopeptide transport</i>	0.155 %	-2.4363	0.75	0.66
<a href="#">GO:0015833</a>	<i>peptide transport</i>	0.177 %	-2.4363	0.75	0.95
<a href="#">GO:0015837</a>	<i>amine transport</i>	0.043 %	-2.2278	0.77	0.60
<a href="#">GO:0010585</a>	<i>glutamine secretion</i>	0.004 %	-2.2734	0.70	0.77
<a href="#">GO:0032890</a>	<i>regulation of organic acid transport</i>	0.030 %	-2.2278	0.64	0.61
<a href="#">GO:0030001</a>	<i>metal ion transport</i>	1.588 %	-1.2169	0.75	0.58
<a href="#">GO:0032973</a>	<i>amino acid export</i>	0.082 %	-1.7391	0.69	0.72
<a href="#">GO:0051955</a>	<i>regulation of amino acid transport</i>	0.030 %	-2.2278	0.61	1.00
<a href="#">GO:0080143</a>	<i>regulation of amino acid export</i>	0.030 %	-2.2278	0.61	0.67
<a href="#">GO:0051952</a>	<i>regulation of amine transport</i>	0.030 %	-2.2278	0.65	0.96
<a href="#">GO:0007584</a>	<b>response to nutrient</b>	0.047 %	-1.3127	0.89	0.38
<a href="#">GO:0031667</a>	<i>response to nutrient levels</i>	0.639 %	-1.1175	0.89	0.76
<a href="#">GO:0006606</a>	<b>protein import into nucleus</b>	0.242 %	-1.2184	0.70	0.39
<a href="#">GO:1902593</a>	<i>single-organism nuclear import</i>	0.242 %	-1.2184	0.72	0.99
<a href="#">GO:0015849</a>	<i>organic acid transport</i>	0.682 %	-1.0861	0.72	0.51
<a href="#">GO:0044744</a>	<i>protein targeting to nucleus</i>	0.246 %	-1.2184	0.75	0.98
<a href="#">GO:0034504</a>	<i>protein localization to nucleus</i>	0.268 %	-1.1802	0.80	0.74
<a href="#">GO:0051170</a>	<i>nuclear import</i>	0.246 %	-1.1554	0.79	0.89
<a href="#">GO:0006102</a>	<b>isocitrate metabolic process</b>	0.043 %	-1.5886	0.86	0.39
<a href="#">GO:0009789</a>	<b>positive regulation of abscisic acid-activated signaling pathway</b>	0.147 %	-2.2336	0.63	0.41
<a href="#">GO:0023056</a>	<i>positive regulation of signaling</i>	0.332 %	-1.8356	0.72	0.73
<a href="#">GO:0097306</a>	<i>cellular response to alcohol</i>	1.170 %	-1.1078	0.80	0.80
<a href="#">GO:0009738</a>	<i>abscisic acid-activated signaling pathway</i>	1.062 %	-1.3011	0.62	0.79
<a href="#">GO:0048584</a>	<i>positive regulation of response to stimulus</i>	0.902 %	-1.1796	0.71	0.69
<a href="#">GO:0010647</a>	<i>positive regulation of cell communication</i>	0.350 %	-1.8095	0.74	0.73
<a href="#">GO:0071215</a>	<i>cellular response to abscisic acid stimulus</i>	1.170 %	-1.1078	0.79	0.98
<a href="#">GO:0009787</a>	<i>regulation of abscisic acid-activated signaling pathway</i>	0.350 %	-1.6064	0.61	0.93
<a href="#">GO:0009967</a>	<i>positive regulation of signal transduction</i>	0.332 %	-1.8356	0.64	0.93
<a href="#">GO:0009966</a>	<i>regulation of signal transduction</i>	1.109 %	-1.0608	0.62	0.87
<a href="#">GO:1901419</a>	<i>regulation of response to alcohol</i>	0.350 %	-1.6064	0.71	0.59
<a href="#">GO:1901421</a>	<i>positive regulation of response to alcohol</i>	0.147 %	-2.2336	0.70	0.86
<a href="#">GO:0010200</a>	<b>response to chitin</b>	0.544 %	-1.2013	0.86	0.44
<a href="#">GO:0016311</a>	<b>dephosphorylation</b>	1.515 %	-1.5267	0.86	0.44
<a href="#">GO:0072350</a>	<b>tricarboxylic acid metabolic process</b>	0.259 %	-1.5513	0.84	0.45
<a href="#">GO:0031323</a>	<b>regulation of cellular metabolic process</b>	13.906 %	-1.9446	0.68	0.47
<a href="#">GO:0080090</a>	<i>regulation of primary metabolic process</i>	13.681 %	-1.6022	0.70	0.82

REVIGO Output

L.G0:0060255	regulation of macromolecule metabolic process	14.091%	-1.1043	0.69	0.83
L.G0:0019222	regulation of metabolic process	14.847%	-1.6338	0.74	0.55
<b>G0:0046434</b>	<b>organophosphate catabolic process</b>	<b>0.112 %</b>	<b>-1.1950</b>	<b>0.88</b>	<b>0.49</b>
<b>G0:0009247</b>	<b>glycolipid biosynthetic process</b>	<b>0.250 %</b>	<b>-1.3552</b>	<b>0.81</b>	<b>0.49</b>
.G0:0046467	membrane lipid biosynthetic process	0.371%	-1.1913	0.81	0.91
.	glycolipid metabolic process	0.306%	-1.1192	0.81	0.98
L.	liposaccharide metabolic process	0.315%	-1.0719	0.84	0.56

Biological Process (154) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 35

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)*other organism involved in symbiotic interaction**interaction*

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0002376</a>	immune system process	1.532 %		-1.1001	0.99	0.00
<a href="#">GO:0010230</a>	alternative respiration	0.009 %		-3.1671	0.87	0.00
<i>GO:0009765</i>	<i>photosynthesis, light harvesting</i>	<i>0.160 %</i>		<i>-2.1623</i>	<i>0.92</i>	<i>0.53</i>
<i>GO:0019684</i>	<i>photosynthesis, light reaction</i>	<i>0.505 %</i>		<i>-1.3799</i>	<i>0.92</i>	<i>0.77</i>
<a href="#">GO:0052173</a>	response to defenses of other organism involved in symbiotic interaction	0.060 %		-2.7130	0.68	0.00
<i>GO:0052572</i>	<i>response to host immune response</i>	<i>0.056 %</i>		<i>-2.7130</i>	<i>0.63</i>	<i>1.00</i>
<i>GO:0052031</i>	<i>modulation by symbiont of host defense response</i>	<i>0.060 %</i>		<i>-2.7130</i>	<i>0.51</i>	<i>0.99</i>
<i>GO:0052308</i>	<i>pathogen-associated molecular pattern dependent modulation by organism of innate immune response in</i>	<i>0.043 %</i>		<i>-2.7883</i>	<i>0.50</i>	<i>1.00</i>
<i>GO:0052033</i>	<i>pathogen-associated molecular pattern dependent induction by symbiont of host innate immune response</i>	<i>0.043 %</i>		<i>-2.7883</i>	<i>0.48</i>	<i>0.83</i>
<i>GO:0052306</i>	<i>modulation by organism of innate immune response in other organism involved in symbiotic interaction</i>	<i>0.043 %</i>		<i>-2.7883</i>	<i>0.50</i>	<i>0.97</i>
<i>GO:0052305</i>	<i>positive regulation by organism of innate immune response in other organism involved in symbiotic</i>	<i>0.043 %</i>		<i>-2.7883</i>	<i>0.48</i>	<i>1.00</i>
<i>GO:0052553</i>	<i>modulation by symbiont of host immune response</i>	<i>0.056 %</i>		<i>-2.7130</i>	<i>0.49</i>	<i>1.00</i>
<i>GO:0052556</i>	<i>positive regulation by symbiont of host immune response</i>	<i>0.056 %</i>		<i>-2.7130</i>	<i>0.47</i>	<i>0.98</i>
<i>GO:0052555</i>	<i>positive regulation by organism of immune response of other organism involved in symbiotic interaction</i>	<i>0.056 %</i>		<i>-2.7130</i>	<i>0.48</i>	<i>1.00</i>
<i>GO:0035821</i>	<i>modification of morphology or physiology of other organism</i>	<i>1.385 %</i>		<i>-2.1999</i>	<i>0.70</i>	<i>0.56</i>
<i>GO:0052552</i>	<i>modulation by organism of immune response of other organism involved in symbiotic interaction</i>	<i>0.056 %</i>		<i>-2.7130</i>	<i>0.49</i>	<i>1.00</i>
<i>GO:0002684</i>	<i>positive regulation of immune system process</i>	<i>0.255 %</i>		<i>-1.6644</i>	<i>0.68</i>	<i>0.90</i>
<i>GO:0051701</i>	<i>interaction with host</i>	<i>0.177 %</i>		<i>-1.9930</i>	<i>0.74</i>	<i>0.84</i>

*other organism involved in symbiotic interaction*

<a href="#">GO:0009638</a>	phototropism	0.069 %	-1.2753	0.76	0.54
<a href="#">GO:0009646</a>	response to absence of light	0.142 %	-1.1730	0.82	0.57
<a href="#">GO:0071483</a>	cellular response to blue light	0.104 %	-1.1338	0.77	0.80
<a href="#">GO:0002682</a>	<b>regulation of immune system process</b>	<b>0.453 %</b>	<b>-1.3605</b>	<b>0.74</b>	<b>0.16</b>
<a href="#">GO:0045087</a>	innate immune response	1.364 %	-1.2284	0.69	0.85
<a href="#">GO:0006955</a>	immune response	1.398 %	-1.1994	0.72	0.96
<a href="#">GO:0043412</a>	macromolecule modification	15.900 %	-1.7600	0.94	0.17
<a href="#">GO:0032970</a>	regulation of actin filament-based process	0.194 %	-1.0879	0.73	0.19
<a href="#">GO:0010036</a>	response to boron-containing substance	0.022 %	-1.4838	0.87	0.22
<a href="#">GO:0065008</a>	regulation of biological quality	5.991 %	-1.3326	0.85	0.22
<a href="#">GO:0015700</a>	arsenite transport	0.022 %	-1.4752	0.96	0.23
<a href="#">GO:0046685</a>	response to arsenic-containing substance	0.060 %	-1.2547	0.86	0.23
<a href="#">GO:0030522</a>	intracellular receptor signaling pathway	0.078 %	-1.2399	0.75	0.23
<a href="#">GO:0009071</a>	serine family amino acid catabolic process	0.043 %	-1.5397	0.84	0.27
<a href="#">GO:0006546</a>	glycine catabolic process	0.030 %	-1.5397	0.84	0.75
<a href="#">GO:0006544</a>	glycine metabolic process	0.091 %	-1.2701	0.83	0.80
<a href="#">GO:1901606</a>	alpha-amino acid catabolic process	0.263 %	-1.0438	0.82	0.86
<a href="#">GO:0006400</a>	<b>tRNA modification</b>	<b>0.293 %</b>	<b>-1.3904</b>	<b>0.89</b>	<b>0.28</b>
<a href="#">GO:0008033</a>	tRNA processing	0.479 %	-1.0621	0.90	0.86
<a href="#">GO:0031334</a>	<b>positive regulation of protein complex assembly</b>	<b>0.190 %</b>	<b>-1.4423</b>	<b>0.65</b>	<b>0.29</b>
<a href="#">GO:0051495</a>	positive regulation of cytoskeleton organization	0.138 %	-1.3904	0.67	0.86
<a href="#">GO:0051493</a>	regulation of cytoskeleton organization	0.289 %	-1.0123	0.71	0.69
<a href="#">GO:0032271</a>	regulation of protein polymerization	0.186 %	-1.1120	0.70	0.92
<a href="#">GO:0032273</a>	positive regulation of protein polymerization	0.108 %	-1.4423	0.66	0.92
<a href="#">GO:0030832</a>	regulation of actin filament length	0.181 %	-1.0879	0.61	0.98
<a href="#">GO:0030833</a>	regulation of actin filament polymerization	0.164 %	-1.1120	0.58	0.95
<a href="#">GO:0010638</a>	positive regulation of organelle organization	0.207 %	-1.1648	0.67	0.89
<a href="#">GO:0045010</a>	actin nucleation	0.095 %	-1.4423	0.58	0.91
<a href="#">GO:0008064</a>	regulation of actin polymerization or depolymerization	0.181 %	-1.0879	0.61	0.99
<a href="#">GO:0044089</a>	positive regulation of cellular component biogenesis	0.246 %	-1.2497	0.70	0.85
<a href="#">GO:0032956</a>	regulation of actin cytoskeleton organization	0.194 %	-1.0879	0.66	0.99
<a href="#">GO:0030041</a>	actin filament polymerization	0.168 %	-1.0947	0.72	0.93
<a href="#">GO:0030838</a>	positive regulation of actin filament polymerization	0.095 %	-1.4423	0.58	0.98
<a href="#">GO:0043254</a>	regulation of protein complex assembly	0.298 %	-1.1120	0.69	0.89
<a href="#">GO:0016579</a>	<b>protein deubiquitination</b>	<b>0.246 %</b>	<b>-1.5298</b>	<b>0.91</b>	<b>0.32</b>
<a href="#">GO:0070646</a>	protein modification by small protein removal	0.328 %	-1.2807	0.90	0.51
<a href="#">GO:0080029</a>	cellular response to boron-containing substance levels	0.017 %	-1.4838	0.77	0.33
<a href="#">GO:0009743</a>	response to carbohydrate	0.518 %	-1.1397	0.83	0.37
<a href="#">GO:0044085</a>	cellular component biogenesis	5.783 %	-1.0047	0.88	0.38
<a href="#">GO:0009606</a>	tropism	0.341 %	-1.4067	0.80	0.39
<a href="#">GO:0051592</a>	response to calcium ion	0.052 %	-1.3569	0.86	0.40
<a href="#">GO:0009750</a>	response to fructose	0.069 %	-1.0321	0.85	0.41
<a href="#">GO:0006869</a>	<b>lipid transport</b>	<b>0.596 %</b>	<b>-1.1015</b>	<b>0.89</b>	<b>0.41</b>
<a href="#">GO:0072657</a>	protein localization to membrane	0.259 %	-1.0235	0.78	0.80
<a href="#">GO:0044765</a>	single-organism transport	5.287 %	-1.1946	0.87	0.68
<a href="#">GO:0006612</a>	protein targeting to membrane	0.168 %	-1.1049	0.78	0.96
<a href="#">GO:0090150</a>	establishment of protein localization to membrane	0.259 %	-1.0235	0.78	0.53
<a href="#">GO:0010105</a>	<b>negative regulation of ethylene-activated signaling pathway</b>	<b>0.073 %</b>	<b>-1.7557</b>	<b>0.60</b>	<b>0.42</b>
<a href="#">GO:0048584</a>	positive regulation of response to stimulus	0.902 %	-1.0760	0.62	0.69
<a href="#">GO:0010104</a>	regulation of ethylene-activated signaling pathway	0.095 %	-1.4584	0.61	0.98
<a href="#">GO:1902531</a>	regulation of intracellular signal transduction	0.229 %	-1.1015	0.62	0.67
<a href="#">GO:1902532</a>	negative regulation of intracellular signal transduction	0.091 %	-1.7557	0.61	0.85
<a href="#">GO:0070298</a>	negative regulation of phosphorelay signal transduction system	0.073 %	-1.7557	0.62	0.97
<a href="#">GO:0070297</a>	regulation of phosphorelay signal transduction system	0.095 %	-1.4584	0.63	0.87
<a href="#">GO:0031349</a>	positive regulation of defense response	0.341 %	-1.6499	0.61	0.56
<a href="#">GO:0070887</a>	<b>cellular response to chemical stimulus</b>	<b>5.287 %</b>	<b>-1.0632</b>	<b>0.75</b>	<b>0.45</b>
<a href="#">GO:0000724</a>	<b>double-strand break repair via homologous recombination</b>	<b>0.345 %</b>	<b>-1.4752</b>	<b>0.73</b>	<b>0.45</b>
<a href="#">GO:0006302</a>	double-strand break repair	0.483 %	-1.2547	0.73	0.77
<a href="#">GO:0036294</a>	cellular response to decreased oxygen levels	0.129 %	-1.0748	0.76	0.99
<a href="#">GO:0071456</a>	cellular response to hypoxia	0.117 %	-1.1155	0.74	0.51
<a href="#">GO:0071453</a>	cellular response to oxygen levels	0.129 %	-1.0748	0.77	0.87
<a href="#">GO:0000725</a>	recombinational repair	0.350 %	-1.4752	0.73	0.88
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.1488	0.89	0.46
<a href="#">GO:0090066</a>	regulation of anatomical structure size	0.319 %	-1.6173	0.80	0.46
<a href="#">GO:0031163</a>	metallo-sulfur cluster assembly	0.142 %	-1.1049	0.85	0.48
<a href="#">GO:0015846</a>	polyamine transport	0.026 %	-2.0549	0.91	0.49



Biological Process (176) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 36

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006629</a>	lipid metabolic process	4.683 %		-6.6071	0.77	0.00
<a href="#">GO:0009639</a>	response to red or far red light	0.872 %		-2.6760	0.90	0.00
<a href="#">GO:0010114</a>	<i>response to red light</i>	0.259 %		-2.1361	0.91	0.65
<a href="#">GO:0009314</a>	<i>response to radiation</i>	2.892 %		-1.1205	0.90	0.56
<a href="#">GO:0009640</a>	<i>photomorphogenesis</i>	0.311 %		-1.7915	0.73	0.80
<a href="#">GO:0009647</a>	<i>skotomorphogenesis</i>	0.026 %		-1.0529	0.77	0.54
<a href="#">GO:0009416</a>	<i>response to light stimulus</i>	2.771 %		-1.1341	0.89	0.83
<a href="#">GO:0009834</a>	plant-type secondary cell wall biogenesis	0.263 %		-1.4558	0.92	0.00
<a href="#">GO:0042546</a>	<i>cell wall biogenesis</i>	0.928 %		-1.0879	0.91	0.73
<a href="#">GO:0009832</a>	<i>plant-type cell wall biogenesis</i>	0.626 %		-1.2278	0.91	0.84
<a href="#">GO:0009828</a>	<i>plant-type cell wall loosening</i>	0.022 %		-1.4557	0.93	0.61
<a href="#">GO:0071669</a>	<i>plant-type cell wall organization or biogenesis</i>	1.152 %		-1.2117	0.93	0.64
<a href="#">GO:0032502</a>	developmental process	12.689 %		-1.0139	0.99	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-5.5944	0.99	0.00
<a href="#">GO:0048609</a>	multicellular organismal reproductive process	0.587 %		-2.3382	0.84	0.00
<a href="#">GO:0007292</a>	<i>female gamete generation</i>	0.022 %		-1.0222	0.80	0.75

<a href="#">GO:0007281</a>	<i>germ cell development</i>	0.004 %	-1.2561	0.76	0.67
<a href="#">GO:0007276</a>	<i>gamete generation</i>	0.203 %	-1.8290	0.77	0.89
<a href="#">GO:0022412</a>	<i>cellular process involved in reproduction in multicellular organism</i>	0.177 %	-1.9420	0.74	0.88
<a href="#">GO:0048235</a>	<i>pollen sperm cell differentiation</i>	0.147 %	-1.3031	0.70	0.87
<a href="#">GO:0048232</a>	<i>male gamete generation</i>	0.177 %	-1.1896	0.77	0.96
<a href="#">GO:0048477</a>	<i>oogenesis</i>	0.009 %	-1.2561	0.75	0.70
<a href="#">GO:0051179</a>	<b>localization</b>	<b>12.352 %</b>	<b>-1.3379</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0019079</a>	<b>viral genome replication</b>	<b>0.026 %</b>	<b>-1.0529</b>	<b>0.92</b>	<b>0.03</b>
<a href="#">GO:0019058</a>	<i>viral life cycle</i>	0.030 %	-1.0424	0.92	0.70
<a href="#">GO:0010166</a>	<b>wax metabolic process</b>	<b>0.082 %</b>	<b>-3.2121</b>	<b>0.96</b>	<b>0.05</b>
<a href="#">GO:0018149</a>	<b>peptide cross-linking</b>	<b>0.004 %</b>	<b>-4.4756</b>	<b>0.94</b>	<b>0.06</b>
<a href="#">GO:0009299</a>	<b>mRNA transcription</b>	<b>0.060 %</b>	<b>-2.5507</b>	<b>0.88</b>	<b>0.08</b>
<a href="#">GO:0009056</a>	<b>catabolic process</b>	<b>8.118 %</b>	<b>-2.1822</b>	<b>0.95</b>	<b>0.09</b>
<a href="#">GO:0009399</a>	<b>nitrogen fixation</b>	<b>0.017 %</b>	<b>-1.3780</b>	<b>0.95</b>	<b>0.12</b>
<a href="#">GO:0006869</a>	<b>lipid transport</b>	<b>0.596 %</b>	<b>-4.9527</b>	<b>0.78</b>	<b>0.12</b>
<a href="#">GO:0051234</a>	<i>establishment of localization</i>	11.817 %	-1.5918	0.85	0.86
<a href="#">GO:0006810</a>	<i>transport</i>	11.649 %	-1.7517	0.85	0.52
<a href="#">GO:0044765</a>	<i>single-organism transport</i>	5.287 %	-1.3510	0.74	0.74
<a href="#">GO:0015849</a>	<i>organic acid transport</i>	0.682 %	-1.3347	0.78	0.55
<a href="#">GO:0010876</a>	<i>lipid localization</i>	0.708 %	-4.3953	0.88	0.59
<a href="#">GO:1902578</a>	<i>single-organism localization</i>	5.481 %	-1.5892	0.77	0.73
<a href="#">GO:0010025</a>	<b>wax biosynthetic process</b>	<b>0.078 %</b>	<b>-2.2605</b>	<b>0.93</b>	<b>0.15</b>
<a href="#">GO:0018958</a>	<b>phenol-containing compound metabolic process</b>	<b>0.190 %</b>	<b>-1.9393</b>	<b>0.87</b>	<b>0.16</b>
<a href="#">GO:0046189</a>	<i>phenol-containing compound biosynthetic process</i>	0.104 %	-1.9393	0.84	0.66
<a href="#">GO:0009807</a>	<i>lignan biosynthetic process</i>	0.022 %	-1.4282	0.73	0.95
<a href="#">GO:0009802</a>	<i>cinnamic acid ester biosynthetic process</i>	0.004 %	-1.6292	0.73	0.93
<a href="#">GO:0090431</a>	<i>alkyl caffeate ester biosynthetic process</i>	0.004 %	-1.6292	0.70	0.74
<a href="#">GO:1901599</a>	<i>(-)-pinosresinol biosynthetic process</i>	0.009 %	-1.6292	0.72	0.77
<a href="#">GO:1901598</a>	<i>(-)-pinosresinol metabolic process</i>	0.009 %	-1.5511	0.74	0.90
<a href="#">GO:0033494</a>	<i>ferulate metabolic process</i>	0.004 %	-1.6292	0.77	0.74
<a href="#">GO:0009712</a>	<i>catechol-containing compound metabolic process</i>	0.004 %	-1.6292	0.88	0.74
<a href="#">GO:0009713</a>	<i>catechol-containing compound biosynthetic process</i>	0.004 %	-1.6292	0.86	1.00
<a href="#">GO:0046688</a>	<b>response to copper ion</b>	<b>0.069 %</b>	<b>-2.4442</b>	<b>0.93</b>	<b>0.17</b>
<a href="#">GO:0009624</a>	<b>response to nematode</b>	<b>0.306 %</b>	<b>-2.5581</b>	<b>0.94</b>	<b>0.19</b>
<a href="#">GO:0010143</a>	<b>cutin biosynthetic process</b>	<b>0.091 %</b>	<b>-1.5998</b>	<b>0.91</b>	<b>0.20</b>
<a href="#">GO:0044710</a>	<b>single-organism metabolic process</b>	<b>18.390 %</b>	<b>-3.1820</b>	<b>0.83</b>	<b>0.21</b>
<a href="#">GO:0042401</a>	<b>cellular biogenic amine biosynthetic process</b>	<b>0.186 %</b>	<b>-1.6911</b>	<b>0.83</b>	<b>0.21</b>
<a href="#">GO:0006576</a>	<i>cellular biogenic amine metabolic process</i>	0.255 %	-1.2680	0.85	0.94
<a href="#">GO:0008295</a>	<i>spermidine biosynthetic process</i>	0.039 %	-1.0978	0.83	0.91
<a href="#">GO:0006597</a>	<i>spermine biosynthetic process</i>	0.026 %	-1.3126	0.83	0.86
<a href="#">GO:0008215</a>	<i>spermine metabolic process</i>	0.035 %	-1.3126	0.85	0.84
<a href="#">GO:0009309</a>	<i>amine biosynthetic process</i>	0.186 %	-1.6911	0.83	0.83
<a href="#">GO:0046219</a>	<i>indolalkylamine biosynthetic process</i>	0.095 %	-1.1352	0.82	0.96
<a href="#">GO:0000162</a>	<i>tryptophan biosynthetic process</i>	0.095 %	-1.1352	0.69	0.95
<a href="#">GO:0044106</a>	<i>cellular amine metabolic process</i>	0.306 %	-1.1117	0.85	0.87
<a href="#">GO:0006083</a>	<b>acetate metabolic process</b>	<b>0.009 %</b>	<b>-1.2741</b>	<b>0.80</b>	<b>0.22</b>
<a href="#">GO:0080175</a>	<b>phragmoplast microtubule organization</b>	<b>0.017 %</b>	<b>-1.3126</b>	<b>0.85</b>	<b>0.23</b>
<a href="#">GO:0031539</a>	<b>positive regulation of anthocyanin metabolic process</b>	<b>0.022 %</b>	<b>-1.4282</b>	<b>0.84</b>	<b>0.24</b>
<a href="#">GO:0048314</a>	<b>embryo sac morphogenesis</b>	<b>0.009 %</b>	<b>-2.1485</b>	<b>0.81</b>	<b>0.27</b>
<a href="#">GO:0055046</a>	<i>microgametogenesis</i>	0.216 %	-1.9126	0.79	0.52
<a href="#">GO:0010102</a>	<i>lateral root morphogenesis</i>	0.229 %	-1.3276	0.77	0.57
<a href="#">GO:0010101</a>	<i>post-embryonic root morphogenesis</i>	0.233 %	-1.3276	0.77	0.90
<a href="#">GO:0009553</a>	<i>embryo sac development</i>	0.565 %	-1.5088	0.78	0.71
<a href="#">GO:0048598</a>	<i>embryonic morphogenesis</i>	0.125 %	-1.8452	0.79	0.50
<a href="#">GO:0048646</a>	<i>anatomical structure formation involved in morphogenesis</i>	0.755 %	-1.0486	0.86	0.64
<a href="#">GO:0009886</a>	<i>post-embryonic animal morphogenesis</i>	0.526 %	-1.3780	0.77	0.54
<a href="#">GO:0010086</a>	<i>embryonic root morphogenesis</i>	0.013 %	-1.1485	0.81	0.73
<a href="#">GO:0080159</a>	<i>zygote elongation</i>	0.009 %	-1.3333	0.76	0.71
<a href="#">GO:0010015</a>	<i>root morphogenesis</i>	0.967 %	-1.1463	0.75	0.77
<a href="#">GO:1901362</a>	<b>organic cyclic compound biosynthetic process</b>	<b>14.769 %</b>	<b>-1.3049</b>	<b>0.86</b>	<b>0.28</b>
<a href="#">GO:0019438</a>	<i>aromatic compound biosynthetic process</i>	14.247 %	-1.2148	0.84	0.55
<a href="#">GO:0032456</a>	<b>endocytic recycling</b>	<b>0.022 %</b>	<b>-1.4557</b>	<b>0.91</b>	<b>0.28</b>
<a href="#">GO:0009739</a>	<b>response to gibberellin</b>	<b>0.626 %</b>	<b>-2.3286</b>	<b>0.89</b>	<b>0.30</b>
<a href="#">GO:0009742</a>	<i>brassinosteroid mediated signaling pathway</i>	0.306 %	-1.3661	0.77	0.72
<a href="#">GO:0009741</a>	<i>response to brassinosteroid</i>	0.410 %	-1.5143	0.88	0.63
<a href="#">GO:0009740</a>	<i>gibberellic acid mediated signaling pathway</i>	0.341 %	-2.0825	0.77	0.62
<a href="#">GO:0048545</a>	<i>response to steroid hormone</i>	0.306 %	-1.3661	0.89	0.72
<a href="#">GO:0010476</a>	<i>gibberellin mediated signaling pathway</i>	0.345 %	-1.9541	0.77	0.99
<a href="#">GO:0043401</a>	<i>steroid hormone mediated signaling pathway</i>	0.306 %	-1.3661	0.77	1.00
<a href="#">GO:0071367</a>	<i>cellular response to brassinosteroid stimulus</i>	0.315 %	-1.3629	0.85	0.95
<a href="#">GO:0071370</a>	<i>cellular response to gibberellin stimulus</i>	0.354 %	-1.8727	0.85	0.89
<a href="#">GO:0071383</a>	<i>cellular response to steroid hormone stimulus</i>	0.306 %	-1.3661	0.85	1.00

<a href="#">GO:0009653</a>	<b>anatomical structure morphogenesis</b>	<b>3.500 %</b>	<b>-1.3788</b>	<b>0.87</b>	<b>0.30</b>
<a href="#">GO:0044707</a>	<i>single-multicellular organism process</i>	10.699 %	-1.2096	0.75	0.86
<a href="#">GO:0044767</a>	<i>single-organism developmental process</i>	12.123 %	-1.1380	0.76	0.82
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-1.1259	0.86	0.85
<a href="#">GO:0007275</a>	<i>multicellular organism development</i>	10.423 %	-1.3504	0.72	0.67
<a href="#">GO:0048229</a>	<i>gametophyte development</i>	1.653 %	-1.1875	0.77	0.51
<a href="#">GO:0010076</a>	<b>maintenance of floral meristem identity</b>	<b>0.026 %</b>	<b>-1.2929</b>	<b>0.82</b>	<b>0.33</b>
<a href="#">GO:0010077</a>	<i>maintenance of inflorescence meristem identity</i>	0.039 %	-1.1623	0.82	0.80
<a href="#">GO:0009698</a>	<b>phenylpropanoid metabolic process</b>	<b>0.505 %</b>	<b>-4.5252</b>	<b>0.73</b>	<b>0.33</b>
<a href="#">GO:0009806</a>	<i>lignan metabolic process</i>	0.022 %	-1.4282	0.76	0.74
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	0.285 %	-1.1970	0.72	0.91
<a href="#">GO:0009801</a>	<i>cinnamic acid ester metabolic process</i>	0.009 %	-1.5511	0.77	0.53
<a href="#">GO:0009803</a>	<i>cinnamic acid metabolic process</i>	0.026 %	-1.2929	0.72	0.75
<a href="#">GO:0010345</a>	<i>suberin biosynthetic process</i>	0.060 %	-1.5844	0.72	0.80
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	1.183 %	-3.2758	0.72	0.80
<a href="#">GO:0009699</a>	<i>phenylpropanoid biosynthetic process</i>	0.337 %	-3.6263	0.69	0.70
<a href="#">GO:0046274</a>	<i>lignin catabolic process</i>	0.078 %	-2.7729	0.72	0.82
<a href="#">GO:0046271</a>	<i>phenylpropanoid catabolic process</i>	0.078 %	-2.6992	0.72	0.82
<a href="#">GO:0007034</a>	<b>vacuolar transport</b>	<b>0.293 %</b>	<b>-2.7556</b>	<b>0.89</b>	<b>0.35</b>
<a href="#">GO:0000914</a>	<b>phragmoplast assembly</b>	<b>0.009 %</b>	<b>-1.4023</b>	<b>0.84</b>	<b>0.35</b>
<a href="#">GO:1902407</a>	<i>assembly of actomyosin apparatus involved in mitotic cytokinesis</i>	0.009 %	-1.4023	0.84	1.00
<a href="#">GO:0000912</a>	<i>assembly of actomyosin apparatus involved in cytokinesis</i>	0.009 %	-1.4023	0.84	0.66
<a href="#">GO:0006557</a>	<b>S-adenosylmethioninamine biosynthetic process</b>	<b>0.017 %</b>	<b>-1.3780</b>	<b>0.75</b>	<b>0.35</b>
<a href="#">GO:0046499</a>	<i>S-adenosylmethioninamine metabolic process</i>	0.017 %	-1.3780	0.76	0.71
<a href="#">GO:0050982</a>	<b>detection of mechanical stimulus</b>	<b>0.017 %</b>	<b>-1.5168</b>	<b>0.93</b>	<b>0.36</b>
<a href="#">GO:0016042</a>	<b>lipid catabolic process</b>	<b>1.032 %</b>	<b>-4.1033</b>	<b>0.75</b>	<b>0.36</b>
<a href="#">GO:0010430</a>	<i>fatty acid omega-oxidation</i>	0.004 %	-1.5883	0.79	0.53
<a href="#">GO:0044712</a>	<i>single-organism catabolic process</i>	2.676 %	-2.9157	0.77	0.56
<a href="#">GO:0030148</a>	<i>sphingolipid biosynthetic process</i>	0.117 %	-1.0861	0.73	0.52
<a href="#">GO:0044255</a>	<i>cellular lipid metabolic process</i>	3.224 %	-1.4082	0.72	0.82
<a href="#">GO:0006631</a>	<i>fatty acid metabolic process</i>	1.101 %	-1.1619	0.71	0.71
<a href="#">GO:1901575</a>	<i>organic substance catabolic process</i>	7.402 %	-2.0523	0.90	0.74
<a href="#">GO:0046459</a>	<i>short-chain fatty acid metabolic process</i>	0.013 %	-1.2065	0.78	0.56
<a href="#">GO:0019432</a>	<i>triglyceride biosynthetic process</i>	0.104 %	-1.0030	0.75	0.53
<a href="#">GO:0008610</a>	<i>lipid biosynthetic process</i>	2.464 %	-2.5237	0.72	0.71
<a href="#">GO:0019605</a>	<i>butyrate metabolic process</i>	0.009 %	-1.2389	0.78	0.55
<a href="#">GO:0031408</a>	<i>oxylipin biosynthetic process</i>	0.099 %	-1.9272	0.73	0.65
<a href="#">GO:0031407</a>	<i>oxylipin metabolic process</i>	0.104 %	-2.8790	0.75	0.51
<a href="#">GO:0001944</a>	<b>vasculature development</b>	<b>0.108 %</b>	<b>-1.3333</b>	<b>0.80</b>	<b>0.37</b>
<a href="#">GO:0072358</a>	<i>cardiovascular system development</i>	0.108 %	-1.3333	0.80	1.00
<a href="#">GO:0072359</a>	<b>circulatory system development</b>	<b>0.108 %</b>	<b>-1.3333</b>	<b>0.81</b>	<b>0.37</b>
<a href="#">GO:0015669</a>	<b>gas transport</b>	<b>0.009 %</b>	<b>-1.4023</b>	<b>0.83</b>	<b>0.38</b>
<a href="#">GO:0015671</a>	<b>oxygen transport</b>	<b>0.009 %</b>	<b>-1.7826</b>	<b>0.83</b>	<b>0.38</b>
<a href="#">GO:0048859</a>	<b>formation of anatomical boundary</b>	<b>0.069 %</b>	<b>-1.4268</b>	<b>0.82</b>	<b>0.39</b>
<a href="#">GO:0019748</a>	<b>secondary metabolic process</b>	<b>1.938 %</b>	<b>-3.4503</b>	<b>0.80</b>	<b>0.39</b>
<a href="#">GO:0071456</a>	<b>cellular response to hypoxia</b>	<b>0.117 %</b>	<b>-1.4979</b>	<b>0.85</b>	<b>0.41</b>
<a href="#">GO:0036294</a>	<i>cellular response to decreased oxygen levels</i>	0.129 %	-1.4207	0.86	0.99
<a href="#">GO:0071453</a>	<i>cellular response to oxygen levels</i>	0.129 %	-1.4207	0.86	0.87
<a href="#">GO:1990267</a>	<b>response to transition metal nanoparticle</b>	<b>2.017 %</b>	<b>-1.2424</b>	<b>0.91</b>	<b>0.41</b>
<a href="#">GO:0006002</a>	<b>fructose 6-phosphate metabolic process</b>	<b>0.060 %</b>	<b>-1.0322</b>	<b>0.93</b>	<b>0.41</b>
<a href="#">GO:0051762</a>	<b>sesquiterpene biosynthetic process</b>	<b>0.009 %</b>	<b>-1.3333</b>	<b>0.78</b>	<b>0.42</b>
<a href="#">GO:0051761</a>	<i>sesquiterpene metabolic process</i>	0.009 %	-1.3333	0.81	0.78
<a href="#">GO:0006097</a>	<b>glyoxylate cycle</b>	<b>0.030 %</b>	<b>-1.0978</b>	<b>0.77</b>	<b>0.43</b>
<a href="#">GO:0046487</a>	<i>glyoxylate metabolic process</i>	0.035 %	-1.0747	0.78	0.72
<a href="#">GO:0006880</a>	<b>intracellular sequestering of iron ion</b>	<b>0.060 %</b>	<b>-2.1485</b>	<b>0.72</b>	<b>0.44</b>
<a href="#">GO:0055076</a>	<i>transition metal ion homeostasis</i>	0.678 %	-1.5757	0.92	0.76
<a href="#">GO:0055072</a>	<i>iron ion homeostasis</i>	0.237 %	-1.4392	0.92	0.86
<a href="#">GO:0051238</a>	<i>sequestering of metal ion</i>	0.104 %	-1.1623	0.86	0.81
<a href="#">GO:0097577</a>	<i>sequestering of iron ion</i>	0.060 %	-2.1485	0.74	0.93
<a href="#">GO:0048878</a>	<i>chemical homeostasis</i>	1.765 %	-1.0361	0.92	0.78
<a href="#">GO:0046916</a>	<i>cellular transition metal ion homeostasis</i>	0.505 %	-1.2299	0.77	0.92
<a href="#">GO:0080144</a>	<i>amino acid homeostasis</i>	0.060 %	-2.1013	0.93	0.58
<a href="#">GO:0043090</a>	<b>amino acid import</b>	<b>0.056 %</b>	<b>-1.7556</b>	<b>0.77</b>	<b>0.44</b>
<a href="#">GO:0015827</a>	<i>tryptophan transport</i>	0.004 %	-1.4023	0.80	0.62
<a href="#">GO:0015800</a>	<i>acidic amino acid transport</i>	0.035 %	-1.0529	0.78	0.71
<a href="#">GO:0015804</a>	<i>neutral amino acid transport</i>	0.086 %	-1.0222	0.76	0.79
<a href="#">GO:0015801</a>	<i>aromatic amino acid transport</i>	0.017 %	-1.4023	0.79	0.68
<a href="#">GO:0015802</a>	<i>basic amino acid transport</i>	0.035 %	-1.1099	0.78	0.71
<a href="#">GO:0006865</a>	<i>amino acid transport</i>	0.419 %	-1.3347	0.74	0.76
<a href="#">GO:1905039</a>	<i>carboxylic acid transmembrane transport</i>	0.505 %	-1.0747	0.74	0.92

<a href="#">GO:0015809</a>	<i>arginine transport</i>	0.017 %	-1.1224	0.79	0.68
<a href="#">GO:0015810</a>	<i>aspartate transport</i>	0.009 %	-1.4023	0.79	0.65
<a href="#">GO:0032973</a>	<i>amino acid export</i>	0.082 %	-1.1485	0.76	0.79
<a href="#">GO:1903825</a>	<i>organic acid transmembrane transport</i>	0.505 %	-1.0747	0.74	0.94
<a href="#">GO:0003333</a>	<i>amino acid transmembrane transport</i>	0.337 %	-1.0747	0.74	0.96
<a href="#">GO:0080160</a>	<i>selenate transport</i>	0.077 %	-1.2224	0.86	0.56
<a href="#">GO:0010540</a>	<b>basipetal auxin transport</b>	<b>0.078 %</b>	<b>-1.0635</b>	<b>0.78</b>	<b>0.45</b>
<a href="#">GO:0010440</a>	<b>stomatal lineage progression</b>	<b>0.069 %</b>	<b>-1.0424</b>	<b>0.76</b>	<b>0.47</b>
<a href="#">GO:0051607</a>	<b>defense response to virus</b>	<b>0.203 %</b>	<b>-1.3135</b>	<b>0.93</b>	<b>0.48</b>
<a href="#">GO:0034050</a>	<i>host programmed cell death induced by symbiont</i>	0.345 %	-1.1556	0.83	0.90
<a href="#">GO:0009626</a>	<i>plant-type hypersensitive response</i>	0.341 %	-1.2027	0.77	0.69
<a href="#">GO:0045490</a>	<b>pectin catabolic process</b>	<b>0.423 %</b>	<b>-2.1753</b>	<b>0.89</b>	<b>0.48</b>
<a href="#">GO:0000272</a>	<i>polysaccharide catabolic process</i>	0.777 %	-1.1425	0.89	0.85
<a href="#">GO:0010393</a>	<i>galacturonan metabolic process</i>	0.652 %	-1.6305	0.91	0.74
<a href="#">GO:0045488</a>	<i>pectin metabolic process</i>	0.647 %	-1.6553	0.91	0.95
<a href="#">GO:0044711</a>	<b>single-organism biosynthetic process</b>	<b>7.549 %</b>	<b>-2.2888</b>	<b>0.75</b>	<b>0.49</b>
<a href="#">GO:0032504</a>	<b>multicellular organism reproduction</b>	<b>0.613 %</b>	<b>-2.1875</b>	<b>0.87</b>	<b>0.49</b>
<a href="#">GO:0019953</a>	<b>sexual reproduction</b>	<b>0.596 %</b>	<b>-1.1425</b>	<b>0.92</b>	<b>0.50</b>

Biological Process (317) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 37

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

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term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000003</a>	reproduction	6.655 %		-5.1434	1.00	0.00
<a href="#">GO:0010228</a>	vegetative to reproductive phase transition of meristem	0.738 %		-14.0121	0.79	0.00
<a href="#">GO:0044702</a>	single organism reproductive process	5.939 %		-1.0706	0.85	0.91
<a href="#">GO:0099402</a>	plant organ development	3.763 %		-3.0494	0.78	0.77
<a href="#">GO:0003006</a>	developmental process involved in reproduction	5.611 %		-6.0271	0.81	0.85
<a href="#">GO:0010218</a>	response to far red light	0.250 %		-3.4949	0.82	0.80
<a href="#">GO:0048586</a>	regulation of long-day photoperiodism, flowering	0.086 %		-5.0892	0.59	0.86
<a href="#">GO:0048575</a>	short-day photoperiodism, flowering	0.056 %		-2.0330	0.70	0.83
<a href="#">GO:0048573</a>	photoperiodism, flowering	0.388 %		-8.1221	0.66	0.56
<a href="#">GO:0048574</a>	long-day photoperiodism, flowering	0.121 %		-4.4771	0.68	0.95
<a href="#">GO:0048579</a>	negative regulation of long-day photoperiodism, flowering	0.039 %		-1.2664	0.58	0.90
<a href="#">GO:0010114</a>	response to red light	0.259 %		-1.5411	0.82	0.80
<a href="#">GO:0048578</a>	positive regulation of long-day photoperiodism, flowering	0.030 %		-4.4790	0.57	0.89
<a href="#">GO:0048571</a>	long-day photoperiodism	0.138 %		-4.1257	0.82	0.90
<a href="#">GO:0048572</a>	short-day photoperiodism	0.056 %		-2.0330	0.83	0.83
<a href="#">GO:0048608</a>	reproductive structure development	4.674 %		-6.7611	0.75	0.73

GO:0009642	response to light intensity	0.587 %	-1.2463	0.81	0.71
GO:0009637	response to blue light	0.341 %	-3.5798	0.82	0.62
GO:0009639	response to red or far red light	0.872 %	-6.1335	0.81	0.68
GO:0010588	cotyledon vascular tissue pattern formation	0.060 %	-1.7225	0.80	0.91
GO:0009640	photomorphogenesis	0.311 %	-3.6917	0.69	0.62
GO:0009648	photoperiodism	0.427 %	-7.3960	0.82	0.63
GO:0010099	regulation of photomorphogenesis	0.104 %	-1.7806	0.60	0.74
GO:0010094	specification of carpel identity	0.013 %	-1.6493	0.81	0.77
GO:0048462	carpel formation	0.026 %	-1.3936	0.81	0.93
GO:0048467	gynoecium development	0.315 %	-1.6757	0.79	0.85
GO:0048466	androecium development	0.345 %	-1.2343	0.78	0.87
GO:0048440	carpel development	0.268 %	-1.9877	0.78	0.67
GO:0048443	stamen development	0.345 %	-1.2343	0.78	0.96
GO:0048445	carpel morphogenesis	0.035 %	-1.1228	0.81	0.83
GO:2000241	regulation of reproductive process	1.092 %	-1.0857	0.77	0.54
GO:0010016	shoot system morphogenesis	0.708 %	-2.7535	0.80	0.72
GO:2000028	regulation of photoperiodism, flowering	0.190 %	-5.8389	0.56	0.92
GO:2000030	regulation of response to red or far red light	0.134 %	-1.5648	0.71	0.76
GO:1905392	plant organ morphogenesis	1.485 %	-2.8498	0.79	0.77
GO:0060776	simple leaf morphogenesis	0.022 %	-2.7541	0.84	0.70
GO:0048825	cotyledon development	0.190 %	-2.5033	0.79	0.72
GO:0048826	cotyledon morphogenesis	0.073 %	-3.6638	0.80	0.77
GO:0048827	phyllome development	1.921 %	-4.3181	0.78	0.55
GO:0048367	shoot system development	3.599 %	-3.1138	0.79	0.76
GO:0048366	leaf development	1.368 %	-3.4228	0.78	0.79
GO:0048653	anther development	0.224 %	-1.7272	0.79	0.83
GO:0022414	reproductive process	6.629 %	-5.1933	0.90	0.90
GO:0090697	post-embryonic plant organ morphogenesis	0.419 %	-1.0121	0.80	0.77
GO:0009416	response to light stimulus	2.771 %	-4.5289	0.78	0.83
GO:0009965	leaf morphogenesis	0.380 %	-3.9672	0.80	0.67
GO:0061458	reproductive system development	4.674 %	-6.7611	0.78	0.80
<b>GO:0032501</b>	<b>multicellular organismal process</b>	<b>11.360 %</b>	<b>-3.8848</b>	<b>0.99</b>	<b>0.00</b>
<b>GO:0032502</b>	<b>developmental process</b>	<b>12.689 %</b>	<b>-5.3701</b>	<b>0.99</b>	<b>0.00</b>
<b>GO:0044699</b>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-2.3423</b>	<b>1.00</b>	<b>0.00</b>
<b>GO:0050896</b>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-4.6545</b>	<b>1.00</b>	<b>0.00</b>
<b>GO:0065007</b>	<b>biological regulation</b>	<b>28.554 %</b>	<b>-2.0868</b>	<b>1.00</b>	<b>0.00</b>
<b>GO:0071497</b>	<b>cellular response to freezing</b>	<b>0.013 %</b>	<b>-6.6798</b>	<b>0.83</b>	<b>0.00</b>
GO:0050826	response to freezing	0.086 %	-4.9007	0.85	0.51
GO:0070417	cellular response to cold	0.147 %	-3.6060	0.80	0.60
GO:0009409	response to cold	1.580 %	-2.4524	0.81	0.69
GO:0010286	heat acclimation	0.207 %	-1.0113	0.84	0.71
<b>GO:0031325</b>	<b>positive regulation of cellular metabolic process</b>	<b>2.741 %</b>	<b>-5.0993</b>	<b>0.66</b>	<b>0.03</b>
GO:0032774	RNA biosynthetic process	11.813 %	-6.1641	0.77	0.82
GO:0048522	positive regulation of cellular process	3.582 %	-3.1659	0.70	0.87
GO:0080090	regulation of primary metabolic process	13.681 %	-4.3820	0.69	0.80
GO:0031323	regulation of cellular metabolic process	13.906 %	-4.2593	0.67	0.83
GO:1902680	positive regulation of RNA biosynthetic process	1.869 %	-3.0297	0.62	0.97
GO:0052318	regulation of phytoalexin metabolic process	0.009 %	-1.5776	0.77	0.81
GO:0052319	regulation of phytoalexin biosynthetic process	0.009 %	-1.5776	0.75	1.00
GO:0052320	positive regulation of phytoalexin metabolic process	0.009 %	-1.5776	0.73	1.00
GO:0031328	positive regulation of cellular biosynthetic process	2.102 %	-3.3359	0.64	0.96
GO:0052322	positive regulation of phytoalexin biosynthetic process	0.009 %	-1.5776	0.71	1.00
GO:0031326	regulation of cellular biosynthetic process	12.339 %	-5.2050	0.64	0.87
GO:0051252	regulation of RNA metabolic process	11.463 %	-5.8767	0.63	0.87
GO:0051247	positive regulation of protein metabolic process	0.721 %	-2.0734	0.66	0.81
GO:2001141	regulation of RNA biosynthetic process	11.282 %	-6.0876	0.61	0.88
GO:0019219	regulation of nucleobase-containing compound metabolic process	11.700 %	-5.5871	0.65	0.84
GO:0051254	positive regulation of RNA metabolic process	1.912 %	-3.0297	0.64	0.96
GO:0016070	RNA metabolic process	17.562 %	-3.4690	0.80	0.66
GO:0045935	positive regulation of nucleobase-containing compound metabolic process	2.007 %	-2.9185	0.65	0.96
GO:0010628	positive regulation of gene expression	2.050 %	-2.8312	0.67	0.92
GO:0006355	regulation of transcription, DNA-templated	11.234 %	-6.0876	0.61	0.59
GO:0006351	transcription, DNA-templated	11.709 %	-6.1641	0.76	0.87
GO:0045893	positive regulation of transcription, DNA-templated	1.864 %	-3.0297	0.62	0.91
GO:1901182	regulation of camalexin biosynthetic process	0.009 %	-1.5776	0.74	1.00
GO:1901183	positive regulation of camalexin biosynthetic process	0.009 %	-1.5776	0.70	0.53
GO:0010604	positive regulation of macromolecule metabolic process	2.672 %	-4.4339	0.66	0.95
GO:0044550	secondary metabolite biosynthetic process	1.183 %	-1.1245	0.81	0.56

<a href="#">GO:0010556</a>	regulation of macromolecule biosynthetic process	12.076 %	-4.9208	0.64	0.87
<a href="#">GO:0010557</a>	positive regulation of macromolecule biosynthetic process	2.007 %	-2.7771	0.64	0.97
<a href="#">GO:0009699</a>	phenylpropanoid biosynthetic process	0.337 %	-1.0479	0.79	0.76
<a href="#">GO:2000243</a>	positive regulation of reproductive process	0.246 %	-1.4036	0.73	0.62
<a href="#">GO:0010468</a>	regulation of gene expression	12.706 %	-4.8311	0.67	0.79
<a href="#">GO:0043455</a>	regulation of secondary metabolic process	0.173 %	-1.0774	0.75	0.72
<a href="#">GO:2000112</a>	regulation of cellular macromolecule biosynthetic process	12.003 %	-4.9451	0.62	0.86
<a href="#">GO:0060255</a>	regulation of macromolecule metabolic process	14.091 %	-4.3352	0.67	0.82
<a href="#">GO:1903508</a>	positive regulation of nucleic acid-templated transcription	1.869 %	-3.0297	0.62	0.98
<a href="#">GO:1903506</a>	regulation of nucleic acid-templated transcription	11.282 %	-6.0876	0.61	0.89
<a href="#">GO:0097659</a>	nucleic acid-templated transcription	11.761 %	-6.1641	0.77	0.88
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-4.7330	0.69	0.84
<a href="#">GO:0009891</a>	positive regulation of biosynthetic process	2.145 %	-3.2938	0.66	0.93
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-5.5733	0.66	0.76
<a href="#">GO:1900378</a>	positive regulation of secondary metabolite biosynthetic process	0.017 %	-1.2989	0.71	0.79
<a href="#">GO:0051176</a>	positive regulation of sulfur metabolic process	0.035 %	-1.3936	0.75	0.81
<a href="#">GO:0051173</a>	positive regulation of nitrogen compound metabolic process	2.119 %	-3.3722	0.67	0.92
<a href="#">GO:0034654</a>	nucleobase-containing compound biosynthetic process	13.056 %	-4.9886	0.79	0.80
<a href="#">GO:0051171</a>	regulation of nitrogen compound metabolic process	12.430 %	-4.9981	0.68	0.78
<a href="#">GO:0034645</a>	cellular macromolecule biosynthetic process	16.737 %	-1.9372	0.78	0.74
<a href="#">GO:0010497</a>	plasmodesmata-mediated intercellular transport	0.056 %	-1.2510	0.95	0.04
<a href="#">GO:0009399</a>	nitrogen fixation	0.017 %	-1.4385	0.95	0.04
<a href="#">GO:0032259</a>	methylation	1.834 %	-2.2641	0.95	0.07
<a href="#">GO:0018027</a>	peptidyl-lysine dimethylation	0.022 %	-4.7774	0.83	0.07
<a href="#">GO:0034968</a>	histone lysine methylation	0.298 %	-2.9370	0.76	0.79
<a href="#">GO:0018205</a>	peptidyl-lysine modification	0.725 %	-1.9673	0.82	0.59
<a href="#">GO:0043414</a>	macromolecule methylation	0.928 %	-1.5106	0.83	0.60
<a href="#">GO:0016571</a>	histone methylation	0.354 %	-2.4738	0.77	0.97
<a href="#">GO:0018022</a>	peptidyl-lysine methylation	0.350 %	-2.9120	0.80	0.93
<a href="#">GO:0006479</a>	protein methylation	0.475 %	-2.2943	0.81	0.97
<a href="#">GO:0032196</a>	transposition	0.013 %	-3.7329	0.92	0.07
<a href="#">GO:0045490</a>	pectin catabolic process	0.423 %	-2.3459	0.91	0.09
<a href="#">GO:0000272</a>	polysaccharide catabolic process	0.777 %	-1.2897	0.90	0.85
<a href="#">GO:0045488</a>	pectin metabolic process	0.647 %	-1.1869	0.91	0.95
<a href="#">GO:0010393</a>	galacturonan metabolic process	0.652 %	-1.1687	0.91	0.74
<a href="#">GO:0009058</a>	biosynthetic process	24.432 %	-1.8317	0.93	0.10
<a href="#">GO:0016311</a>	dephosphorylation	1.515 %	-1.1687	0.91	0.11
<a href="#">GO:0042547</a>	cell wall modification involved in multidimensional cell growth	0.017 %	-2.3687	0.87	0.13
<a href="#">GO:0016049</a>	cell growth	1.519 %	-1.6947	0.87	0.60
<a href="#">GO:0045926</a>	negative regulation of growth	0.121 %	-1.6046	0.82	0.66
<a href="#">GO:0030308</a>	negative regulation of cell growth	0.043 %	-2.2510	0.73	0.50
<a href="#">GO:0009825</a>	multidimensional cell growth	0.091 %	-1.3881	0.90	0.64
<a href="#">GO:0030418</a>	nicotianamine biosynthetic process	0.022 %	-2.0855	0.83	0.13
<a href="#">GO:0072351</a>	tricarboxylic acid biosynthetic process	0.022 %	-2.0855	0.85	0.70
<a href="#">GO:0030417</a>	nicotianamine metabolic process	0.022 %	-2.0855	0.86	0.71
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-3.3843	0.81	0.14
<a href="#">GO:0071229</a>	cellular response to acid chemical	2.158 %	-1.6803	0.76	0.64
<a href="#">GO:0042542</a>	response to hydrogen peroxide	0.268 %	-1.1687	0.83	0.71
<a href="#">GO:0000302</a>	response to reactive oxygen species	0.678 %	-1.8188	0.82	0.51
<a href="#">GO:0033993</a>	response to lipid	3.267 %	-2.0806	0.80	0.58
<a href="#">GO:0071369</a>	cellular response to ethylene stimulus	0.906 %	-1.3490	0.77	0.65
<a href="#">GO:0009735</a>	response to cytokinin	1.010 %	-1.1509	0.82	0.56
<a href="#">GO:0009725</a>	response to hormone	6.871 %	-2.2697	0.78	0.82
<a href="#">GO:0009723</a>	response to ethylene	1.269 %	-3.3067	0.81	0.53
<a href="#">GO:0071495</a>	cellular response to endogenous stimulus	3.988 %	-2.2532	0.82	0.64
<a href="#">GO:0055078</a>	sodium ion homeostasis	0.030 %	-1.6120	0.90	0.15
<a href="#">GO:1901804</a>	beta-glucoside metabolic process	0.009 %	-1.4888	0.90	0.16
<a href="#">GO:1901038</a>	cyanidin 3-O-glucoside metabolic process	0.004 %	-1.4888	0.90	0.89
<a href="#">GO:0010467</a>	gene expression	18.304 %	-2.0632	0.88	0.17
<a href="#">GO:0010529</a>	negative regulation of transposition	0.009 %	-4.4790	0.80	0.18
<a href="#">GO:0010528</a>	regulation of transposition	0.009 %	-4.4790	0.83	0.96
<a href="#">GO:0046486</a>	glycerolipid metabolic process	0.764 %	-1.5620	0.84	0.21
<a href="#">GO:0009299</a>	mRNA transcription	0.060 %	-1.1819	0.87	0.21
<a href="#">GO:0043086</a>	negative regulation of catalytic activity	1.019 %	-1.9537	0.86	0.22
<a href="#">GO:0044092</a>	negative regulation of molecular function	1.070 %	-1.3026	0.86	0.79
<a href="#">GO:0009061</a>	anaerobic respiration	0.047 %	-1.2362	0.88	0.22
<a href="#">GO:0061647</a>	histone H3-K9 modification	0.069 %	-3.4701	0.81	0.23
<a href="#">GO:1902275</a>	regulation of chromatin organization	0.233 %	-2.9244	0.76	0.60
<a href="#">GO:0016570</a>	histone modification	0.893 %	-1.6278	0.78	0.89
<a href="#">GO:0016569</a>	covalent chromatin modification	1.273 %	-1.5308	0.79	0.77
<a href="#">GO:0051130</a>	positive regulation of cellular component organization	0.388 %	-2.3843	0.71	0.72

<a href="#">GO:0051129</a>	<i>negative regulation of cellular component organization</i>	0.211 %	-2.5617	0.74	0.68
<a href="#">GO:0033528</a>	<b>S-methylmethionine cycle</b>	<b>0.004 %</b>	<b>-1.7356</b>	<b>0.91</b>	<b>0.24</b>
<a href="#">GO:0045017</a>	<i>glycerolipid biosynthetic process</i>	0.445 %	-1.5089	0.80	0.65
<a href="#">GO:0006650</a>	<i>glycerophospholipid metabolic process</i>	0.613 %	-1.1372	0.83	0.92
<a href="#">GO:0046463</a>	<i>acylglycerol biosynthetic process</i>	0.117 %	-1.0257	0.81	0.99
<a href="#">GO:0046460</a>	<i>neutral lipid biosynthetic process</i>	0.117 %	-1.0257	0.82	0.96
<a href="#">GO:0006659</a>	<i>phosphatidylserine biosynthetic process</i>	0.009 %	-1.6120	0.83	0.65
<a href="#">GO:0006658</a>	<i>phosphatidylserine metabolic process</i>	0.009 %	-1.6120	0.85	0.60
<a href="#">GO:0019432</a>	<i>triglyceride biosynthetic process</i>	0.104 %	-1.0618	0.82	0.79
<a href="#">GO:0033477</a>	<i>S-methylmethionine metabolic process</i>	0.004 %	-1.7356	0.91	0.58
<a href="#">GO:0019438</a>	<b>aromatic compound biosynthetic process</b>	<b>14.247 %</b>	<b>-5.8421</b>	<b>0.82</b>	<b>0.24</b>
<a href="#">GO:0009059</a>	<i>macromolecule biosynthetic process</i>	17.035 %	-1.7388	0.82	0.66
<a href="#">GO:0044249</a>	<i>cellular biosynthetic process</i>	22.844 %	-1.7754	0.81	0.72
<a href="#">GO:0044271</a>	<i>cellular nitrogen compound biosynthetic process</i>	17.018 %	-2.7758	0.80	0.61
<a href="#">GO:1901576</a>	<i>organic substance biosynthetic process</i>	22.969 %	-2.2276	0.84	0.66
<a href="#">GO:0018130</a>	<i>heterocycle biosynthetic process</i>	14.014 %	-4.8683	0.81	0.58
<a href="#">GO:1901362</a>	<i>organic cyclic compound biosynthetic process</i>	14.769 %	-5.3327	0.83	0.55
<a href="#">GO:0006805</a>	<b>xenobiotic metabolic process</b>	<b>0.009 %</b>	<b>-1.4155</b>	<b>0.82</b>	<b>0.25</b>
<a href="#">GO:0042178</a>	<i>xenobiotic catabolic process</i>	0.004 %	-1.5164	0.82	0.96
<a href="#">GO:0071466</a>	<i>cellular response to xenobiotic stimulus</i>	0.009 %	-1.4155	0.84	0.96
<a href="#">GO:0010496</a>	<b>intercellular transport</b>	<b>0.073 %</b>	<b>-1.1339</b>	<b>0.95</b>	<b>0.26</b>
<a href="#">GO:0070483</a>	<b>detection of hypoxia</b>	<b>0.013 %</b>	<b>-1.6493</b>	<b>0.84</b>	<b>0.26</b>
<a href="#">GO:0003032</a>	<i>detection of oxygen</i>	0.013 %	-1.6493	0.85	0.78
<a href="#">GO:0034059</a>	<i>response to anoxia</i>	0.030 %	-1.1454	0.86	0.69
<a href="#">GO:0050832</a>	<b>defense response to fungus</b>	<b>2.236 %</b>	<b>-2.2386</b>	<b>0.83</b>	<b>0.26</b>
<a href="#">GO:0043207</a>	<i>response to external biotic stimulus</i>	4.981 %	-1.6884	0.83	0.94
<a href="#">GO:0051707</a>	<i>response to other organism</i>	4.968 %	-1.6884	0.83	0.85
<a href="#">GO:0009620</a>	<i>response to fungus</i>	2.521 %	-1.9622	0.84	0.76
<a href="#">GO:0098542</a>	<i>defense response to other organism</i>	4.044 %	-1.5038	0.82	0.92
<a href="#">GO:0023051</a>	<b>regulation of signaling</b>	<b>1.126 %</b>	<b>-2.0920</b>	<b>0.82</b>	<b>0.26</b>
<a href="#">GO:0035556</a>	<i>intracellular signal transduction</i>	3.112 %	-1.0175	0.63	0.55
<a href="#">GO:0010226</a>	<b>response to lithium ion</b>	<b>0.017 %</b>	<b>-1.3729</b>	<b>0.88</b>	<b>0.27</b>
<a href="#">GO:0043543</a>	<b>protein acylation</b>	<b>0.345 %</b>	<b>-2.8754</b>	<b>0.86</b>	<b>0.28</b>
<a href="#">GO:0010646</a>	<b>regulation of cell communication</b>	<b>1.139 %</b>	<b>-2.0801</b>	<b>0.80</b>	<b>0.29</b>
<a href="#">GO:0048583</a>	<b>regulation of response to stimulus</b>	<b>2.521 %</b>	<b>-3.5641</b>	<b>0.72</b>	<b>0.29</b>
<a href="#">GO:0051128</a>	<b>regulation of cellular component organization</b>	<b>1.467 %</b>	<b>-1.6322</b>	<b>0.77</b>	<b>0.30</b>
<a href="#">GO:1901983</a>	<b>regulation of protein acetylation</b>	<b>0.056 %</b>	<b>-4.3934</b>	<b>0.72</b>	<b>0.31</b>
<a href="#">GO:0032269</a>	<i>negative regulation of cellular protein metabolic process</i>	0.673 %	-1.8285	0.66	0.89
<a href="#">GO:0032270</a>	<i>positive regulation of cellular protein metabolic process</i>	0.699 %	-2.3843	0.64	0.92
<a href="#">GO:2000756</a>	<i>regulation of peptidyl-lysine acetylation</i>	0.056 %	-4.3934	0.70	1.00
<a href="#">GO:1900111</a>	<i>positive regulation of histone H3-K9 dimethylation</i>	0.017 %	-4.7774	0.64	0.89
<a href="#">GO:1900109</a>	<i>regulation of histone H3-K9 dimethylation</i>	0.022 %	-4.7774	0.68	0.99
<a href="#">GO:2000757</a>	<i>negative regulation of peptidyl-lysine acetylation</i>	0.039 %	-4.5709	0.68	1.00
<a href="#">GO:0031400</a>	<i>negative regulation of protein modification process</i>	0.220 %	-3.3937	0.68	0.72
<a href="#">GO:0018394</a>	<i>peptidyl-lysine acetylation</i>	0.263 %	-3.0427	0.80	0.96
<a href="#">GO:0031401</a>	<i>positive regulation of protein modification process</i>	0.337 %	-3.1897	0.64	0.83
<a href="#">GO:0018393</a>	<i>internal peptidyl-lysine acetylation</i>	0.263 %	-3.0427	0.80	1.00
<a href="#">GO:1901984</a>	<i>negative regulation of protein acetylation</i>	0.039 %	-4.5709	0.69	0.95
<a href="#">GO:0031060</a>	<i>regulation of histone methylation</i>	0.086 %	-4.1666	0.66	0.92
<a href="#">GO:0031057</a>	<i>negative regulation of histone modification</i>	0.047 %	-4.5709	0.66	0.95
<a href="#">GO:0031058</a>	<i>positive regulation of histone modification</i>	0.069 %	-4.5241	0.64	0.87
<a href="#">GO:0031056</a>	<i>regulation of histone modification</i>	0.134 %	-3.6389	0.66	0.88
<a href="#">GO:0031062</a>	<i>positive regulation of histone methylation</i>	0.047 %	-4.5241	0.63	0.94
<a href="#">GO:0051570</a>	<i>regulation of histone H3-K9 methylation</i>	0.039 %	-4.4790	0.67	0.87
<a href="#">GO:0051567</a>	<i>histone H3-K9 methylation</i>	0.065 %	-3.4701	0.78	0.96
<a href="#">GO:1905269</a>	<i>positive regulation of chromatin organization</i>	0.086 %	-4.2749	0.71	0.81
<a href="#">GO:0016573</a>	<i>histone acetylation</i>	0.263 %	-3.0427	0.75	0.86
<a href="#">GO:1905268</a>	<i>negative regulation of chromatin organization</i>	0.065 %	-3.8614	0.73	0.84
<a href="#">GO:0051574</a>	<i>positive regulation of histone H3-K9 methylation</i>	0.022 %	-4.6195	0.64	0.92
<a href="#">GO:0035065</a>	<i>regulation of histone acetylation</i>	0.056 %	-4.3934	0.65	0.98
<a href="#">GO:0035067</a>	<i>negative regulation of histone acetylation</i>	0.039 %	-4.5709	0.64	0.75
<a href="#">GO:0006473</a>	<i>protein acetylation</i>	0.319 %	-2.9887	0.83	0.97
<a href="#">GO:0006475</a>	<i>internal protein amino acid acetylation</i>	0.281 %	-3.0427	0.83	0.97
<a href="#">GO:0036123</a>	<i>histone H3-K9 dimethylation</i>	0.022 %	-4.7774	0.79	1.00
<a href="#">GO:0019748</a>	<b>secondary metabolic process</b>	<b>1.938 %</b>	<b>-1.0882</b>	<b>0.87</b>	<b>0.31</b>
<a href="#">GO:0009718</a>	<b>anthocyanin-containing compound biosynthetic process</b>	<b>0.121 %</b>	<b>-1.3682</b>	<b>0.84</b>	<b>0.32</b>
<a href="#">GO:0031540</a>	<i>regulation of anthocyanin biosynthetic process</i>	0.052 %	-1.0172	0.75	0.88
<a href="#">GO:0048518</a>	<b>positive regulation of biological process</b>	<b>4.398 %</b>	<b>-3.1028</b>	<b>0.81</b>	<b>0.32</b>
<a href="#">GO:0048016</a>	<b>inositol phosphate-mediated signaling</b>	<b>0.009 %</b>	<b>-1.2823</b>	<b>0.77</b>	<b>0.32</b>
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-3.5385</b>	<b>0.84</b>	<b>0.32</b>
<a href="#">GO:0010233</a>	<b>phloem transport</b>	<b>0.065 %</b>	<b>-1.9867</b>	<b>0.87</b>	<b>0.33</b>



<a href="#">GO:0008213</a>	protein alkylation	0.475 %	-2.2943	0.86	0.33
<a href="#">GO:0048519</a>	negative regulation of biological process	3.716 %	-1.5038	0.81	0.33
<a href="#">GO:0015669</a>	gas transport	0.009 %	-1.4629	0.94	0.33
<a href="#">GO:0015671</a>	oxygen transport	0.009 %	-1.8438	0.94	0.33
<a href="#">GO:0048510</a>	regulation of timing of transition from vegetative to reproductive phase	0.164 %	-5.6209	0.75	0.33
<a href="#">GO:0048509</a>	<i>regulation of meristem development</i>	0.445 %	-3.0728	0.73	0.78
<a href="#">GO:0048507</a>	<i>meristem development</i>	0.945 %	-2.1861	0.86	0.66
<a href="#">GO:0048506</a>	<i>regulation of timing of meristematic phase transition</i>	0.164 %	-5.6209	0.75	0.95
<a href="#">GO:0051240</a>	<i>positive regulation of multicellular organismal process</i>	0.401 %	-1.0834	0.68	0.78
<a href="#">GO:0048582</a>	<i>positive regulation of post-embryonic development</i>	0.319 %	-1.2565	0.65	0.79
<a href="#">GO:0048580</a>	<i>regulation of post-embryonic development</i>	1.303 %	-1.1494	0.66	0.68
<a href="#">GO:2000026</a>	<i>regulation of multicellular organismal development</i>	1.765 %	-1.0205	0.67	0.92
<a href="#">GO:0040034</a>	<i>regulation of development, heterochronic</i>	0.224 %	-5.0199	0.75	0.57
<a href="#">GO:0051094</a>	<i>positive regulation of developmental process</i>	0.436 %	-1.0012	0.68	0.73
<a href="#">GO:0032957</a>	inositol triphosphate metabolic process	0.035 %	-1.0257	0.87	0.34
<a href="#">GO:0034551</a>	mitochondrial respiratory chain complex III assembly	0.009 %	-1.5164	0.91	0.34
<a href="#">GO:0017062</a>	<i>respiratory chain complex III assembly</i>	0.009 %	-1.5164	0.91	0.70
<a href="#">GO:0033108</a>	<i>mitochondrial respiratory chain complex assembly</i>	0.117 %	-1.3343	0.89	0.61
<a href="#">GO:0010305</a>	leaf vascular tissue pattern formation	0.117 %	-1.3026	0.85	0.35
<a href="#">GO:0048598</a>	embryonic morphogenesis	0.125 %	-2.9977	0.84	0.35
<a href="#">GO:0009886</a>	<i>post-embryonic animal morphogenesis</i>	0.526 %	-1.4385	0.81	0.64
<a href="#">GO:0090698</a>	<i>post-embryonic plant morphogenesis</i>	0.716 %	-2.8963	0.85	0.56
<a href="#">GO:0009607</a>	response to biotic stimulus	5.158 %	-1.8815	0.85	0.36
<a href="#">GO:0009314</a>	response to radiation	2.892 %	-4.4364	0.81	0.37
<a href="#">GO:0009266</a>	<i>response to temperature stimulus</i>	2.287 %	-1.9463	0.81	0.64
<a href="#">GO:0080167</a>	<i>response to karrikin</i>	0.531 %	-2.0402	0.84	0.53
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-1.2079	0.84	0.38
<a href="#">GO:0010232</a>	vascular transport	0.065 %	-1.9867	0.87	0.38
<a href="#">GO:0071323</a>	cellular response to chitin	0.026 %	-1.3343	0.82	0.38
<a href="#">GO:0018193</a>	peptidyl-amino acid modification	1.813 %	-1.4587	0.84	0.38
<a href="#">GO:0010378</a>	temperature compensation of the circadian clock	0.004 %	-5.5160	0.80	0.39
<a href="#">GO:0042752</a>	<i>regulation of circadian rhythm</i>	0.220 %	-1.8906	0.86	0.64
<a href="#">GO:0009719</a>	response to endogenous stimulus	7.359 %	-2.1152	0.84	0.39
<a href="#">GO:0006863</a>	purine nucleobase transport	0.095 %	-1.2664	0.93	0.39
<a href="#">GO:0015851</a>	<i>nucleobase transport</i>	0.108 %	-1.2664	0.93	0.60
<a href="#">GO:0009647</a>	skotomorphogenesis	0.026 %	-5.8764	0.75	0.41
<a href="#">GO:0009646</a>	<i>response to absence of light</i>	0.142 %	-4.2066	0.83	0.69
<a href="#">GO:0072350</a>	tricarboxylic acid metabolic process	0.259 %	-1.0257	0.86	0.41
<a href="#">GO:0050793</a>	regulation of developmental process	2.577 %	-2.5900	0.71	0.42
<a href="#">GO:0044707</a>	<i>single-multicellular organism process</i>	10.699 %	-4.8706	0.82	0.86
<a href="#">GO:0044767</a>	<i>single-organism developmental process</i>	12.123 %	-4.0276	0.79	0.85
<a href="#">GO:0007275</a>	<i>multicellular organism development</i>	10.423 %	-5.0168	0.78	0.82
<a href="#">GO:0009653</a>	<i>anatomical structure morphogenesis</i>	3.500 %	-1.5566	0.85	0.51
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-5.1673	0.83	0.82
<a href="#">GO:0009791</a>	<i>post-embryonic development</i>	5.848 %	-6.0828	0.79	0.61
<a href="#">GO:0048731</a>	<i>system development</i>	7.225 %	-5.7964	0.78	0.74
<a href="#">GO:0019222</a>	regulation of metabolic process	14.847 %	-4.0866	0.75	0.43
<a href="#">GO:0050794</a>	<i>regulation of cellular process</i>	22.244 %	-1.2984	0.73	0.63
<a href="#">GO:0050789</a>	<i>regulation of biological process</i>	24.333 %	-1.5227	0.79	0.54
<a href="#">GO:0009554</a>	megasporogenesis	0.043 %	-1.2082	0.81	0.43
<a href="#">GO:0006979</a>	response to oxidative stress	1.908 %	-1.4675	0.85	0.43
<a href="#">GO:0042221</a>	response to chemical	12.434 %	-2.6902	0.83	0.43
<a href="#">GO:0048585</a>	negative regulation of response to stimulus	0.699 %	-4.1409	0.69	0.44
<a href="#">GO:0048523</a>	<i>negative regulation of cellular process</i>	2.719 %	-1.8321	0.74	0.74
<a href="#">GO:1901701</a>	<i>cellular response to oxygen-containing compound</i>	2.788 %	-1.5481	0.75	0.82
<a href="#">GO:0097306</a>	<i>cellular response to alcohol</i>	1.170 %	-1.6385	0.76	0.80
<a href="#">GO:0023057</a>	<i>negative regulation of signaling</i>	0.345 %	-4.4523	0.76	0.78
<a href="#">GO:0051248</a>	<i>negative regulation of protein metabolic process</i>	0.678 %	-1.8285	0.69	0.64
<a href="#">GO:0048584</a>	<i>positive regulation of response to stimulus</i>	0.902 %	-1.2263	0.65	0.74
<a href="#">GO:0010648</a>	<i>negative regulation of cell communication</i>	0.345 %	-4.4523	0.77	0.78
<a href="#">GO:0032870</a>	<i>cellular response to hormone stimulus</i>	3.871 %	-1.7452	0.73	0.79
<a href="#">GO:0071215</a>	<i>cellular response to abscisic acid stimulus</i>	1.170 %	-1.6385	0.75	0.98
<a href="#">GO:0071396</a>	<i>cellular response to lipid</i>	1.770 %	-1.3255	0.76	0.81
<a href="#">GO:0071310</a>	<i>cellular response to organic substance</i>	4.601 %	-1.6664	0.74	0.88
<a href="#">GO:0031399</a>	<i>regulation of protein modification process</i>	0.699 %	-1.5173	0.69	0.76
<a href="#">GO:0009755</a>	<i>hormone-mediated signaling pathway</i>	3.617 %	-1.3931	0.57	0.94
<a href="#">GO:0009738</a>	<i>abscisic acid-activated signaling pathway</i>	1.062 %	-2.0702	0.61	0.71
<a href="#">GO:0034052</a>	<i>positive regulation of plant-type hypersensitive response</i>	0.026 %	-1.3343	0.67	0.54
<a href="#">GO:0009787</a>	<i>regulation of abscisic acid-activated signaling pathway</i>	0.350 %	-2.7771	0.62	0.93
<a href="#">GO:0009788</a>	<i>negative regulation of abscisic acid-activated signaling pathway</i>	0.160 %	-4.0178	0.62	0.93
<a href="#">GO:0009968</a>	<i>negative regulation of signal transduction</i>	0.332 %	-4.4937	0.64	0.67
<a href="#">GO:0009966</a>	<i>regulation of signal transduction</i>	1.109 %	-2.1162	0.63	0.87

<a href="#">GO:0009938</a>	<i>negative regulation of gibberellic acid mediated signaling pathway</i>	0.039 %	-1.1120	0.65	0.83
<a href="#">GO:1901419</a>	<i>regulation of response to alcohol</i>	0.350 %	-2.7771	0.69	0.68
<a href="#">GO:1901420</a>	<i>negative regulation of response to alcohol</i>	0.160 %	-4.0178	0.68	0.81
<a href="#">GO:0097033</a>	<b>mitochondrial respiratory chain complex III biogenesis</b>	<b>0.009 %</b>	<b>-1.5164</b>	<b>0.95</b>	<b>0.46</b>
<a href="#">GO:0009746</a>	<b>response to hexose</b>	<b>0.220 %</b>	<b>-2.4458</b>	<b>0.83</b>	<b>0.46</b>
<a href="#">GO:0009749</a>	<i>response to glucose</i>	0.194 %	-1.8711	0.84	0.98
<a href="#">GO:0034284</a>	<i>response to monosaccharide</i>	0.237 %	-2.3519	0.83	0.86
<a href="#">GO:0071368</a>	<b>cellular response to cytokinin stimulus</b>	<b>0.337 %</b>	<b>-1.4459</b>	<b>0.79</b>	<b>0.46</b>
<a href="#">GO:0033554</a>	<b>cellular response to stress</b>	<b>3.772 %</b>	<b>-1.4872</b>	<b>0.78</b>	<b>0.47</b>
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	6.504 %	-2.0670	0.80	0.64
<a href="#">GO:0070887</a>	<i>cellular response to chemical stimulus</i>	5.287 %	-2.2180	0.76	0.58
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-1.7015	0.79	0.70
<a href="#">GO:0001101</a>	<i>response to acid chemical</i>	5.011 %	-1.5388	0.80	0.62
<a href="#">GO:0006952</a>	<i>defense response</i>	6.090 %	-1.8185	0.83	0.55
<a href="#">GO:0071219</a>	<b>cellular response to molecule of bacterial origin</b>	<b>0.030 %</b>	<b>-1.2510</b>	<b>0.83</b>	<b>0.48</b>
<a href="#">GO:0009743</a>	<b>response to carbohydrate</b>	<b>0.518 %</b>	<b>-2.6258</b>	<b>0.83</b>	<b>0.49</b>
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-1.6385</b>	<b>0.83</b>	<b>0.49</b>
<a href="#">GO:0071216</a>	<b>cellular response to biotic stimulus</b>	<b>0.052 %</b>	<b>-1.1819</b>	<b>0.85</b>	<b>0.49</b>
<a href="#">GO:0051716</a>	<b>cellular response to stimulus</b>	<b>12.637 %</b>	<b>-1.4322</b>	<b>0.79</b>	<b>0.50</b>

Biological Process (344) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 38

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0002376</a>	immune system process	1.532 %		-2.7772	0.99	0.00
<a href="#">GO:0009646</a>	response to absence of light	0.142 %		-6.9447	0.89	0.00
<i>GO:0010114</i>	<i>response to red light</i>	0.259 %		-1.4689	0.89	0.80
<i>GO:0009642</i>	<i>response to light intensity</i>	0.587 %		-3.0294	0.88	0.60
<i>GO:0009637</i>	<i>response to blue light</i>	0.341 %		-1.8325	0.88	0.64
<i>GO:0009639</i>	<i>response to red or far red light</i>	0.872 %		-2.2704	0.87	0.83
<i>GO:0009640</i>	<i>photomorphogenesis</i>	0.311 %		-1.9021	0.71	0.64
<i>GO:0009647</i>	<i>skotomorphogenesis</i>	0.026 %		-5.7627	0.75	0.69
<i>GO:0009416</i>	<i>response to light stimulus</i>	2.771 %		-2.7210	0.86	0.79
<a href="#">GO:0009653</a>	anatomical structure morphogenesis	3.500 %		-5.1467	0.82	0.00
<i>GO:0044707</i>	<i>single-multicellular organism process</i>	10.699 %		-2.4686	0.78	0.70
<i>GO:0099402</i>	<i>plant organ development</i>	3.763 %		-3.1300	0.74	0.57
<i>GO:0010228</i>	<i>vegetative to reproductive phase transition of meristem</i>	0.738 %		-1.1400	0.77	0.60
<i>GO:0044767</i>	<i>single-organism developmental process</i>	12.123 %		-3.3726	0.75	0.68
<i>GO:0022622</i>	<i>root system development</i>	1.895 %		-1.9920	0.76	0.67
<i>GO:0007275</i>	<i>multicellular organism development</i>	10.423 %		-2.0269	0.73	0.86

<a href="#">GO:0048367</a>	<i>shoot system development</i>	3.599 %	-1.6177	0.74	0.74
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-2.9602	0.81	0.85
<a href="#">GO:0009791</a>	<i>post-embryonic development</i>	5.848 %	-1.2912	0.75	0.76
<a href="#">GO:0048869</a>	<i>cellular developmental process</i>	4.148 %	-3.0934	0.71	0.57
<a href="#">GO:0048731</a>	<i>system development</i>	7.225 %	-2.4830	0.74	0.79
<a href="#">GO:0015837</a>	<b>amine transport</b>	<b>0.043 %</b>	<b>-3.6708</b>	<b>0.95</b>	<b>0.00</b>
<a href="#">GO:0006868</a>	<i>glutamine transport</i>	0.026 %	-1.7073	0.88	0.67
<a href="#">GO:0006865</a>	<i>amino acid transport</i>	0.419 %	-1.3943	0.85	0.79
<a href="#">GO:0046942</a>	<i>carboxylic acid transport</i>	0.682 %	-1.0137	0.85	0.95
<a href="#">GO:0010585</a>	<i>glutamine secretion</i>	0.004 %	-1.7073	0.84	0.77
<a href="#">GO:0032890</a>	<i>regulation of organic acid transport</i>	0.030 %	-3.6708	0.81	0.63
<a href="#">GO:0032973</a>	<i>amino acid export</i>	0.082 %	-2.6697	0.87	0.72
<a href="#">GO:0051955</a>	<i>regulation of amino acid transport</i>	0.030 %	-3.6708	0.80	1.00
<a href="#">GO:0051952</a>	<i>regulation of amine transport</i>	0.030 %	-3.6708	0.86	0.96
<a href="#">GO:0015743</a>	<i>malate transport</i>	0.086 %	-1.0638	0.87	0.79
<a href="#">GO:0015804</a>	<i>neutral amino acid transport</i>	0.086 %	-1.0538	0.87	0.79
<a href="#">GO:0080143</a>	<i>regulation of amino acid export</i>	0.030 %	-3.6708	0.80	0.52
<a href="#">GO:0023052</a>	<b>signaling</b>	<b>8.908 %</b>	<b>-1.4305</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0032501</a>	<b>multicellular organismal process</b>	<b>11.360 %</b>	<b>-2.3479</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0032502</a>	<b>developmental process</b>	<b>12.689 %</b>	<b>-3.1110</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0040007</a>	<b>growth</b>	<b>2.529 %</b>	<b>-1.8433</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0044419</a>	<b>interspecies interaction between organisms</b>	<b>0.423 %</b>	<b>-1.5710</b>	<b>0.98</b>	<b>0.00</b>
<a href="#">GO:0051701</a>	<i>interaction with host</i>	0.177 %	-1.0613	0.97	0.84
<a href="#">GO:0051817</a>	<i>modification of morphology or physiology of other organism involved in symbiotic interaction</i>	0.129 %	-1.3123	0.88	0.82
<a href="#">GO:0035821</a>	<i>modification of morphology or physiology of other organism</i>	1.385 %	-1.2477	0.86	0.67
<a href="#">GO:0019048</a>	<i>modulation by virus of host morphology or physiology</i>	0.017 %	-1.1180	0.88	0.87
<a href="#">GO:0044003</a>	<i>modification by symbiont of host morphology or physiology</i>	0.125 %	-1.3269	0.88	0.54
<a href="#">GO:0044550</a>	<b>secondary metabolite biosynthetic process</b>	<b>1.183 %</b>	<b>-6.8198</b>	<b>0.76</b>	<b>0.00</b>
<a href="#">GO:0052314</a>	<i>phytoalexin metabolic process</i>	0.052 %	-1.7357	0.79	0.71
<a href="#">GO:0052315</a>	<i>phytoalexin biosynthetic process</i>	0.052 %	-1.7357	0.75	1.00
<a href="#">GO:0052317</a>	<i>camalexin metabolic process</i>	0.047 %	-1.7896	0.74	0.99
<a href="#">GO:0052318</a>	<i>regulation of phytoalexin metabolic process</i>	0.009 %	-3.4338	0.73	0.81
<a href="#">GO:0052319</a>	<i>regulation of phytoalexin biosynthetic process</i>	0.009 %	-3.4338	0.72	1.00
<a href="#">GO:0052320</a>	<i>positive regulation of phytoalexin metabolic process</i>	0.009 %	-3.4338	0.71	1.00
<a href="#">GO:0052322</a>	<i>positive regulation of phytoalexin biosynthetic process</i>	0.009 %	-3.4338	0.70	1.00
<a href="#">GO:0010120</a>	<i>camalexin biosynthetic process</i>	0.047 %	-1.7896	0.72	0.90
<a href="#">GO:1901182</a>	<i>regulation of camalexin biosynthetic process</i>	0.009 %	-3.4338	0.70	1.00
<a href="#">GO:1901183</a>	<i>positive regulation of camalexin biosynthetic process</i>	0.009 %	-3.4338	0.68	0.56
<a href="#">GO:0009691</a>	<i>cytokinin biosynthetic process</i>	0.091 %	-1.0846	0.81	0.84
<a href="#">GO:0009698</a>	<i>phenylpropanoid metabolic process</i>	0.505 %	-5.6683	0.75	0.80
<a href="#">GO:0009700</a>	<i>indole phytoalexin biosynthetic process</i>	0.052 %	-1.7357	0.73	0.99
<a href="#">GO:0009699</a>	<i>phenylpropanoid biosynthetic process</i>	0.337 %	-6.6438	0.72	0.76
<a href="#">GO:0010023</a>	<i>proanthocyanidin biosynthetic process</i>	0.035 %	-1.0538	0.76	0.77
<a href="#">GO:0009683</a>	<i>indoleacetic acid metabolic process</i>	0.078 %	-1.9607	0.75	0.67
<a href="#">GO:0033473</a>	<i>indoleacetic acid conjugate metabolic process</i>	0.004 %	-1.9607	0.79	0.69
<a href="#">GO:0043455</a>	<i>regulation of secondary metabolic process</i>	0.173 %	-1.0292	0.74	0.72
<a href="#">GO:0034754</a>	<i>cellular hormone metabolic process</i>	0.263 %	-1.6011	0.85	0.75
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	0.285 %	-2.7854	0.75	0.91
<a href="#">GO:0009809</a>	<i>lignin biosynthetic process</i>	0.181 %	-3.2826	0.74	0.88
<a href="#">GO:1900376</a>	<i>regulation of secondary metabolite biosynthetic process</i>	0.078 %	-1.5254	0.72	0.80
<a href="#">GO:1900378</a>	<i>positive regulation of secondary metabolite biosynthetic process</i>	0.017 %	-2.8563	0.72	0.79
<a href="#">GO:0046217</a>	<i>indole phytoalexin metabolic process</i>	0.052 %	-1.7357	0.75	1.00
<a href="#">GO:0010345</a>	<i>suberin biosynthetic process</i>	0.060 %	-5.4153	0.76	0.80
<a href="#">GO:0009404</a>	<i>toxin metabolic process</i>	0.250 %	-1.4997	0.78	0.74
<a href="#">GO:0009403</a>	<i>toxin biosynthetic process</i>	0.052 %	-1.7357	0.76	0.79
<a href="#">GO:0051176</a>	<i>positive regulation of sulfur metabolic process</i>	0.035 %	-3.0515	0.81	0.81
<a href="#">GO:0042435</a>	<i>indole-containing compound biosynthetic process</i>	0.237 %	-1.3943	0.84	0.84
<a href="#">GO:0046274</a>	<i>lignin catabolic process</i>	0.078 %	-2.8678	0.76	0.82
<a href="#">GO:0042445</a>	<i>hormone metabolic process</i>	0.695 %	-1.3906	0.85	0.82
<a href="#">GO:0046271</a>	<i>phenylpropanoid catabolic process</i>	0.078 %	-2.7938	0.76	0.82
<a href="#">GO:0044699</a>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-4.1231</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-4.5709</b>	<b>1.00</b>	<b>0.00</b>
<a href="#">GO:0051704</a>	<b>multi-organism process</b>	<b>3.362 %</b>	<b>-4.2453</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0071555</a>	<b>cell wall organization</b>	<b>2.430 %</b>	<b>-6.3807</b>	<b>0.88</b>	<b>0.00</b>
<a href="#">GO:0042547</a>	<i>cell wall modification involved in multidimensional cell growth</i>	0.017 %	-1.0073	0.83	0.58
<a href="#">GO:0042545</a>	<i>cell wall modification</i>	0.561 %	-2.2990	0.89	0.80
<a href="#">GO:0071669</a>	<i>plant-type cell wall organization or biogenesis</i>	1.152 %	-2.4400	0.93	0.82
<a href="#">GO:0009664</a>	<i>plant-type cell wall organization</i>	0.652 %	-4.2257	0.89	0.81
<a href="#">GO:0016998</a>	<i>cell wall macromolecule catabolic process</i>	0.112 %	-2.4507	0.89	0.64

<a href="#">GO:0071840</a>	cellular component organization or biogenesis	14.454 %	-1.9846	1.00	0.00
<a href="#">GO:0042744</a>	hydrogen peroxide catabolic process	0.380 %	-2.9333	0.90	0.05
<a href="#">GO:0019439</a>	<i>aromatic compound catabolic process</i>	0.898 %	-1.6340	0.87	0.52
<a href="#">GO:0042743</a>	<i>hydrogen peroxide metabolic process</i>	0.466 %	-2.1872	0.92	0.89
<a href="#">GO:0018027</a>	peptidyl-lysine dimethylation	0.022 %	-1.2884	0.90	0.06
<a href="#">GO:0071554</a>	cell wall organization or biogenesis	3.168 %	-5.0980	0.94	0.06
<a href="#">GO:0042762</a>	regulation of sulfur metabolic process	0.091 %	-1.6935	0.83	0.07
<a href="#">GO:0009056</a>	catabolic process	8.118 %	-1.6001	0.95	0.07
<a href="#">GO:0042430</a>	indole-containing compound metabolic process	0.384 %	-1.5508	0.88	0.07
<a href="#">GO:0007154</a>	cell communication	9.698 %	-1.1565	0.94	0.08
<a href="#">GO:0072593</a>	reactive oxygen species metabolic process	0.734 %	-1.2133	0.93	0.08
<a href="#">GO:0008219</a>	cell death	0.734 %	-1.6055	0.84	0.11
<a href="#">GO:0009410</a>	response to xenobiotic stimulus	0.013 %	-2.0532	0.90	0.13
<a href="#">GO:0055088</a>	lipid homeostasis	0.199 %	-1.0346	0.89	0.14
<a href="#">GO:0010268</a>	<i>brassinosteroid homeostasis</i>	0.138 %	-1.1419	0.89	0.62
<a href="#">GO:0044763</a>	single-organism cellular process	23.034 %	-3.0652	0.84	0.17
<a href="#">GO:0009299</a>	mRNA transcription	0.060 %	-1.1544	0.87	0.18
<a href="#">GO:0051707</a>	response to other organism	4.968 %	-4.7212	0.84	0.21
<a href="#">GO:0043207</a>	<i>response to external biotic stimulus</i>	4.981 %	-4.7212	0.84	0.94
<a href="#">GO:0080027</a>	<i>response to herbivore</i>	0.043 %	-2.2277	0.90	0.53
<a href="#">GO:0050832</a>	<i>defense response to fungus</i>	2.236 %	-3.3018	0.83	0.84
<a href="#">GO:0071219</a>	<i>cellular response to molecule of bacterial origin</i>	0.030 %	-1.2234	0.84	0.51
<a href="#">GO:0071216</a>	<i>cellular response to biotic stimulus</i>	0.052 %	-1.1544	0.85	0.53
<a href="#">GO:0009620</a>	<i>response to fungus</i>	2.521 %	-3.3974	0.85	0.85
<a href="#">GO:0009617</a>	<i>response to bacterium</i>	1.748 %	-1.3604	0.86	0.81
<a href="#">GO:0098542</a>	<i>defense response to other organism</i>	4.044 %	-3.8851	0.83	0.92
<a href="#">GO:0042742</a>	<i>defense response to bacterium</i>	1.476 %	-1.0095	0.84	0.79
<a href="#">GO:0010921</a>	regulation of phosphatase activity	0.035 %	-1.0253	0.84	0.23
<a href="#">GO:0043666</a>	<i>regulation of phosphoprotein phosphatase activity</i>	0.022 %	-1.0441	0.81	0.93
<a href="#">GO:0080163</a>	<i>regulation of protein serine/threonine phosphatase activity</i>	0.017 %	-1.1297	0.81	0.89
<a href="#">GO:0035445</a>	borate transmembrane transport	0.017 %	-1.3875	0.95	0.23
<a href="#">GO:0098661</a>	<i>inorganic anion transmembrane transport</i>	0.203 %	-1.3253	0.94	0.72
<a href="#">GO:0046713</a>	<i>borate transport</i>	0.022 %	-1.3875	0.95	0.62
<a href="#">GO:1901983</a>	regulation of protein acetylation	0.056 %	-1.1672	0.80	0.23
<a href="#">GO:2000756</a>	<i>regulation of peptidyl-lysine acetylation</i>	0.056 %	-1.1672	0.79	1.00
<a href="#">GO:1900111</a>	<i>positive regulation of histone H3-K9 dimethylation</i>	0.017 %	-1.2884	0.76	0.89
<a href="#">GO:1900109</a>	<i>regulation of histone H3-K9 dimethylation</i>	0.022 %	-1.2884	0.77	0.99
<a href="#">GO:2000757</a>	<i>negative regulation of peptidyl-lysine acetylation</i>	0.039 %	-1.2234	0.76	1.00
<a href="#">GO:1901984</a>	<i>negative regulation of protein acetylation</i>	0.039 %	-1.2234	0.76	0.95
<a href="#">GO:0031060</a>	<i>regulation of histone methylation</i>	0.086 %	-1.0954	0.76	0.92
<a href="#">GO:0031057</a>	<i>negative regulation of histone modification</i>	0.047 %	-1.2234	0.73	0.95
<a href="#">GO:0031058</a>	<i>positive regulation of histone modification</i>	0.069 %	-1.2086	0.74	0.87
<a href="#">GO:0031062</a>	<i>positive regulation of histone methylation</i>	0.047 %	-1.2086	0.74	0.94
<a href="#">GO:0051570</a>	<i>regulation of histone H3-K9 methylation</i>	0.039 %	-1.1943	0.77	0.87
<a href="#">GO:1905269</a>	<i>positive regulation of chromatin organization</i>	0.086 %	-1.1297	0.79	0.81
<a href="#">GO:0051574</a>	<i>positive regulation of histone H3-K9 methylation</i>	0.022 %	-1.2387	0.75	0.92
<a href="#">GO:0035065</a>	<i>regulation of histone acetylation</i>	0.056 %	-1.1672	0.76	0.98
<a href="#">GO:0035067</a>	<i>negative regulation of histone acetylation</i>	0.039 %	-1.2234	0.73	0.75
<a href="#">GO:0036123</a>	<i>histone H3-K9 dimethylation</i>	0.022 %	-1.2884	0.86	1.00
<a href="#">GO:0046717</a>	acid secretion	0.026 %	-1.7073	0.90	0.24
<a href="#">GO:0070988</a>	demethylation	0.121 %	-1.0162	0.87	0.25
<a href="#">GO:0010497</a>	plasmodesmata-mediated intercellular transport	0.056 %	-1.2234	0.93	0.25
<a href="#">GO:0010496</a>	intercellular transport	0.073 %	-1.1065	0.93	0.26
<a href="#">GO:0045087</a>	innate immune response	1.364 %	-3.1827	0.83	0.27
<a href="#">GO:0009626</a>	<i>plant-type hypersensitive response</i>	0.341 %	-2.1872	0.69	0.84
<a href="#">GO:0009627</a>	<i>systemic acquired resistance</i>	0.281 %	-3.0883	0.84	0.83
<a href="#">GO:0043067</a>	<i>regulation of programmed cell death</i>	0.216 %	-1.0076	0.76	0.89
<a href="#">GO:0043068</a>	<i>positive regulation of programmed cell death</i>	0.069 %	-2.1503	0.76	0.88
<a href="#">GO:0050778</a>	<i>positive regulation of immune response</i>	0.255 %	-2.1915	0.74	0.99
<a href="#">GO:0050776</a>	<i>regulation of immune response</i>	0.419 %	-1.7383	0.75	0.98
<a href="#">GO:0012501</a>	<i>programmed cell death</i>	0.600 %	-1.5597	0.82	0.90
<a href="#">GO:0010942</a>	<i>positive regulation of cell death</i>	0.104 %	-1.9437	0.75	0.77
<a href="#">GO:0002684</a>	<i>positive regulation of immune system process</i>	0.255 %	-2.1915	0.81	0.90
<a href="#">GO:0002682</a>	<i>regulation of immune system process</i>	0.453 %	-1.6369	0.84	0.85
<a href="#">GO:0010363</a>	<i>regulation of plant-type hypersensitive response</i>	0.060 %	-2.1072	0.66	0.86
<a href="#">GO:0045088</a>	<i>regulation of innate immune response</i>	0.397 %	-1.7926	0.74	0.94
<a href="#">GO:0045089</a>	<i>positive regulation of innate immune response</i>	0.242 %	-2.2281	0.73	0.83
<a href="#">GO:0009814</a>	<i>defense response, incompatible interaction</i>	0.725 %	-2.8019	0.82	0.91
<a href="#">GO:0034050</a>	<i>host programmed cell death induced by symbiont</i>	0.345 %	-2.1131	0.83	0.90
<a href="#">GO:0034052</a>	<i>positive regulation of plant-type hypersensitive response</i>	0.026 %	-2.9290	0.67	0.67
<a href="#">GO:0009866</a>	<i>induced systemic resistance, ethylene mediated signaling pathway</i>	0.013 %	-1.7073	0.68	0.70
<a href="#">GO:0009871</a>	<i>jasmonic acid and ethylene-dependent systemic resistance, ethylene mediated signaling pathway</i>	0.009 %	-2.3572	0.72	0.62

<a href="#">GO:0006955</a>	immune response	1.398 %	-3.0907	0.84	0.96
<a href="#">GO:0048513</a>	animal organ development	0.004 %	-1.9504	0.85	0.28
<a href="#">GO:0007043</a>	cell-cell junction assembly	0.022 %	-6.0637	0.84	0.29
<a href="#">GO:0034329</a>	cell junction assembly	0.026 %	-4.8095	0.84	0.94
<a href="#">GO:0045216</a>	cell-cell junction organization	0.039 %	-4.2678	0.84	0.97
<a href="#">GO:1905328</a>	plant septum development	0.009 %	-1.1297	0.89	0.30
<a href="#">GO:0070483</a>	detection of hypoxia	0.013 %	-1.6211	0.88	0.30
<a href="#">GO:0003032</a>	detection of oxygen	0.013 %	-1.6211	0.89	0.78
<a href="#">GO:0034059</a>	response to anoxia	0.030 %	-1.1180	0.89	0.69
<a href="#">GO:0034330</a>	cell junction organization	0.039 %	-4.2678	0.85	0.30
<a href="#">GO:0032870</a>	cellular response to hormone stimulus	3.871 %	-2.5437	0.77	0.32
<a href="#">GO:0044700</a>	single organism signaling	8.899 %	-1.4317	0.85	0.91
<a href="#">GO:0033993</a>	response to lipid	3.267 %	-1.1028	0.84	0.67
<a href="#">GO:0071732</a>	cellular response to nitric oxide	0.086 %	-1.7271	0.82	0.54
<a href="#">GO:0071731</a>	response to nitric oxide	0.091 %	-1.6459	0.87	0.71
<a href="#">GO:0071365</a>	cellular response to auxin stimulus	0.932 %	-1.4040	0.80	0.85
<a href="#">GO:0070887</a>	cellular response to chemical stimulus	5.287 %	-2.9974	0.79	0.59
<a href="#">GO:0071369</a>	cellular response to ethylene stimulus	0.906 %	-1.9874	0.79	0.78
<a href="#">GO:1902170</a>	cellular response to reactive nitrogen species	0.104 %	-1.4451	0.84	0.77
<a href="#">GO:0071310</a>	cellular response to organic substance	4.601 %	-2.4553	0.77	0.88
<a href="#">GO:0007165</a>	signal transduction	8.731 %	-1.6218	0.63	0.67
<a href="#">GO:0010033</a>	response to organic substance	8.580 %	-2.1529	0.83	0.68
<a href="#">GO:0009755</a>	hormone-mediated signaling pathway	3.617 %	-2.2159	0.62	0.94
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %	-1.2550	0.85	0.60
<a href="#">GO:0009734</a>	auxin-activated signaling pathway	0.868 %	-1.6455	0.67	0.77
<a href="#">GO:0009733</a>	response to auxin	1.709 %	-2.1249	0.84	0.68
<a href="#">GO:0009725</a>	response to hormone	6.871 %	-3.0451	0.82	0.82
<a href="#">GO:1990267</a>	response to transition metal nanoparticle	2.017 %	-1.3417	0.86	0.51
<a href="#">GO:0009723</a>	response to ethylene	1.269 %	-1.8731	0.85	0.65
<a href="#">GO:0034614</a>	cellular response to reactive oxygen species	0.207 %	-1.1093	0.81	0.81
<a href="#">GO:0071495</a>	cellular response to endogenous stimulus	3.988 %	-2.4500	0.85	0.75
<a href="#">GO:0019748</a>	secondary metabolic process	1.938 %	-5.1414	0.84	0.33
<a href="#">GO:0019438</a>	aromatic compound biosynthetic process	14.247 %	-4.7877	0.82	0.33
<a href="#">GO:0032774</a>	RNA biosynthetic process	11.813 %	-1.7592	0.79	0.82
<a href="#">GO:0031323</a>	regulation of cellular metabolic process	13.906 %	-1.2118	0.74	0.80
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %	-1.2568	0.70	0.85
<a href="#">GO:0051252</a>	regulation of RNA metabolic process	11.463 %	-1.5284	0.70	0.87
<a href="#">GO:2001141</a>	regulation of RNA biosynthetic process	11.282 %	-1.5981	0.68	0.88
<a href="#">GO:0019219</a>	regulation of nucleobase-containing compound metabolic process	11.700 %	-1.2836	0.71	0.84
<a href="#">GO:0044249</a>	cellular biosynthetic process	22.844 %	-1.3110	0.83	0.63
<a href="#">GO:0006355</a>	regulation of transcription, DNA-templated	11.234 %	-1.5981	0.68	0.55
<a href="#">GO:0006351</a>	transcription, DNA-templated	11.709 %	-1.7592	0.79	0.87
<a href="#">GO:1901576</a>	organic substance biosynthetic process	22.969 %	-1.0764	0.86	0.72
<a href="#">GO:0018130</a>	heterocycle biosynthetic process	14.014 %	-1.5404	0.83	0.58
<a href="#">GO:1903506</a>	regulation of nucleic acid-templated transcription	11.282 %	-1.5981	0.68	0.89
<a href="#">GO:0097659</a>	nucleic acid-templated transcription	11.761 %	-1.7592	0.79	0.88
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-1.2200	0.74	0.78
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-4.6225	0.85	0.55
<a href="#">GO:0034654</a>	nucleobase-containing compound biosynthetic process	13.056 %	-1.1564	0.80	0.80
<a href="#">GO:0051171</a>	regulation of nitrogen compound metabolic process	12.430 %	-1.7565	0.76	0.76
<a href="#">GO:0009607</a>	response to biotic stimulus	5.158 %	-7.2067	0.88	0.33
<a href="#">GO:0033310</a>	chlorophyll a catabolic process	0.004 %	-2.3572	0.83	0.34
<a href="#">GO:0033304</a>	chlorophyll a metabolic process	0.004 %	-2.3572	0.91	0.56
<a href="#">GO:0046688</a>	response to copper ion	0.069 %	-2.5375	0.89	0.35
<a href="#">GO:0006521</a>	regulation of cellular amino acid metabolic process	0.060 %	-1.1297	0.75	0.35
<a href="#">GO:0010160</a>	formation of animal organ boundary	0.055 %	-2.2780	0.77	0.35
<a href="#">GO:0080110</a>	sporopollenin biosynthetic process	0.030 %	-1.2234	0.68	0.62
<a href="#">GO:0048504</a>	regulation of timing of animal organ formation	0.004 %	-1.3875	0.75	1.15
<a href="#">GO:1905393</a>	plant organ formation	0.427 %	-1.5465	0.81	0.75
<a href="#">GO:0048859</a>	formation of anatomical boundary	0.069 %	-1.4872	0.80	0.76
<a href="#">GO:0003156</a>	regulation of animal organ formation	0.004 %	-1.0846	0.75	1.15
<a href="#">GO:0048645</a>	animal organ formation	0.004 %	-1.7712	0.81	1.15
<a href="#">GO:0009887</a>	animal organ morphogenesis	0.004 %	-2.4998	0.81	1.15
<a href="#">GO:0006949</a>	syncytium formation	0.043 %	-2.1072	0.76	0.64
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-3.9215	0.87	0.35
<a href="#">GO:0001708</a>	cell fate specification	0.134 %	-1.6693	0.77	0.36
<a href="#">GO:0010158</a>	abaxial cell fate specification	0.030 %	-1.2387	0.79	0.77
<a href="#">GO:0045165</a>	cell fate commitment	0.341 %	-1.3998	0.75	0.61
<a href="#">GO:0090627</a>	plant epidermal cell differentiation	0.621 %	-1.6432	0.74	0.56
<a href="#">GO:0043693</a>	monoterpene biosynthetic process	0.017 %	-3.4338	0.80	0.36

<a href="#">GO:0010686</a>	tetracyclic triterpenoid biosynthetic process	0.004 %	-1.1672	0.80	0.52
<a href="#">GO:0010685</a>	tetracyclic triterpenoid metabolic process	0.004 %	-1.1672	0.83	0.79
<a href="#">GO:0033383</a>	geranyl diphosphate metabolic process	0.056 %	-2.6980	0.81	0.59
<a href="#">GO:0043692</a>	monoterpene metabolic process	0.017 %	-3.4338	0.82	0.85
<a href="#">GO:0019745</a>	pentacyclic triterpenoid biosynthetic process	0.004 %	-1.1672	0.80	0.81
<a href="#">GO:0016099</a>	monoterpenoid biosynthetic process	0.004 %	-2.9679	0.82	0.52
<a href="#">GO:0016098</a>	monoterpenoid metabolic process	0.004 %	-2.9679	0.84	0.51
<a href="#">GO:0016106</a>	sesquiterpenoid biosynthetic process	0.138 %	-1.1544	0.77	0.84
<a href="#">GO:0016114</a>	terpenoid biosynthetic process	0.591 %	-1.3599	0.74	0.78
<a href="#">GO:0006714</a>	sesquiterpenoid metabolic process	0.181 %	-1.0538	0.80	0.86
<a href="#">GO:0006721</a>	terpenoid metabolic process	0.699 %	-1.1593	0.77	0.94
<a href="#">GO:0042214</a>	terpene metabolic process	0.065 %	-1.9324	0.81	0.64
<a href="#">GO:0008299</a>	isoprenoid biosynthetic process	0.738 %	-1.1290	0.74	0.96
<a href="#">GO:0046246</a>	terpene biosynthetic process	0.043 %	-2.2954	0.78	0.89
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-2.4132</b>	<b>0.87</b>	<b>0.37</b>
<a href="#">GO:0048284</a>	<b>organelle fusion</b>	<b>0.496 %</b>	<b>-1.2010</b>	<b>0.91</b>	<b>0.39</b>
<a href="#">GO:0009968</a>	<b>negative regulation of signal transduction</b>	<b>0.332 %</b>	<b>-2.4069</b>	<b>0.65</b>	<b>0.40</b>
<a href="#">GO:0048523</a>	negative regulation of cellular process	2.719 %	-1.1643	0.77	0.77
<a href="#">GO:0023057</a>	negative regulation of signaling	0.345 %	-2.3806	0.76	0.78
<a href="#">GO:1902679</a>	negative regulation of RNA biosynthetic process	1.057 %	-1.6297	0.70	0.99
<a href="#">GO:0031327</a>	negative regulation of cellular biosynthetic process	1.429 %	-1.2225	0.71	0.98
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %	-1.1449	0.75	0.64
<a href="#">GO:0048584</a>	positive regulation of response to stimulus	0.902 %	-1.1435	0.75	0.74
<a href="#">GO:0051253</a>	negative regulation of RNA metabolic process	1.062 %	-1.6209	0.72	0.96
<a href="#">GO:0048585</a>	negative regulation of response to stimulus	0.699 %	-1.2316	0.73	0.67
<a href="#">GO:0045934</a>	negative regulation of nucleobase-containing compound metabolic process	1.139 %	-1.4990	0.72	0.92
<a href="#">GO:0010648</a>	negative regulation of cell communication	0.345 %	-2.3806	0.79	0.78
<a href="#">GO:0010105</a>	negative regulation of ethylene-activated signaling pathway	0.073 %	-1.2546	0.66	0.87
<a href="#">GO:0045892</a>	negative regulation of transcription, DNA-templated	0.958 %	-1.6297	0.70	0.68
<a href="#">GO:0010629</a>	negative regulation of gene expression	1.601 %	-1.0162	0.75	0.88
<a href="#">GO:0071370</a>	cellular response to gibberellin stimulus	0.354 %	-1.1165	0.80	0.89
<a href="#">GO:0070298</a>	negative regulation of phosphorelay signal transduction system	0.073 %	-1.2546	0.69	0.97
<a href="#">GO:0010558</a>	negative regulation of macromolecule biosynthetic process	1.355 %	-1.3099	0.73	0.96
<a href="#">GO:0031349</a>	positive regulation of defense response	0.341 %	-2.1646	0.74	0.63
<a href="#">GO:0009740</a>	gibberellic acid mediated signaling pathway	0.341 %	-1.2521	0.69	0.88
<a href="#">GO:0010476</a>	gibberellin mediated signaling pathway	0.345 %	-1.1690	0.69	0.99
<a href="#">GO:0010930</a>	negative regulation of auxin mediated signaling pathway	0.013 %	-2.3572	0.70	0.77
<a href="#">GO:2000113</a>	negative regulation of cellular macromolecule biosynthetic process	1.256 %	-1.3099	0.71	0.94
<a href="#">GO:1903507</a>	negative regulation of nucleic acid-templated transcription	1.057 %	-1.6297	0.70	0.98
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-1.0162	0.78	0.84
<a href="#">GO:0009890</a>	negative regulation of biosynthetic process	1.450 %	-1.2056	0.74	0.82
<a href="#">GO:1902532</a>	negative regulation of intracellular signal transduction	0.091 %	-1.2546	0.68	0.89
<a href="#">GO:0080135</a>	regulation of cellular response to stress	0.250 %	-1.4335	0.74	0.73
<a href="#">GO:0009937</a>	regulation of gibberellic acid mediated signaling pathway	0.073 %	-1.6306	0.69	0.69
<a href="#">GO:0009938</a>	negative regulation of gibberellic acid mediated signaling pathway	0.039 %	-2.4723	0.67	0.83
<a href="#">GO:0051172</a>	negative regulation of nitrogen compound metabolic process	1.433 %	-1.2056	0.76	0.86
<a href="#">GO:0048440</a>	<b>carpel development</b>	<b>0.268 %</b>	<b>-4.4441</b>	<b>0.76</b>	<b>0.41</b>
<a href="#">GO:0048528</a>	post-embryonic root development	0.501 %	-1.2810	0.75	0.93
<a href="#">GO:0048527</a>	lateral root development	0.457 %	-1.4852	0.75	0.92
<a href="#">GO:0090567</a>	reproductive shoot system development	2.110 %	-2.1152	0.74	0.72
<a href="#">GO:0080060</a>	integument development	0.039 %	-1.0846	0.79	0.83
<a href="#">GO:0016049</a>	cell growth	1.519 %	-2.3898	0.82	0.83
<a href="#">GO:0048589</a>	developmental growth	1.623 %	-2.0077	0.78	0.86
<a href="#">GO:0010102</a>	lateral root morphogenesis	0.229 %	-2.1691	0.74	0.86
<a href="#">GO:0010101</a>	post-embryonic root morphogenesis	0.233 %	-2.1691	0.75	0.90
<a href="#">GO:0010054</a>	trichoblast differentiation	0.427 %	-2.0402	0.69	0.82
<a href="#">GO:0010053</a>	root epidermal cell differentiation	0.488 %	-1.6960	0.68	0.94
<a href="#">GO:0060560</a>	developmental growth involved in morphogenesis	1.157 %	-2.6258	0.75	0.75
<a href="#">GO:0048462</a>	carpel formation	0.026 %	-1.3657	0.76	0.81
<a href="#">GO:0048467</a>	gynoecium development	0.315 %	-4.7464	0.76	0.85
<a href="#">GO:0048466</a>	androecium development	0.345 %	-1.8291	0.76	0.87
<a href="#">GO:0000902</a>	cell morphogenesis	1.467 %	-2.6703	0.66	0.71
<a href="#">GO:0048438</a>	floral whorl development	0.669 %	-3.5937	0.76	0.70
<a href="#">GO:0000904</a>	cell morphogenesis involved in differentiation	0.880 %	-1.3416	0.67	0.91
<a href="#">GO:0048437</a>	floral organ development	0.872 %	-2.5485	0.75	0.78
<a href="#">GO:0048444</a>	floral organ morphogenesis	0.181 %	-1.1690	0.74	0.88
<a href="#">GO:0048443</a>	stamen development	0.345 %	-1.8291	0.75	0.96
<a href="#">GO:0048446</a>	petal morphogenesis	0.026 %	-1.1297	0.77	0.72

<a href="#">GO:0048445</a>	<i>carpel morphogenesis</i>	0.035 %	-1.0954	0.76	0.83
<a href="#">GO:0010500</a>	<i>transmitting tissue development</i>	0.017 %	-1.3064	0.81	0.79
<a href="#">GO:0010015</a>	<i>root morphogenesis</i>	0.967 %	-2.8064	0.73	0.82
<a href="#">GO:0032989</a>	<i>cellular component morphogenesis</i>	1.618 %	-2.8736	0.66	0.78
<a href="#">GO:0048766</a>	<i>root hair initiation</i>	0.047 %	-1.1943	0.71	0.63
<a href="#">GO:1905392</a>	<i>plant organ morphogenesis</i>	1.485 %	-2.6223	0.73	0.78
<a href="#">GO:0048827</a>	<i>phyllome development</i>	1.921 %	-2.0290	0.74	0.82
<a href="#">GO:0030154</a>	<i>cell differentiation</i>	3.332 %	-1.6520	0.70	0.81
<a href="#">GO:0009826</a>	<i>unidimensional cell growth</i>	1.010 %	-2.4601	0.66	0.92
<a href="#">GO:0048364</a>	<i>root development</i>	1.886 %	-2.0097	0.74	0.90
<a href="#">GO:0009908</a>	<i>flower development</i>	2.059 %	-2.2588	0.73	0.88
<a href="#">GO:0048646</a>	<i>anatomical structure formation involved in morphogenesis</i>	0.755 %	-2.7745	0.81	0.62
<a href="#">GO:0010311</a>	<i>lateral root formation</i>	0.168 %	-1.0387	0.74	0.97
<a href="#">GO:0048653</a>	<i>anther development</i>	0.224 %	-2.5061	0.76	0.83
<a href="#">GO:0009886</a>	<i>post-embryonic animal morphogenesis</i>	0.526 %	-1.4105	0.76	0.64
<a href="#">GO:0090697</a>	<i>post-embryonic plant organ morphogenesis</i>	0.419 %	-2.9251	0.74	0.55
<a href="#">GO:0090698</a>	<i>post-embryonic plant morphogenesis</i>	0.716 %	-2.0920	0.81	0.66
<a href="#">GO:0090696</a>	<i>post-embryonic plant organ development</i>	0.686 %	-2.0026	0.76	0.60
<a href="#">GO:0080126</a>	<i>ovary septum development</i>	0.004 %	-1.7073	0.82	0.72
<a href="#">GO:0009561</a>	<b>megagametogenesis</b>	<b>0.281 %</b>	<b>-1.5324</b>	<b>0.80</b>	<b>0.41</b>
<a href="#">GO:0010197</a>	<i>polar nucleus fusion</i>	0.117 %	-1.2390	0.73	0.81
<a href="#">GO:0009559</a>	<i>embryo sac central cell differentiation</i>	0.121 %	-1.2218	0.76	0.87
<a href="#">GO:0009553</a>	<i>embryo sac development</i>	0.565 %	-1.0145	0.79	0.73
<a href="#">GO:0000741</a>	<i>karyogamy</i>	0.117 %	-1.2176	0.91	0.88
<a href="#">GO:0015849</a>	<b>organic acid transport</b>	<b>0.682 %</b>	<b>-1.3943</b>	<b>0.87</b>	<b>0.43</b>
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-1.9677</b>	<b>0.86</b>	<b>0.44</b>
<a href="#">GO:0006805</a>	<b>xenobiotic metabolic process</b>	<b>0.009 %</b>	<b>-1.3875</b>	<b>0.84</b>	<b>0.44</b>
<a href="#">GO:0042178</a>	<i>xenobiotic catabolic process</i>	0.004 %	-1.4883	0.83	0.96
<a href="#">GO:0071466</a>	<i>cellular response to xenobiotic stimulus</i>	0.009 %	-1.3875	0.86	0.96
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-1.8253</b>	<b>0.87</b>	<b>0.45</b>
<a href="#">GO:1901361</a>	<b>organic cyclic compound catabolic process</b>	<b>0.937 %</b>	<b>-1.5002</b>	<b>0.90</b>	<b>0.45</b>
<a href="#">GO:0044712</a>	<i>single-organism catabolic process</i>	2.676 %	-1.0605	0.81	0.56
<a href="#">GO:0044248</a>	<i>cellular catabolic process</i>	5.939 %	-1.3530	0.88	0.72
<a href="#">GO:0006997</a>	<b>nucleus organization</b>	<b>0.255 %</b>	<b>-1.0987</b>	<b>0.91</b>	<b>0.46</b>
<a href="#">GO:0009623</a>	<b>response to parasitic fungus</b>	<b>0.009 %</b>	<b>-1.5495</b>	<b>0.91</b>	<b>0.46</b>
<a href="#">GO:0009314</a>	<b>response to radiation</b>	<b>2.892 %</b>	<b>-2.4608</b>	<b>0.87</b>	<b>0.46</b>
<a href="#">GO:0000160</a>	<b>phosphorelay signal transduction system</b>	<b>1.049 %</b>	<b>-1.5360</b>	<b>0.70</b>	<b>0.46</b>
<a href="#">GO:0010529</a>	<b>negative regulation of transposition</b>	<b>0.009 %</b>	<b>-1.1943</b>	<b>0.78</b>	<b>0.47</b>
<a href="#">GO:0010528</a>	<i>regulation of transposition</i>	0.009 %	-1.1943	0.83	0.96
<a href="#">GO:0044711</a>	<b>single-organism biosynthetic process</b>	<b>7.549 %</b>	<b>-1.2430</b>	<b>0.78</b>	<b>0.47</b>
<a href="#">GO:0006952</a>	<b>defense response</b>	<b>6.090 %</b>	<b>-4.4870</b>	<b>0.86</b>	<b>0.47</b>
<a href="#">GO:0045229</a>	<b>external encapsulating structure organization</b>	<b>2.577 %</b>	<b>-6.2036</b>	<b>0.89</b>	<b>0.48</b>
<a href="#">GO:0016043</a>	<i>cellular component organization</i>	13.263 %	-2.4836	0.88	0.58
<a href="#">GO:0002215</a>	<b>defense response to nematode</b>	<b>0.013 %</b>	<b>-1.3064</b>	<b>0.89</b>	<b>0.48</b>
<a href="#">GO:0044347</a>	<b>cell wall polysaccharide catabolic process</b>	<b>0.004 %</b>	<b>-3.2486</b>	<b>0.91</b>	<b>0.49</b>
<a href="#">GO:0010817</a>	<b>regulation of hormone levels</b>	<b>1.109 %</b>	<b>-1.0181</b>	<b>0.87</b>	<b>0.49</b>
<a href="#">GO:0042221</a>	<b>response to chemical</b>	<b>12.434 %</b>	<b>-1.6192</b>	<b>0.86</b>	<b>0.49</b>
<a href="#">GO:0051782</a>	<b>negative regulation of cell division</b>	<b>0.022 %</b>	<b>-1.0846</b>	<b>0.78</b>	<b>0.50</b>
<a href="#">GO:0051716</a>	<b>cellular response to stimulus</b>	<b>12.637 %</b>	<b>-1.0854</b>	<b>0.82</b>	<b>0.50</b>



Biological Process (235) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 39

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000003</a>	reproduction	6.655 %		-3.0039	1.00	0.00
<a href="#">GO:0009723</a>	response to ethylene	1.269 %		-3.4854	0.86	0.00
<a href="#">GO:0071229</a>	cellular response to acid chemical	2.158 %		-1.3827	0.81	0.65
<a href="#">GO:1901701</a>	cellular response to oxygen-containing compound	2.788 %		-1.0545	0.81	0.82
<a href="#">GO:0010104</a>	regulation of ethylene-activated signaling pathway	0.095 %		-1.0179	0.73	0.98
<a href="#">GO:0010105</a>	negative regulation of ethylene-activated signaling pathway	0.073 %		-1.3082	0.72	0.72
<a href="#">GO:0032870</a>	cellular response to hormone stimulus	3.871 %		-1.2548	0.79	0.79
<a href="#">GO:0071369</a>	cellular response to ethylene stimulus	0.906 %		-2.1769	0.81	0.55
<a href="#">GO:0071370</a>	cellular response to gibberellin stimulus	0.354 %		-1.2120	0.82	0.89
<a href="#">GO:0070298</a>	negative regulation of phosphorelay signal transduction system	0.073 %		-1.3082	0.76	0.97
<a href="#">GO:0070297</a>	regulation of phosphorelay signal transduction system	0.095 %		-1.0179	0.77	0.87
<a href="#">GO:0071396</a>	cellular response to lipid	1.770 %		-1.0006	0.81	0.81
<a href="#">GO:0010033</a>	response to organic substance	8.580 %		-1.4399	0.85	0.54
<a href="#">GO:0009740</a>	gibberellic acid mediated signaling pathway	0.341 %		-1.3501	0.72	0.62
<a href="#">GO:0009739</a>	response to gibberellin	0.626 %		-1.4219	0.86	0.53
<a href="#">GO:0009735</a>	response to cytokinin	1.010 %		-1.2138	0.87	0.56

GO:0009725	response to hormone	6.871 %	-2.6283	0.84	0.82
GO:0010476	gibberellin mediated signaling pathway	0.345 %	-1.2655	0.72	0.99
GO:1902532	negative regulation of intracellular signal transduction	0.091 %	-1.3082	0.76	0.85
GO:0009873	ethylene-activated signaling pathway	0.811 %	-1.7397	0.70	0.91
GO:0071495	cellular response to endogenous stimulus	3.988 %	-1.2123	0.87	0.64
<b>GO:0010191</b>	<b>mucilage metabolic process</b>	<b>0.142 %</b>	<b>-3.7422</b>	<b>0.95</b>	<b>0.00</b>
<b>GO:0032501</b>	<b>multicellular organismal process</b>	<b>11.360 %</b>	<b>-1.9235</b>	<b>0.99</b>	<b>0.00</b>
<b>GO:0032502</b>	<b>developmental process</b>	<b>12.689 %</b>	<b>-2.3434</b>	<b>0.99</b>	<b>0.00</b>
<b>GO:0042991</b>	<b>transcription factor import into nucleus</b>	<b>0.026 %</b>	<b>-5.3264</b>	<b>0.83</b>	<b>0.00</b>
GO:1902593	single-organism nuclear import	0.242 %	-2.9398	0.81	0.99
GO:0044765	single-organism transport	5.287 %	-1.0954	0.80	0.71
GO:1902582	single-organism intracellular transport	0.790 %	-1.4233	0.80	0.87
GO:0033365	protein localization to organelle	1.148 %	-1.0764	0.90	0.84
GO:0044744	protein targeting to nucleus	0.246 %	-2.9398	0.89	0.98
GO:0034504	protein localization to nucleus	0.268 %	-2.8263	0.90	0.62
GO:0006606	protein import into nucleus	0.242 %	-2.9398	0.80	0.84
GO:0006605	protein targeting	1.006 %	-1.0289	0.89	0.84
GO:0072594	establishment of protein localization to organelle	0.924 %	-1.1514	0.89	0.83
GO:1902580	single-organism cellular localization	0.842 %	-1.3842	0.81	0.67
GO:0006913	nucleocytoplasmic transport	0.466 %	-1.8537	0.89	0.94
GO:0051170	nuclear import	0.246 %	-2.7529	0.90	0.89
GO:0051169	nuclear transport	0.470 %	-1.8537	0.91	0.54
<b>GO:0044699</b>	<b>single-organism process</b>	<b>41.709 %</b>	<b>-2.3371</b>	<b>1.00</b>	<b>0.00</b>
<b>GO:0050896</b>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-1.0880</b>	<b>0.99</b>	<b>0.00</b>
<b>GO:0009812</b>	<b>flavonoid metabolic process</b>	<b>0.414 %</b>	<b>-1.9908</b>	<b>0.97</b>	<b>0.04</b>
<b>GO:0071554</b>	<b>cell wall organization or biogenesis</b>	<b>3.168 %</b>	<b>-1.9885</b>	<b>0.95</b>	<b>0.04</b>
<b>GO:0010411</b>	<b>xyloglucan metabolic process</b>	<b>0.259 %</b>	<b>-2.8592</b>	<b>0.88</b>	<b>0.07</b>
GO:0016052	carbohydrate catabolic process	1.187 %	-1.1659	0.92	0.70
GO:0044275	cellular carbohydrate catabolic process	0.298 %	-1.2344	0.89	0.67
GO:0044264	cellular polysaccharide metabolic process	1.187 %	-1.2713	0.87	0.86
GO:0044036	cell wall macromolecule metabolic process	0.665 %	-1.2911	0.92	0.61
GO:0044042	glucan metabolic process	0.962 %	-1.6418	0.90	0.73
GO:0010383	cell wall polysaccharide metabolic process	0.518 %	-1.4914	0.87	0.93
GO:0006073	cellular glucan metabolic process	0.937 %	-1.6418	0.87	0.87
GO:0010410	hemicellulose metabolic process	0.423 %	-1.8808	0.88	0.92
GO:0005976	polysaccharide metabolic process	1.899 %	-1.2175	0.91	0.59
<b>GO:0010214</b>	<b>seed coat development</b>	<b>0.168 %</b>	<b>-5.1620</b>	<b>0.70</b>	<b>0.07</b>
GO:0044707	single-multicellular organism process	10.699 %	-2.3988	0.70	0.86
GO:0044702	single organism reproductive process	5.939 %	-2.5140	0.76	0.91
GO:0099402	plant organ development	3.763 %	-2.9276	0.65	0.77
GO:0003006	developmental process involved in reproduction	5.611 %	-2.8098	0.70	0.85
GO:0044767	single-organism developmental process	12.123 %	-2.5680	0.67	0.82
GO:0022622	root system development	1.895 %	-1.0972	0.67	0.69
GO:0010154	fruit development	2.443 %	-4.2577	0.64	0.86
GO:0048608	reproductive structure development	4.674 %	-4.0886	0.61	0.62
GO:0007275	multicellular organism development	10.423 %	-2.6342	0.64	0.82
GO:0048438	floral whorl development	0.669 %	-1.4316	0.66	0.72
GO:0032504	multicellular organism reproduction	0.613 %	-1.3314	0.78	0.62
GO:0048354	mucilage biosynthetic process involved in seed coat development	0.056 %	-1.3989	0.69	0.90
GO:0048825	cotyledon development	0.190 %	-3.5761	0.67	0.63
GO:0048827	phyllome development	1.921 %	-2.9336	0.66	0.69
GO:0048367	shoot system development	3.599 %	-1.6047	0.65	0.76
GO:0048366	leaf development	1.368 %	-1.9665	0.66	0.78
GO:0048364	root development	1.886 %	-1.1052	0.66	0.80
GO:0048359	mucilage metabolic process involved in seed coat development	0.086 %	-4.9309	0.69	0.55
GO:0048856	anatomical structure development	11.722 %	-2.5320	0.73	0.85
GO:0048316	seed development	2.305 %	-4.1009	0.63	0.85
GO:0009791	post-embryonic development	5.848 %	-3.7581	0.66	0.69
GO:0009793	embryo development ending in seed dormancy	1.584 %	-1.7824	0.63	0.92
GO:0022414	reproductive process	6.629 %	-3.0248	0.86	0.90
GO:0009965	leaf morphogenesis	0.380 %	-1.0935	0.67	0.79
GO:0061458	reproductive system development	4.674 %	-4.0886	0.65	0.80
GO:0048731	system development	7.225 %	-3.3035	0.65	0.74
<b>GO:0031537</b>	<b>regulation of anthocyanin metabolic process</b>	<b>0.095 %</b>	<b>-3.0788</b>	<b>0.81</b>	<b>0.08</b>
GO:0031539	positive regulation of anthocyanin metabolic process	0.022 %	-1.5150	0.81	0.87
GO:0031540	regulation of anthocyanin biosynthetic process	0.052 %	-2.3850	0.81	0.86
GO:0009718	anthocyanin-containing compound biosynthetic process	0.121 %	-2.4277	0.83	0.91
GO:0009813	flavonoid biosynthetic process	0.332 %	-1.6268	0.92	0.91

<a href="#">GO:0046148</a>	<i>pigment biosynthetic process</i>	0.639 %	-1.5935	0.85	0.85
<a href="#">GO:0009962</a>	<i>regulation of flavonoid biosynthetic process</i>	0.095 %	-1.6890	0.87	0.79
<a href="#">GO:0046283</a>	<i>anthocyanin-containing compound metabolic process</i>	0.190 %	-2.7169	0.84	0.83
<a href="#">GO:000374</a>	<b>Group III intron splicing</b>	<b>0.004 %</b>	<b>-2.2365</b>	<b>0.94</b>	<b>0.09</b>
<a href="#">GO:0008283</a>	<b>cell proliferation</b>	<b>0.470 %</b>	<b>-2.6936</b>	<b>0.89</b>	<b>0.09</b>
<a href="#">GO:0007015</a>	<b>actin filament organization</b>	<b>0.315 %</b>	<b>-2.1111</b>	<b>0.74</b>	<b>0.09</b>
<a href="#">GO:0008154</a>	<i>actin polymerization or depolymerization</i>	0.237 %	-1.4311	0.75	0.95
<a href="#">GO:0032970</a>	<i>regulation of actin filament-based process</i>	0.194 %	-1.6075	0.76	0.90
<a href="#">GO:0051493</a>	<i>regulation of cytoskeleton organization</i>	0.289 %	-1.4620	0.79	0.78
<a href="#">GO:0051017</a>	<i>actin filament bundle assembly</i>	0.086 %	-1.0101	0.75	0.88
<a href="#">GO:0061572</a>	<i>actin filament bundle organization</i>	0.086 %	-1.0101	0.76	0.88
<a href="#">GO:0030036</a>	<i>actin cytoskeleton organization</i>	0.354 %	-1.8359	0.74	0.95
<a href="#">GO:0046209</a>	<b>nitric oxide metabolic process</b>	<b>0.030 %</b>	<b>-1.0598</b>	<b>0.94</b>	<b>0.10</b>
<a href="#">GO:0006809</a>	<i>nitric oxide biosynthetic process</i>	0.022 %	-1.1710	0.93	0.75
<a href="#">GO:0046777</a>	<b>protein autophosphorylation</b>	<b>0.604 %</b>	<b>-1.0006</b>	<b>0.93</b>	<b>0.12</b>
<a href="#">GO:0006468</a>	<i>protein phosphorylation</i>	5.334 %	-1.1548	0.92	0.62
<a href="#">GO:0042127</a>	<b>regulation of cell proliferation</b>	<b>0.293 %</b>	<b>-1.9230</b>	<b>0.84</b>	<b>0.17</b>
<a href="#">GO:0008284</a>	<i>positive regulation of cell proliferation</i>	0.129 %	-1.8221	0.83	0.85
<a href="#">GO:0006383</a>	<b>transcription from RNA polymerase III promoter</b>	<b>0.147 %</b>	<b>-2.1120</b>	<b>0.92</b>	<b>0.17</b>
<a href="#">GO:0009682</a>	<b>induced systemic resistance</b>	<b>0.125 %</b>	<b>-1.4944</b>	<b>0.91</b>	<b>0.18</b>
<a href="#">GO:0071219</a>	<i>cellular response to molecule of bacterial origin</i>	0.030 %	-1.2769	0.87	0.54
<a href="#">GO:0030029</a>	<b>actin filament-based process</b>	<b>0.440 %</b>	<b>-1.7680</b>	<b>0.85</b>	<b>0.20</b>
<a href="#">GO:0080167</a>	<b>response to karrikin</b>	<b>0.531 %</b>	<b>-2.8222</b>	<b>0.90</b>	<b>0.21</b>
<a href="#">GO:0000160</a>	<b>phosphorelay signal transduction system</b>	<b>1.049 %</b>	<b>-1.6779</b>	<b>0.74</b>	<b>0.23</b>
<a href="#">GO:0048533</a>	<b>sporocyte differentiation</b>	<b>0.004 %</b>	<b>-1.0425</b>	<b>0.79</b>	<b>0.23</b>
<a href="#">GO:0042440</a>	<b>pigment metabolic process</b>	<b>0.785 %</b>	<b>-1.8852</b>	<b>0.87</b>	<b>0.23</b>
<a href="#">GO:0006636</a>	<b>unsaturated fatty acid biosynthetic process</b>	<b>0.108 %</b>	<b>-1.0872</b>	<b>0.83</b>	<b>0.24</b>
<a href="#">GO:0033559</a>	<i>unsaturated fatty acid metabolic process</i>	0.112 %	-1.0872	0.84	0.65
<a href="#">GO:1905328</a>	<b>plant septum development</b>	<b>0.009 %</b>	<b>-1.1829</b>	<b>0.84</b>	<b>0.24</b>
<a href="#">GO:0007049</a>	<b>cell cycle</b>	<b>2.525 %</b>	<b>-1.0917</b>	<b>0.83</b>	<b>0.25</b>
<a href="#">GO:0006260</a>	<b>DNA replication</b>	<b>0.665 %</b>	<b>-1.6704</b>	<b>0.88</b>	<b>0.26</b>
<a href="#">GO:0006310</a>	<i>DNA recombination</i>	0.656 %	-1.0825	0.89	0.71
<a href="#">GO:0042023</a>	<i>DNA endoreduplication</i>	0.160 %	-1.4412	0.77	0.62
<a href="#">GO:0006261</a>	<i>DNA-dependent DNA replication</i>	0.419 %	-1.2776	0.88	0.84
<a href="#">GO:0051726</a>	<i>regulation of cell cycle</i>	0.811 %	-1.3390	0.78	0.64
<a href="#">GO:0044786</a>	<i>cell cycle DNA replication</i>	0.181 %	-1.4361	0.77	0.86
<a href="#">GO:0032876</a>	<i>negative regulation of DNA endoreduplication</i>	0.030 %	-1.2923	0.76	0.87
<a href="#">GO:0032875</a>	<i>regulation of DNA endoreduplication</i>	0.086 %	-1.0511	0.75	0.93
<a href="#">GO:0008156</a>	<i>negative regulation of DNA replication</i>	0.039 %	-1.2478	0.83	0.88
<a href="#">GO:2000104</a>	<i>negative regulation of DNA-dependent DNA replication</i>	0.039 %	-1.2478	0.83	0.98
<a href="#">GO:0022402</a>	<i>cell cycle process</i>	1.713 %	-1.1456	0.80	0.81
<a href="#">GO:0000725</a>	<i>recombinational repair</i>	0.350 %	-1.0341	0.80	0.88
<a href="#">GO:0000724</a>	<i>double-strand break repair via homologous recombination</i>	0.345 %	-1.0341	0.80	0.67
<a href="#">GO:0006949</a>	<b>syncytium formation</b>	<b>0.043 %</b>	<b>-3.6510</b>	<b>0.73</b>	<b>0.27</b>
<a href="#">GO:0048598</a>	<i>embryonic morphogenesis</i>	0.125 %	-2.0829	0.72	0.56
<a href="#">GO:0048766</a>	<i>root hair initiation</i>	0.047 %	-1.2478	0.65	0.52
<a href="#">GO:1905393</a>	<i>plant organ formation</i>	0.427 %	-1.0916	0.76	0.73
<a href="#">GO:0048645</a>	<i>animal organ formation</i>	0.004 %	-1.8752	0.76	0.54
<a href="#">GO:0048646</a>	<i>anatomical structure formation involved in morphogenesis</i>	0.755 %	-3.1302	0.75	0.51
<a href="#">GO:0009887</a>	<i>animal organ morphogenesis</i>	0.004 %	-1.5637	0.77	1.00
<a href="#">GO:0090698</a>	<i>post-embryonic plant morphogenesis</i>	0.716 %	-1.7257	0.76	0.66
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-2.0214</b>	<b>0.90</b>	<b>0.29</b>
<a href="#">GO:0048513</a>	<b>animal organ development</b>	<b>0.004 %</b>	<b>-1.2047</b>	<b>0.79</b>	<b>0.30</b>
<a href="#">GO:0043254</a>	<b>regulation of protein complex assembly</b>	<b>0.298 %</b>	<b>-1.6539</b>	<b>0.81</b>	<b>0.30</b>
<a href="#">GO:0032271</a>	<i>regulation of protein polymerization</i>	0.186 %	-1.6539	0.81	0.87
<a href="#">GO:0031334</a>	<i>positive regulation of protein complex assembly</i>	0.190 %	-1.0024	0.80	0.92
<a href="#">GO:0051258</a>	<i>protein polymerization</i>	0.263 %	-1.1197	0.86	0.73
<a href="#">GO:0033043</a>	<i>regulation of organelle organization</i>	0.617 %	-1.0251	0.81	0.76
<a href="#">GO:0030041</a>	<i>actin filament polymerization</i>	0.168 %	-1.6204	0.73	0.93
<a href="#">GO:0032535</a>	<b>regulation of cellular component size</b>	<b>0.319 %</b>	<b>-1.5007</b>	<b>0.77</b>	<b>0.30</b>
<a href="#">GO:0032273</a>	<i>positive regulation of protein polymerization</i>	0.108 %	-1.0024	0.80	0.95
<a href="#">GO:0030832</a>	<i>regulation of actin filament length</i>	0.181 %	-1.6075	0.71	0.98
<a href="#">GO:0030833</a>	<i>regulation of actin filament polymerization</i>	0.164 %	-1.6539	0.70	0.94
<a href="#">GO:0045010</a>	<i>actin nucleation</i>	0.095 %	-1.0024	0.70	0.95
<a href="#">GO:0008064</a>	<i>regulation of actin polymerization or depolymerization</i>	0.181 %	-1.6075	0.71	0.99
<a href="#">GO:0032956</a>	<i>regulation of actin cytoskeleton organization</i>	0.194 %	-1.6075	0.72	0.99
<a href="#">GO:0030838</a>	<i>positive regulation of actin filament polymerization</i>	0.095 %	-1.0024	0.70	0.98
<a href="#">GO:0051016</a>	<i>barbed-end actin filament capping</i>	0.017 %	-1.2923	0.72	0.79
<a href="#">GO:0080006</a>	<b>internode patterning</b>	<b>0.009 %</b>	<b>-2.0155</b>	<b>0.76</b>	<b>0.31</b>
<a href="#">GO:0010588</a>	<i>cotyledon vascular tissue pattern formation</i>	0.060 %	-1.7724	0.67	0.58
<a href="#">GO:0010051</a>	<i>xylem and phloem pattern formation</i>	0.259 %	-1.2049	0.73	0.76
<a href="#">GO:0010086</a>	<i>embryonic root morphogenesis</i>	0.013 %	-1.2339	0.74	0.82

<a href="#">GO:0048439</a>	flower morphogenesis	0.022 %	-1.6382	0.71	0.62
<a href="#">GO:0048826</a>	cotyledon morphogenesis	0.073 %	-1.5111	0.67	0.91
<a href="#">GO:0048317</a>	seed morphogenesis	0.026 %	-1.1950	0.71	0.63
<a href="#">GO:0010305</a>	leaf vascular tissue pattern formation	0.117 %	-1.3501	0.75	0.84
<a href="#">GO:0071732</a>	<b>cellular response to nitric oxide</b>	<b>0.086 %</b>	<b>-1.8307</b>	<b>0.84</b>	<b>0.32</b>
<a href="#">GO:0071731</a>	response to nitric oxide	0.091 %	-1.7487	0.88	0.71
<a href="#">GO:0042631</a>	cellular response to water deprivation	0.129 %	-1.4464	0.82	0.51
<a href="#">GO:1902170</a>	cellular response to reactive nitrogen species	0.104 %	-1.5458	0.85	0.77
<a href="#">GO:0071462</a>	cellular response to water stimulus	0.129 %	-1.4464	0.83	0.70
<a href="#">GO:0034599</a>	cellular response to oxidative stress	0.453 %	-1.0224	0.83	0.62
<a href="#">GO:0034614</a>	cellular response to reactive oxygen species	0.207 %	-1.2047	0.83	0.81
<a href="#">GO:1902578</a>	<b>single-organism localization</b>	<b>5.481 %</b>	<b>-1.0436</b>	<b>0.81</b>	<b>0.33</b>
<a href="#">GO:0071836</a>	nectar secretion	0.017 %	-1.9368	0.87	0.33
<a href="#">GO:1902047</a>	<b>polyamine transmembrane transport</b>	<b>0.022 %</b>	<b>-1.6756</b>	<b>0.87</b>	<b>0.33</b>
<a href="#">GO:0002164</a>	larval development	0.009 %	-1.4416	0.78	0.34
<a href="#">GO:0061062</a>	<b>regulation of nematode larval development</b>	<b>0.009 %</b>	<b>-1.4416</b>	<b>0.74</b>	<b>0.34</b>
<a href="#">GO:0002119</a>	nematode larval development	0.009 %	-1.4416	0.78	1.00
<a href="#">GO:0007143</a>	<b>female meiotic division</b>	<b>0.022 %</b>	<b>-1.8127</b>	<b>0.74</b>	<b>0.36</b>
<a href="#">GO:0044843</a>	cell cycle G1/S phase transition	0.069 %	-1.3422	0.84	0.51
<a href="#">GO:0010948</a>	negative regulation of cell cycle process	0.117 %	-1.0511	0.79	0.57
<a href="#">GO:0000082</a>	G1/S transition of mitotic cell cycle	0.052 %	-1.3422	0.85	0.83
<a href="#">GO:0048457</a>	<b>floral whorl morphogenesis</b>	<b>0.004 %</b>	<b>-2.0155</b>	<b>0.73</b>	<b>0.36</b>
<a href="#">GO:0042493</a>	response to drug	0.367 %	-1.0511	0.89	0.37
<a href="#">GO:0001944</a>	<b>vasculature development</b>	<b>0.108 %</b>	<b>-1.4197</b>	<b>0.74</b>	<b>0.37</b>
<a href="#">GO:0072358</a>	cardiovascular system development	0.108 %	-1.4197	0.74	1.00
<a href="#">GO:0072359</a>	<b>circulatory system development</b>	<b>0.108 %</b>	<b>-1.4197</b>	<b>0.74</b>	<b>0.37</b>
<a href="#">GO:0009790</a>	embryo development	1.683 %	-1.6589	0.70	0.39
<a href="#">GO:0001736</a>	<b>establishment of planar polarity</b>	<b>0.013 %</b>	<b>-1.2206</b>	<b>0.77</b>	<b>0.39</b>
<a href="#">GO:0002009</a>	morphogenesis of an epithelium	0.013 %	-1.1484	0.77	1.00
<a href="#">GO:0001738</a>	morphogenesis of a polarized epithelium	0.013 %	-1.2206	0.77	1.00
<a href="#">GO:0009628</a>	response to abiotic stimulus	7.946 %	-1.3969	0.90	0.39
<a href="#">GO:0071216</a>	cellular response to biotic stimulus	0.052 %	-1.2076	0.89	0.39
<a href="#">GO:0048639</a>	<b>positive regulation of developmental growth</b>	<b>0.026 %</b>	<b>-1.3989</b>	<b>0.75</b>	<b>0.40</b>
<a href="#">GO:0046620</a>	regulation of organ growth	0.082 %	-1.0179	0.72	0.86
<a href="#">GO:0046622</a>	positive regulation of organ growth	0.017 %	-1.3989	0.74	0.81
<a href="#">GO:0010197</a>	<b>polar nucleus fusion</b>	<b>0.117 %</b>	<b>-1.3367</b>	<b>0.66</b>	<b>0.41</b>
<a href="#">GO:0009559</a>	embryo sac central cell differentiation	0.121 %	-1.3193	0.72	0.87
<a href="#">GO:0000741</a>	karyogamy	0.117 %	-1.3150	0.88	0.88
<a href="#">GO:0048729</a>	tissue morphogenesis	0.013 %	-1.1484	0.77	0.41
<a href="#">GO:0009630</a>	<b>gravitropism</b>	<b>0.281 %</b>	<b>-1.4205</b>	<b>0.89</b>	<b>0.42</b>
<a href="#">GO:0009959</a>	negative gravitropism	0.035 %	-1.3422	0.91	0.83
<a href="#">GO:0009958</a>	positive gravitropism	0.142 %	-1.2232	0.90	0.93
<a href="#">GO:0009313</a>	<b>oligosaccharide catabolic process</b>	<b>0.039 %</b>	<b>-1.8307</b>	<b>0.85</b>	<b>0.42</b>
<a href="#">GO:0046352</a>	disaccharide catabolic process	0.035 %	-1.0598	0.81	0.96
<a href="#">GO:0034484</a>	raffinose catabolic process	0.004 %	-1.0511	0.86	0.85
<a href="#">GO:0005987</a>	sucrose catabolic process	0.022 %	-1.1950	0.81	0.67
<a href="#">GO:0009629</a>	response to gravity	0.311 %	-1.3734	0.91	0.42
<a href="#">GO:0006997</a>	nucleus organization	0.255 %	-1.1939	0.88	0.44
<a href="#">GO:0009606</a>	tropism	0.341 %	-1.2183	0.91	0.45
<a href="#">GO:0010229</a>	inflorescence development	0.104 %	-1.1904	0.70	0.45
<a href="#">GO:0010068</a>	protoderm histogenesis	0.004 %	-1.5150	0.75	0.45
<a href="#">GO:0010076</a>	maintenance of floral meristem identity	0.026 %	-1.3791	0.77	0.50
<a href="#">GO:0010077</a>	maintenance of inflorescence meristem identity	0.039 %	-1.2478	0.76	0.80
<a href="#">GO:0042547</a>	cell wall modification involved in multidimensional cell growth	0.017 %	-1.0598	0.82	0.46
<a href="#">GO:0090066</a>	regulation of anatomical structure size	0.319 %	-1.5007	0.92	0.46
<a href="#">GO:1900056</a>	negative regulation of leaf senescence	0.043 %	-1.0179	0.68	0.46
<a href="#">GO:0048284</a>	organelle fusion	0.496 %	-1.2981	0.87	0.46
<a href="#">GO:0009639</a>	<b>response to red or far red light</b>	<b>0.872 %</b>	<b>-1.9599</b>	<b>0.89</b>	<b>0.47</b>
<a href="#">GO:0010224</a>	response to UV-B	0.298 %	-1.0589	0.90	0.66
<a href="#">GO:0009411</a>	response to UV	0.427 %	-1.2598	0.90	0.68
<a href="#">GO:0090351</a>	seedling development	0.660 %	-2.1279	0.71	0.47
<a href="#">GO:0031507</a>	<b>heterochromatin assembly</b>	<b>0.035 %</b>	<b>-1.1829</b>	<b>0.88</b>	<b>0.48</b>
<a href="#">GO:0070828</a>	heterochromatin organization	0.043 %	-1.1829	0.90	0.51
<a href="#">GO:0009888</a>	<b>tissue development</b>	<b>2.326 %</b>	<b>-1.4281</b>	<b>0.76</b>	<b>0.48</b>
<a href="#">GO:0009653</a>	anatomical structure morphogenesis	3.500 %	-1.4260	0.75	0.53
<a href="#">GO:0044087</a>	regulation of cellular component biogenesis	0.514 %	-1.1728	0.86	0.48
<a href="#">GO:0015846</a>	polyamine transport	0.026 %	-1.6039	0.86	0.49
<a href="#">GO:0010201</a>	response to continuous far red light stimulus by the high-irradiance response system	0.009 %	-1.0968	0.92	0.49
<a href="#">GO:0080126</a>	<b>ovary septum development</b>	<b>0.004 %</b>	<b>-1.7619</b>	<b>0.74</b>	<b>0.49</b>
<a href="#">GO:0048462</a>	carpel formation	0.026 %	-1.4197	0.69	0.65
<a href="#">GO:0048445</a>	carpel morphogenesis	0.035 %	-1.1484	0.69	0.78
<a href="#">GO:0010500</a>	transmitting tissue development	0.017 %	-1.3602	0.73	0.68
<a href="#">GO:0010480</a>	microsporocyte differentiation	0.244 %	-1.0425	0.63	0.70
<a href="#">GO:0048653</a>	anther development	0.224 %	-1.0116	0.67	0.93

<a href="#">GO:0080001</a>	<b>mucilage extrusion from seed coat</b>	<b>0.022 %</b>	<b>-3.6087</b>	<b>0.73</b>	<b>0.50</b>
<a href="#">GO:0048609</a>	<i>multicellular organismal reproductive process</i>	<i>0.587 %</i>	<i>-1.4281</i>	<i>0.78</i>	<i>0.75</i>
<a href="#">GO:0009845</a>	<i>seed germination</i>	<i>0.600 %</i>	<i>-2.2675</i>	<i>0.71</i>	<i>0.74</i>
<a href="#">GO:0017038</a>	<b>protein import</b>	<b>0.531 %</b>	<b>-1.8316</b>	<b>0.82</b>	<b>0.50</b>
<a href="#">GO:0034219</a>	<i>carbohydrate transmembrane transport</i>	<i>0.332 %</i>	<i>-1.5150</i>	<i>0.84</i>	<i>0.51</i>

Biological Process (307) Tag Clouds

Scatterplot &amp; Table Interactive Graph TreeMap

## GROUP 40

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %		-4.3800	0.87	0.00
<a href="#">GO:0048573</a>	<i>photoperiodism, flowering</i>	0.388 %		-1.3278	0.67	0.75
<a href="#">GO:0009641</a>	<i>shade avoidance</i>	0.069 %		-2.9312	0.90	0.63
<a href="#">GO:0009642</a>	<i>response to light intensity</i>	0.587 %		-1.7808	0.89	0.79
<a href="#">GO:0009643</a>	<i>photosynthetic acclimation</i>	0.035 %		-1.2558	0.91	0.60
<a href="#">GO:0009637</a>	<i>response to blue light</i>	0.341 %		-1.8913	0.89	0.74
<a href="#">GO:0009639</a>	<i>response to red or far red light</i>	0.872 %		-1.7900	0.88	0.83
<a href="#">GO:0009640</a>	<i>photomorphogenesis</i>	0.311 %		-1.9615	0.69	0.74
<a href="#">GO:0009645</a>	<i>response to low light intensity stimulus</i>	0.073 %		-1.0068	0.90	0.67
<a href="#">GO:0009648</a>	<i>photoperiodism</i>	0.427 %		-1.1430	0.89	0.76
<a href="#">GO:0009314</a>	<i>response to radiation</i>	2.892 %		-4.2886	0.88	0.65
<a href="#">GO:0080167</a>	<i>response to karrikin</i>	0.531 %		-1.4359	0.90	0.53
<a href="#">GO:0023052</a>	signaling	8.908 %		-1.2745	0.99	0.00
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %		-3.7587	0.99	0.00
<a href="#">GO:0032502</a>	developmental process	12.689 %		-3.8470	0.99	0.00
<a href="#">GO:0040007</a>	growth	2.529 %		-1.9151	0.99	0.00

<a href="#">GO:0044699</a>	single-organism process	41.709 %	-5.0085	1.00	0.00
<a href="#">GO:0045893</a>	positive regulation of transcription, DNA-templated	1.864 %	-2.2848	0.70	0.00
<a href="#">GO:0048522</a>	positive regulation of cellular process	3.582 %	-1.0373	0.76	0.87
<a href="#">GO:0032774</a>	RNA biosynthetic process	11.813 %	-2.8881	0.81	0.82
<a href="#">GO:0080090</a>	regulation of primary metabolic process	13.681 %	-2.2757	0.75	0.82
<a href="#">GO:0031323</a>	regulation of cellular metabolic process	13.906 %	-3.5019	0.73	0.78
<a href="#">GO:1902680</a>	positive regulation of RNA biosynthetic process	1.869 %	-2.2848	0.70	0.97
<a href="#">GO:0031328</a>	positive regulation of cellular biosynthetic process	2.102 %	-1.9736	0.71	0.97
<a href="#">GO:0031326</a>	regulation of cellular biosynthetic process	12.339 %	-2.2060	0.70	0.87
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %	-1.6951	0.73	0.95
<a href="#">GO:0051252</a>	regulation of RNA metabolic process	11.463 %	-3.4545	0.70	0.87
<a href="#">GO:2001141</a>	regulation of RNA biosynthetic process	11.282 %	-3.6053	0.68	0.88
<a href="#">GO:0019219</a>	regulation of nucleobase-containing compound metabolic process	11.700 %	-3.2486	0.70	0.84
<a href="#">GO:0051254</a>	positive regulation of RNA metabolic process	1.912 %	-2.2848	0.71	0.96
<a href="#">GO:0016070</a>	RNA metabolic process	17.562 %	-1.1653	0.84	0.66
<a href="#">GO:0045935</a>	positive regulation of nucleobase-containing compound metabolic process	2.007 %	-2.1932	0.71	0.96
<a href="#">GO:0010628</a>	positive regulation of gene expression	2.050 %	-2.1216	0.74	0.90
<a href="#">GO:0006355</a>	regulation of transcription, DNA-templated	11.234 %	-3.6053	0.68	0.63
<a href="#">GO:0006351</a>	transcription, DNA-templated	11.709 %	-2.8881	0.81	0.87
<a href="#">GO:0010604</a>	positive regulation of macromolecule metabolic process	2.672 %	-1.7485	0.74	0.92
<a href="#">GO:0010556</a>	regulation of macromolecule biosynthetic process	12.076 %	-2.7802	0.71	0.86
<a href="#">GO:0010557</a>	positive regulation of macromolecule biosynthetic process	2.007 %	-2.0771	0.72	0.95
<a href="#">GO:0010468</a>	regulation of gene expression	12.706 %	-2.2889	0.74	0.80
<a href="#">GO:2000112</a>	regulation of cellular macromolecule biosynthetic process	12.003 %	-2.7972	0.69	0.86
<a href="#">GO:0060255</a>	regulation of macromolecule metabolic process	14.091 %	-1.9955	0.74	0.83
<a href="#">GO:1903508</a>	positive regulation of nucleic acid-templated transcription	1.869 %	-2.2848	0.70	0.98
<a href="#">GO:1903506</a>	regulation of nucleic acid-templated transcription	11.282 %	-3.6053	0.68	0.89
<a href="#">GO:0097659</a>	nucleic acid-templated transcription	11.761 %	-2.8881	0.81	0.88
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-1.5264	0.76	0.79
<a href="#">GO:0009891</a>	positive regulation of biosynthetic process	2.145 %	-1.9444	0.73	0.89
<a href="#">GO:0009889</a>	regulation of biosynthetic process	12.408 %	-1.9421	0.72	0.80
<a href="#">GO:0051173</a>	positive regulation of nitrogen compound metabolic process	2.119 %	-1.9989	0.74	0.88
<a href="#">GO:0034654</a>	nucleobase-containing compound biosynthetic process	13.056 %	-2.0482	0.82	0.80
<a href="#">GO:0051171</a>	regulation of nitrogen compound metabolic process	12.430 %	-2.8797	0.74	0.80
<a href="#">GO:0050896</a>	response to stimulus	25.943 %	-5.3613	1.00	0.00
<a href="#">GO:0051704</a>	multi-organism process	3.362 %	-1.2801	0.99	0.00
<a href="#">GO:0065007</a>	biological regulation	28.554 %	-2.6835	1.00	0.00
<a href="#">GO:1905392</a>	plant organ morphogenesis	1.485 %	-4.4799	0.71	0.00
<a href="#">GO:0044707</a>	single-multicellular organism process	10.699 %	-4.2207	0.75	0.86
<a href="#">GO:0080110</a>	sporopollenin biosynthetic process	0.030 %	-1.2404	0.69	0.72
<a href="#">GO:0099402</a>	plant organ development	3.763 %	-3.2956	0.71	0.65
<a href="#">GO:0003006</a>	developmental process involved in reproduction	5.611 %	-1.0803	0.79	0.58
<a href="#">GO:0044767</a>	single-organism developmental process	12.123 %	-3.7182	0.72	0.82
<a href="#">GO:0022622</a>	root system development	1.895 %	-1.2615	0.73	0.67
<a href="#">GO:0010102</a>	lateral root morphogenesis	0.229 %	-1.4536	0.72	0.97
<a href="#">GO:0010101</a>	post-embryonic root morphogenesis	0.233 %	-1.4536	0.72	0.88
<a href="#">GO:0048598</a>	embryonic morphogenesis	0.125 %	-1.1289	0.77	0.59
<a href="#">GO:0050793</a>	regulation of developmental process	2.577 %	-1.1420	0.70	0.51
<a href="#">GO:0007275</a>	multicellular organism development	10.423 %	-4.3730	0.70	0.72
<a href="#">GO:0010094</a>	specification of carpel identity	0.013 %	-1.6385	0.75	0.69
<a href="#">GO:0048462</a>	carpel formation	0.026 %	-1.3830	0.75	0.93
<a href="#">GO:0048437</a>	floral organ development	0.872 %	-1.0949	0.72	0.71
<a href="#">GO:0048444</a>	floral organ morphogenesis	0.181 %	-1.1996	0.72	0.88
<a href="#">GO:0048448</a>	stamen morphogenesis	0.047 %	-1.0240	0.74	0.87
<a href="#">GO:0048446</a>	petal morphogenesis	0.026 %	-1.1467	0.75	0.83
<a href="#">GO:0048445</a>	carpel morphogenesis	0.035 %	-1.1123	0.75	0.85
<a href="#">GO:0048451</a>	petal formation	0.009 %	-1.3622	0.77	0.75
<a href="#">GO:0048449</a>	floral organ formation	0.104 %	-1.5320	0.73	0.80
<a href="#">GO:0009653</a>	anatomical structure morphogenesis	3.500 %	-3.0199	0.80	0.50
<a href="#">GO:0010015</a>	root morphogenesis	0.967 %	-1.8182	0.71	0.82
<a href="#">GO:0010016</a>	shoot system morphogenesis	0.708 %	-2.0578	0.73	0.71
<a href="#">GO:0048281</a>	inflorescence morphogenesis	0.013 %	-1.2114	0.77	0.68
<a href="#">GO:1905393</a>	plant organ formation	0.427 %	-3.8939	0.80	0.67
<a href="#">GO:0048826</a>	cotyledon morphogenesis	0.073 %	-1.4427	0.74	0.77
<a href="#">GO:0048827</a>	phyllome development	1.921 %	-2.1562	0.71	0.77
<a href="#">GO:0048367</a>	shoot system development	3.599 %	-1.2828	0.72	0.74
<a href="#">GO:0048366</a>	leaf development	1.368 %	-2.2374	0.72	0.78
<a href="#">GO:0048364</a>	root development	1.886 %	-1.2708	0.71	0.90

<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-3.6774	0.78	0.85
<a href="#">GO:0009791</a>	<i>post-embryonic development</i>	5.848 %	-2.2970	0.72	0.78
<a href="#">GO:0048646</a>	<i>anatomical structure formation involved in morphogenesis</i>	0.755 %	-2.8867	0.80	0.71
<a href="#">GO:0010311</a>	<i>lateral root formation</i>	0.168 %	-1.8864	0.73	0.83
<a href="#">GO:0009888</a>	<i>tissue development</i>	2.326 %	-1.8763	0.81	0.53
<a href="#">GO:0009886</a>	<i>post-embryonic animal morphogenesis</i>	0.526 %	-1.4278	0.74	0.68
<a href="#">GO:0090697</a>	<i>post-embryonic plant organ morphogenesis</i>	0.419 %	-2.2570	0.72	0.67
<a href="#">GO:0090698</a>	<i>post-embryonic plant morphogenesis</i>	0.716 %	-3.5503	0.80	0.71
<a href="#">GO:0090696</a>	<i>post-embryonic plant organ development</i>	0.686 %	-1.5109	0.74	0.69
<a href="#">GO:0009965</a>	<i>leaf morphogenesis</i>	0.380 %	-2.2948	0.73	0.79
<a href="#">GO:0048229</a>	<i>gametophyte development</i>	1.653 %	-1.5779	0.75	0.51
<a href="#">GO:0048731</a>	<i>system development</i>	7.225 %	-2.3844	0.71	0.82
<a href="#">GO:0010166</a>	<b>wax metabolic process</b>	<b>0.082 %</b>	<b>-1.3389</b>	<b>0.97</b>	<b>0.05</b>
<a href="#">GO:0042547</a>	<b>cell wall modification involved in multidimensional cell growth</b>	<b>0.017 %</b>	<b>-2.3475</b>	<b>0.85</b>	<b>0.08</b>
<a href="#">GO:0042545</a>	<i>cell wall modification</i>	0.561 %	-1.6654	0.93	0.52
<a href="#">GO:0016049</a>	<i>cell growth</i>	1.519 %	-2.0577	0.82	0.56
<a href="#">GO:0045926</a>	<i>negative regulation of growth</i>	0.121 %	-1.5844	0.84	0.66
<a href="#">GO:0045927</a>	<i>positive regulation of growth</i>	0.104 %	-1.6410	0.82	0.65
<a href="#">GO:0030308</a>	<i>negative regulation of cell growth</i>	0.043 %	-2.2299	0.76	0.60
<a href="#">GO:0071555</a>	<i>cell wall organization</i>	2.430 %	-1.4672	0.92	0.80
<a href="#">GO:0009825</a>	<i>multidimensional cell growth</i>	0.091 %	-1.3684	0.85	0.64
<a href="#">GO:0001558</a>	<i>regulation of cell growth</i>	0.293 %	-1.3532	0.75	0.72
<a href="#">GO:0040008</a>	<i>regulation of growth</i>	1.148 %	-1.5889	0.83	0.83
<a href="#">GO:0032973</a>	<b>amino acid export</b>	<b>0.082 %</b>	<b>-4.4030</b>	<b>0.80</b>	<b>0.09</b>
<a href="#">GO:0006820</a>	<i>anion transport</i>	1.524 %	-1.3016	0.89	0.54
<a href="#">GO:0006868</a>	<i>glutamine transport</i>	0.026 %	-1.7248	0.82	0.71
<a href="#">GO:0006865</a>	<i>amino acid transport</i>	0.419 %	-3.5872	0.79	0.79
<a href="#">GO:1905039</a>	<i>carboxylic acid transmembrane transport</i>	0.505 %	-1.1235	0.78	0.96
<a href="#">GO:0043090</a>	<i>amino acid import</i>	0.056 %	-3.0971	0.81	0.75
<a href="#">GO:0046942</a>	<i>carboxylic acid transport</i>	0.682 %	-1.8469	0.78	0.95
<a href="#">GO:0010585</a>	<i>glutamine secretion</i>	0.004 %	-1.7248	0.80	0.77
<a href="#">GO:0032890</a>	<i>regulation of organic acid transport</i>	0.030 %	-1.6795	0.75	0.65
<a href="#">GO:1903825</a>	<i>organic acid transmembrane transport</i>	0.505 %	-1.1235	0.79	0.96
<a href="#">GO:0051955</a>	<i>regulation of amino acid transport</i>	0.030 %	-1.6795	0.74	1.00
<a href="#">GO:0051952</a>	<i>regulation of amine transport</i>	0.030 %	-1.6795	0.80	0.96
<a href="#">GO:0003333</a>	<i>amino acid transmembrane transport</i>	0.337 %	-1.1235	0.78	0.89
<a href="#">GO:0015827</a>	<i>tryptophan transport</i>	0.004 %	-1.4522	0.84	0.64
<a href="#">GO:0015800</a>	<i>acidic amino acid transport</i>	0.035 %	-1.1015	0.81	0.72
<a href="#">GO:0015804</a>	<i>neutral amino acid transport</i>	0.086 %	-2.4433	0.80	0.79
<a href="#">GO:0015801</a>	<i>aromatic amino acid transport</i>	0.017 %	-1.4522	0.82	0.69
<a href="#">GO:0015802</a>	<i>basic amino acid transport</i>	0.035 %	-1.1588	0.81	0.72
<a href="#">GO:0015809</a>	<i>arginine transport</i>	0.017 %	-1.1713	0.82	0.69
<a href="#">GO:0015810</a>	<i>aspartate transport</i>	0.009 %	-1.4522	0.83	0.66
<a href="#">GO:0015837</a>	<i>amine transport</i>	0.043 %	-1.6795	0.89	0.56
<a href="#">GO:0080143</a>	<i>regulation of amino acid export</i>	0.030 %	-1.6795	0.74	0.72
<a href="#">GO:0015711</a>	<i>organic anion transport</i>	0.945 %	-1.7813	0.86	0.81
<a href="#">GO:0015714</a>	<i>phosphoenolpyruvate transport</i>	0.017 %	-1.2558	0.83	0.63
<a href="#">GO:0015979</a>	<b>photosynthesis</b>	<b>1.057 %</b>	<b>-1.1226</b>	<b>0.94</b>	<b>0.10</b>
<a href="#">GO:0008283</a>	<b>cell proliferation</b>	<b>0.470 %</b>	<b>-1.7869</b>	<b>0.91</b>	<b>0.11</b>
<a href="#">GO:0019748</a>	<b>secondary metabolic process</b>	<b>1.938 %</b>	<b>-3.1971</b>	<b>0.85</b>	<b>0.13</b>
<a href="#">GO:0051100</a>	<b>negative regulation of binding</b>	<b>0.004 %</b>	<b>-1.6795</b>	<b>0.91</b>	<b>0.13</b>
<a href="#">GO:0043392</a>	<i>negative regulation of DNA binding</i>	0.004 %	-1.6795	0.91	0.84
<a href="#">GO:0051101</a>	<i>regulation of DNA binding</i>	0.017 %	-1.5351	0.90	0.84
<a href="#">GO:0071291</a>	<b>cellular response to selenium ion</b>	<b>0.004 %</b>	<b>-2.1992</b>	<b>0.90</b>	<b>0.15</b>
<a href="#">GO:0080144</a>	<b>amino acid homeostasis</b>	<b>0.060 %</b>	<b>-2.1992</b>	<b>0.91</b>	<b>0.16</b>
<a href="#">GO:0030155</a>	<b>regulation of cell adhesion</b>	<b>0.009 %</b>	<b>-1.6385</b>	<b>0.91</b>	<b>0.16</b>
<a href="#">GO:0051301</a>	<b>cell division</b>	<b>1.528 %</b>	<b>-1.2146</b>	<b>0.85</b>	<b>0.18</b>
<a href="#">GO:1901334</a>	<b>lactone metabolic process</b>	<b>0.026 %</b>	<b>-1.2404</b>	<b>0.93</b>	<b>0.19</b>
<a href="#">GO:0044763</a>	<b>single-organism cellular process</b>	<b>23.034 %</b>	<b>-1.3313</b>	<b>0.84</b>	<b>0.19</b>
<a href="#">GO:0010025</a>	<b>wax biosynthetic process</b>	<b>0.078 %</b>	<b>-1.3993</b>	<b>0.94</b>	<b>0.19</b>
<a href="#">GO:0002764</a>	<b>immune response-regulating signaling pathway</b>	<b>0.022 %</b>	<b>-1.1713</b>	<b>0.78</b>	<b>0.20</b>
<a href="#">GO:0002218</a>	<i>activation of innate immune response</i>	0.155 %	-1.1325	0.78	0.73
<a href="#">GO:0002253</a>	<i>activation of immune response</i>	0.155 %	-1.1325	0.78	0.92
<a href="#">GO:0007043</a>	<b>cell-cell junction assembly</b>	<b>0.022 %</b>	<b>-1.7248</b>	<b>0.87</b>	<b>0.20</b>
<a href="#">GO:0034329</a>	<i>cell junction assembly</i>	0.026 %	-1.3425	0.87	0.94
<a href="#">GO:0045216</a>	<i>cell-cell junction organization</i>	0.039 %	-1.1713	0.87	0.97
<a href="#">GO:0006083</a>	<b>acetate metabolic process</b>	<b>0.009 %</b>	<b>-1.3236</b>	<b>0.87</b>	<b>0.21</b>
<a href="#">GO:0051302</a>	<b>regulation of cell division</b>	<b>0.199 %</b>	<b>-1.8814</b>	<b>0.79</b>	<b>0.23</b>
<a href="#">GO:0009786</a>	<i>regulation of asymmetric cell division</i>	0.017 %	-1.4781	0.82	0.55
<a href="#">GO:0008356</a>	<i>asymmetric cell division</i>	0.091 %	-1.7264	0.88	0.62
<a href="#">GO:0065009</a>	<b>regulation of molecular function</b>	<b>2.443 %</b>	<b>-1.1944</b>	<b>0.87</b>	<b>0.23</b>



<a href="#">GO:0042127</a>	<b>regulation of cell proliferation</b>	<b>0.293 %</b>	<b>-1.0281</b>	<b>0.81</b>	<b>0.24</b>
<a href="#">GO:0007346</a>	<b>regulation of mitotic cell cycle</b>	<b>0.306 %</b>	<b>-1.7347</b>	<b>0.76</b>	<b>0.24</b>
<a href="#">GO:0042023</a>	<i>DNA endoreduplication</i>	<i>0.160 %</i>	<i>-1.3735</i>	<i>0.79</i>	<i>0.59</i>
<a href="#">GO:0006261</a>	<i>DNA-dependent DNA replication</i>	<i>0.419 %</i>	<i>-1.2115</i>	<i>0.88</i>	<i>0.84</i>
<a href="#">GO:0045930</a>	<i>negative regulation of mitotic cell cycle</i>	<i>0.108 %</i>	<i>-1.1713</i>	<i>0.76</i>	<i>0.82</i>
<a href="#">GO:0044786</a>	<i>cell cycle DNA replication</i>	<i>0.181 %</i>	<i>-1.3684</i>	<i>0.79</i>	<i>0.86</i>
<a href="#">GO:0044839</a>	<i>cell cycle G2/M phase transition</i>	<i>0.091 %</i>	<i>-1.3425</i>	<i>0.85</i>	<i>0.87</i>
<a href="#">GO:1902749</a>	<i>regulation of cell cycle G2/M phase transition</i>	<i>0.082 %</i>	<i>-1.3425</i>	<i>0.77</i>	<i>0.98</i>
<a href="#">GO:1901987</a>	<i>regulation of cell cycle phase transition</i>	<i>0.164 %</i>	<i>-1.0068</i>	<i>0.76</i>	<i>0.95</i>
<a href="#">GO:1901990</a>	<i>regulation of mitotic cell cycle phase transition</i>	<i>0.147 %</i>	<i>-1.0068</i>	<i>0.76</i>	<i>0.94</i>
<a href="#">GO:0007135</a>	<i>meiosis II</i>	<i>0.073 %</i>	<i>-1.4278</i>	<i>0.82</i>	<i>0.55</i>
<a href="#">GO:0010389</a>	<i>regulation of G2/M transition of mitotic cell cycle</i>	<i>0.078 %</i>	<i>-1.3425</i>	<i>0.77</i>	<i>0.74</i>
<a href="#">GO:0000086</a>	<i>G2/M transition of mitotic cell cycle</i>	<i>0.086 %</i>	<i>-1.3425</i>	<i>0.85</i>	<i>0.99</i>
<a href="#">GO:0009733</a>	<b>response to auxin</b>	<b>1.709 %</b>	<b>-3.3967</b>	<b>0.87</b>	<b>0.26</b>
<a href="#">GO:0044700</a>	<i>single organism signaling</i>	<i>8.899 %</i>	<i>-1.2759</i>	<i>0.86</i>	<i>0.91</i>
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	<i>6.504 %</i>	<i>-1.3553</i>	<i>0.86</i>	<i>0.70</i>
<a href="#">GO:0032870</a>	<i>cellular response to hormone stimulus</i>	<i>3.871 %</i>	<i>-1.7083</i>	<i>0.81</i>	<i>0.94</i>
<a href="#">GO:0033993</a>	<i>response to lipid</i>	<i>3.267 %</i>	<i>-1.5616</i>	<i>0.86</i>	<i>0.60</i>
<a href="#">GO:0071365</a>	<i>cellular response to auxin stimulus</i>	<i>0.932 %</i>	<i>-1.4585</i>	<i>0.84</i>	<i>0.85</i>
<a href="#">GO:0070887</a>	<i>cellular response to chemical stimulus</i>	<i>5.287 %</i>	<i>-1.9488</i>	<i>0.83</i>	<i>0.68</i>
<a href="#">GO:0071310</a>	<i>cellular response to organic substance</i>	<i>4.601 %</i>	<i>-1.4492</i>	<i>0.81</i>	<i>0.87</i>
<a href="#">GO:0007165</a>	<i>signal transduction</i>	<i>8.731 %</i>	<i>-1.2843</i>	<i>0.63</i>	<i>0.77</i>
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	<i>8.580 %</i>	<i>-3.0963</i>	<i>0.86</i>	<i>0.62</i>
<a href="#">GO:0001101</a>	<i>response to acid chemical</i>	<i>5.011 %</i>	<i>-1.1604</i>	<i>0.87</i>	<i>0.67</i>
<a href="#">GO:0009755</a>	<i>hormone-mediated signaling pathway</i>	<i>3.617 %</i>	<i>-1.9034</i>	<i>0.63</i>	<i>0.68</i>
<a href="#">GO:0009751</a>	<i>response to salicylic acid</i>	<i>0.876 %</i>	<i>-1.0132</i>	<i>0.87</i>	<i>0.79</i>
<a href="#">GO:0009741</a>	<i>response to brassinosteroid</i>	<i>0.410 %</i>	<i>-2.3879</i>	<i>0.88</i>	<i>0.63</i>
<a href="#">GO:0009739</a>	<i>response to gibberellin</i>	<i>0.626 %</i>	<i>-2.5779</i>	<i>0.87</i>	<i>0.55</i>
<a href="#">GO:0009734</a>	<i>auxin-activated signaling pathway</i>	<i>0.868 %</i>	<i>-1.7026</i>	<i>0.68</i>	<i>0.77</i>
<a href="#">GO:0009735</a>	<i>response to cytokinin</i>	<i>1.010 %</i>	<i>-1.1254</i>	<i>0.87</i>	<i>0.58</i>
<a href="#">GO:0009725</a>	<i>response to hormone</i>	<i>6.871 %</i>	<i>-3.7305</i>	<i>0.84</i>	<i>0.82</i>
<a href="#">GO:0009788</a>	<i>negative regulation of abscisic acid-activated signaling pathway</i>	<i>0.160 %</i>	<i>-1.1047</i>	<i>0.70</i>	<i>0.57</i>
<a href="#">GO:0071446</a>	<i>cellular response to salicylic acid stimulus</i>	<i>0.242 %</i>	<i>-1.5377</i>	<i>0.85</i>	<i>0.71</i>
<a href="#">GO:0014070</a>	<i>response to organic cyclic compound</i>	<i>1.606 %</i>	<i>-2.2695</i>	<i>0.87</i>	<i>0.55</i>
<a href="#">GO:1901420</a>	<i>negative regulation of response to alcohol</i>	<i>0.160 %</i>	<i>-1.1047</i>	<i>0.78</i>	<i>0.88</i>
<a href="#">GO:0071495</a>	<i>cellular response to endogenous stimulus</i>	<i>3.988 %</i>	<i>-1.6657</i>	<i>0.88</i>	<i>0.74</i>
<a href="#">GO:0009410</a>	<b>response to xenobiotic stimulus</b>	<b>0.013 %</b>	<b>-2.0870</b>	<b>0.92</b>	<b>0.28</b>
<a href="#">GO:0006805</a>	<b>xenobiotic metabolic process</b>	<b>0.009 %</b>	<b>-1.4048</b>	<b>0.87</b>	<b>0.29</b>
<a href="#">GO:0042178</a>	<i>xenobiotic catabolic process</i>	<i>0.004 %</i>	<i>-1.5056</i>	<i>0.87</i>	<i>0.96</i>
<a href="#">GO:0071466</a>	<i>cellular response to xenobiotic stimulus</i>	<i>0.009 %</i>	<i>-1.4048</i>	<i>0.89</i>	<i>0.96</i>
<a href="#">GO:0045229</a>	<b>external encapsulating structure organization</b>	<b>2.577 %</b>	<b>-1.6116</b>	<b>0.93</b>	<b>0.29</b>
<a href="#">GO:0016043</a>	<i>cellular component organization</i>	<i>13.263 %</i>	<i>-1.1975</i>	<i>0.92</i>	<i>0.58</i>
<a href="#">GO:0009698</a>	<b>phenylpropanoid metabolic process</b>	<b>0.505 %</b>	<b>-3.2872</b>	<b>0.80</b>	<b>0.30</b>
<a href="#">GO:0044550</a>	<i>secondary metabolite biosynthetic process</i>	<i>1.183 %</i>	<i>-2.8904</i>	<i>0.80</i>	<i>0.80</i>
<a href="#">GO:0009699</a>	<i>phenylpropanoid biosynthetic process</i>	<i>0.337 %</i>	<i>-3.0974</i>	<i>0.78</i>	<i>0.70</i>
<a href="#">GO:0009808</a>	<i>lignin metabolic process</i>	<i>0.285 %</i>	<i>-2.0436</i>	<i>0.81</i>	<i>0.91</i>
<a href="#">GO:0009809</a>	<i>lignin biosynthetic process</i>	<i>0.181 %</i>	<i>-1.5996</i>	<i>0.79</i>	<i>0.88</i>
<a href="#">GO:0010345</a>	<i>suberin biosynthetic process</i>	<i>0.060 %</i>	<i>-2.8322</i>	<i>0.81</i>	<i>0.80</i>
<a href="#">GO:0016143</a>	<b>S-glycoside metabolic process</b>	<b>0.514 %</b>	<b>-1.7101</b>	<b>0.83</b>	<b>0.30</b>
<a href="#">GO:0016144</a>	<i>S-glycoside biosynthetic process</i>	<i>0.194 %</i>	<i>-1.2717</i>	<i>0.81</i>	<i>0.81</i>
<a href="#">GO:0009759</a>	<i>indole glucosinolate biosynthetic process</i>	<i>0.026 %</i>	<i>-1.2717</i>	<i>0.81</i>	<i>0.74</i>
<a href="#">GO:0042343</a>	<i>indole glucosinolate metabolic process</i>	<i>0.125 %</i>	<i>-1.7101</i>	<i>0.80</i>	<i>0.70</i>
<a href="#">GO:0000103</a>	<i>sulfate assimilation</i>	<i>0.060 %</i>	<i>-1.0909</i>	<i>0.94</i>	<i>0.66</i>
<a href="#">GO:0048518</a>	<b>positive regulation of biological process</b>	<b>4.398 %</b>	<b>-1.9254</b>	<b>0.84</b>	<b>0.30</b>
<a href="#">GO:0051707</a>	<b>response to other organism</b>	<b>4.968 %</b>	<b>-1.8707</b>	<b>0.89</b>	<b>0.30</b>
<a href="#">GO:0043207</a>	<i>response to external biotic stimulus</i>	<i>4.981 %</i>	<i>-1.8707</i>	<i>0.89</i>	<i>0.94</i>
<a href="#">GO:0016045</a>	<i>detection of bacterium</i>	<i>0.013 %</i>	<i>-1.3236</i>	<i>0.92</i>	<i>0.95</i>
<a href="#">GO:0009624</a>	<i>response to nematode</i>	<i>0.306 %</i>	<i>-1.4516</i>	<i>0.91</i>	<i>0.65</i>
<a href="#">GO:0009595</a>	<i>detection of biotic stimulus</i>	<i>0.030 %</i>	<i>-1.1976</i>	<i>0.92</i>	<i>0.67</i>
<a href="#">GO:0098543</a>	<i>detection of other organism</i>	<i>0.017 %</i>	<i>-1.3236</i>	<i>0.92</i>	<i>0.97</i>
<a href="#">GO:0098581</a>	<i>detection of external biotic stimulus</i>	<i>0.030 %</i>	<i>-1.1976</i>	<i>0.92</i>	<i>0.51</i>
<a href="#">GO:0034330</a>	<b>cell junction organization</b>	<b>0.039 %</b>	<b>-1.1713</b>	<b>0.88</b>	<b>0.30</b>
<a href="#">GO:0034389</a>	<b>lipid particle organization</b>	<b>0.039 %</b>	<b>-1.2558</b>	<b>0.95</b>	<b>0.30</b>
<a href="#">GO:0043467</a>	<b>regulation of generation of precursor metabolites and energy</b>	<b>0.117 %</b>	<b>-1.3735</b>	<b>0.83</b>	<b>0.32</b>
<a href="#">GO:0042793</a>	<b>transcription from plastid promoter</b>	<b>0.039 %</b>	<b>-1.3425</b>	<b>0.89</b>	<b>0.32</b>
<a href="#">GO:0010109</a>	<b>regulation of photosynthesis</b>	<b>0.160 %</b>	<b>-2.0092</b>	<b>0.82</b>	<b>0.33</b>
<a href="#">GO:0042548</a>	<i>regulation of photosynthesis, light reaction</i>	<i>0.108 %</i>	<i>-1.4540</i>	<i>0.81</i>	<i>0.92</i>
<a href="#">GO:0010205</a>	<i>photoinhibition</i>	<i>0.060 %</i>	<i>-1.6051</i>	<i>0.68</i>	<i>0.95</i>
<a href="#">GO:0043155</a>	<i>negative regulation of photosynthesis, light reaction</i>	<i>0.060 %</i>	<i>-1.6051</i>	<i>0.81</i>	<i>0.97</i>
<a href="#">GO:0009767</a>	<i>photosynthetic electron transport chain</i>	<i>0.224 %</i>	<i>-1.0341</i>	<i>0.82</i>	<i>0.79</i>

<a href="#">GO:0019684</a>	photosynthesis, light reaction	0.505 %	-1.0953	0.91	0.77
<a href="#">GO:1905156</a>	negative regulation of photosynthesis	0.073 %	-1.5256	0.81	0.66
<a href="#">GO:0010269</a>	response to selenium ion	0.009 %	-1.8995	0.92	0.33
<a href="#">GO:0019048</a>	modulation by virus of host morphology or physiology	0.017 %	-1.1349	0.90	0.33
<a href="#">GO:0009299</a>	mRNA transcription	0.060 %	-1.1713	0.89	0.33
<a href="#">GO:0048519</a>	negative regulation of biological process	3.716 %	-1.0586	0.84	0.33
<a href="#">GO:0071705</a>	nitrogen compound transport	1.515 %	-2.3228	0.91	0.34
<a href="#">GO:0006811</a>	ion transport	4.174 %	-1.3352	0.90	0.52
<a href="#">GO:1902578</a>	single-organism localization	5.481 %	-1.1993	0.82	0.60
<a href="#">GO:0007029</a>	endoplasmic reticulum organization	0.073 %	-1.1349	0.95	0.34
<a href="#">GO:0048513</a>	animal organ development	0.004 %	-1.1396	0.83	0.34
<a href="#">GO:0046417</a>	chorismate metabolic process	0.056 %	-1.1588	0.85	0.35
<a href="#">GO:0009423</a>	chorismate biosynthetic process	0.039 %	-1.2257	0.83	0.73
<a href="#">GO:0009719</a>	response to endogenous stimulus	7.359 %	-2.9836	0.89	0.36
<a href="#">GO:0009956</a>	radial pattern formation	0.078 %	-1.6193	0.79	0.36
<a href="#">GO:0003002</a>	regionalization	0.617 %	-1.4143	0.76	0.79
<a href="#">GO:0060774</a>	auxin mediated signaling pathway involved in phyllotactic patterning	0.009 %	-1.2558	0.68	0.79
<a href="#">GO:0060771</a>	phyllotactic patterning	0.017 %	-1.1976	0.81	0.64
<a href="#">GO:0060772</a>	leaf phyllotactic patterning	0.013 %	-1.2114	0.81	0.95
<a href="#">GO:0044347</a>	cell wall polysaccharide catabolic process	0.004 %	-1.4781	0.93	0.36
<a href="#">GO:0000272</a>	polysaccharide catabolic process	0.777 %	-1.2633	0.94	0.52
<a href="#">GO:0045490</a>	pectin catabolic process	0.423 %	-1.3437	0.94	0.85
<a href="#">GO:0016998</a>	cell wall macromolecule catabolic process	0.112 %	-1.0909	0.92	0.59
<a href="#">GO:0009607</a>	response to biotic stimulus	5.158 %	-2.2621	0.90	0.36
<a href="#">GO:0046717</a>	acid secretion	0.026 %	-1.7248	0.86	0.36
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-1.3445	0.90	0.37
<a href="#">GO:0019438</a>	aromatic compound biosynthetic process	14.247 %	-4.6389	0.85	0.38
<a href="#">GO:0018130</a>	heterocycle biosynthetic process	14.014 %	-2.0170	0.85	0.58
<a href="#">GO:1901362</a>	organic cyclic compound biosynthetic process	14.769 %	-4.1233	0.86	0.55
<a href="#">GO:0009628</a>	response to abiotic stimulus	7.946 %	-2.3985	0.89	0.39
<a href="#">GO:0006521</a>	regulation of cellular amino acid metabolic process	0.060 %	-1.1467	0.77	0.40
<a href="#">GO:0051098</a>	regulation of binding	0.039 %	-1.4522	0.90	0.40
<a href="#">GO:0044092</a>	negative regulation of molecular function	1.070 %	-1.2833	0.87	0.58
<a href="#">GO:0040009</a>	regulation of growth rate	0.013 %	-1.4278	0.88	0.41
<a href="#">GO:0046459</a>	short-chain fatty acid metabolic process	0.013 %	-1.2558	0.86	0.41
<a href="#">GO:0010226</a>	response to lithium ion	0.017 %	-1.3622	0.92	0.41
<a href="#">GO:0016106</a>	sesquiterpenoid biosynthetic process	0.138 %	-1.1713	0.81	0.43
<a href="#">GO:1901601</a>	strigolactone biosynthetic process	0.026 %	-1.2404	0.82	0.85
<a href="#">GO:1901600</a>	strigolactone metabolic process	0.026 %	-1.2404	0.84	1.00
<a href="#">GO:0006714</a>	sesquiterpenoid metabolic process	0.181 %	-1.0706	0.84	0.76
<a href="#">GO:1901336</a>	lactone biosynthetic process	0.026 %	-1.2404	0.90	1.00
<a href="#">GO:0009553</a>	embryo sac development	0.565 %	-2.3805	0.77	0.43
<a href="#">GO:0042221</a>	response to chemical	12.434 %	-1.6715	0.89	0.43
<a href="#">GO:0009845</a>	seed germination	0.600 %	-1.5148	0.75	0.43
<a href="#">GO:0010187</a>	negative regulation of seed germination	0.073 %	-1.6410	0.69	0.81
<a href="#">GO:1900140</a>	regulation of seedling development	0.315 %	-1.1453	0.67	0.92
<a href="#">GO:0010029</a>	regulation of seed germination	0.298 %	-1.2253	0.67	0.91
<a href="#">GO:0090351</a>	seedling development	0.660 %	-1.4072	0.75	0.53
<a href="#">GO:0001944</a>	vasculature development	0.108 %	-1.3830	0.79	0.44
<a href="#">GO:0072358</a>	cardiovascular system development	0.108 %	-1.3830	0.79	1.00
<a href="#">GO:0072359</a>	circulatory system development	0.108 %	-1.3830	0.79	0.44
<a href="#">GO:0007389</a>	pattern specification process	0.742 %	-1.2102	0.77	0.44
<a href="#">GO:0010229</a>	inflorescence development	0.104 %	-1.1254	0.77	0.45
<a href="#">GO:0015849</a>	organic acid transport	0.682 %	-3.5872	0.82	0.46
<a href="#">GO:0044765</a>	single-organism transport	5.287 %	-1.2593	0.79	0.69
<a href="#">GO:0008643</a>	carbohydrate transport	0.630 %	-1.3105	0.82	0.55
<a href="#">GO:2000123</a>	positive regulation of stomatal complex development	0.013 %	-1.7248	0.70	0.46
<a href="#">GO:0048509</a>	regulation of meristem development	0.445 %	-1.5763	0.72	0.51
<a href="#">GO:0048510</a>	regulation of timing of transition from vegetative to reproductive phase	0.164 %	-1.2402	0.74	0.78
<a href="#">GO:0048507</a>	meristem development	0.945 %	-1.1269	0.82	0.73
<a href="#">GO:0048506</a>	regulation of timing of meristematic phase transition	0.164 %	-1.2402	0.74	0.95
<a href="#">GO:0051241</a>	negative regulation of multicellular organismal process	0.445 %	-1.1364	0.70	0.54
<a href="#">GO:0051240</a>	positive regulation of multicellular organismal process	0.401 %	-1.0584	0.68	0.70
<a href="#">GO:0045995</a>	regulation of embryonic development	0.056 %	-1.0609	0.72	0.60
<a href="#">GO:0010492</a>	maintenance of shoot apical meristem identity	0.056 %	-1.0153	0.80	0.72
<a href="#">GO:0046622</a>	positive regulation of organ growth	0.017 %	-1.3622	0.70	0.81
<a href="#">GO:0010374</a>	stomatal complex development	0.220 %	-1.1765	0.77	0.64
<a href="#">GO:0040034</a>	regulation of development, heterochronic	0.224 %	-1.0589	0.74	0.62
<a href="#">GO:0048639</a>	positive regulation of developmental growth	0.026 %	-1.3622	0.70	0.63
<a href="#">GO:0051093</a>	negative regulation of developmental process	0.492 %	-1.0080	0.71	0.66
<a href="#">GO:0040019</a>	positive regulation of embryonic development	0.009 %	-1.1467	0.72	0.60
<a href="#">GO:0050794</a>	regulation of cellular process	22.244 %	-3.5666	0.77	0.46
<a href="#">GO:0019222</a>	regulation of metabolic process	14.847 %	-2.7738	0.79	0.63

<a href="#">GO:0050789</a>	<i>regulation of biological process</i>	24.333 %	-2.7297	0.82	0.61
<a href="#">GO:0015770</a>	<b>sucrose transport</b>	<b>0.086 %</b>	<b>-1.6795</b>	<b>0.84</b>	<b>0.46</b>
<a href="#">GO:0015772</a>	<i>oligosaccharide transport</i>	0.091 %	-1.6795	0.84	0.72
<a href="#">GO:0015766</a>	<i>disaccharide transport</i>	0.091 %	-1.6795	0.84	1.00
<a href="#">GO:0034219</a>	<i>carbohydrate transmembrane transport</i>	0.332 %	-1.4781	0.82	0.79
<a href="#">GO:0019605</a>	<b>butyrate metabolic process</b>	<b>0.009 %</b>	<b>-1.2883</b>	<b>0.87</b>	<b>0.49</b>
<a href="#">GO:0006950</a>	<b>response to stress</b>	<b>14.156 %</b>	<b>-1.5890</b>	<b>0.89</b>	<b>0.49</b>
<a href="#">GO:0006833</a>	<b>water transport</b>	<b>0.194 %</b>	<b>-1.5071</b>	<b>0.84</b>	<b>0.50</b>
<a href="#">GO:0042044</a>	<b>fluid transport</b>	<b>0.194 %</b>	<b>-1.5071</b>	<b>0.84</b>	<b>0.50</b>

## Biological Process (218) Tag Clouds

Scatterplot & Table    Interactive Graph    TreeMap

## GROUP 41

Tip: your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)

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[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0006629</a>	lipid metabolic process	4.683 %		-3.6879	0.81	0.00
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %		-2.2702	0.99	0.00
<a href="#">GO:0032502</a>	developmental process	12.689 %		-2.7214	0.99	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %		-3.3980	0.99	0.00
<a href="#">GO:0048522</a>	positive regulation of cellular process	3.582 %		-4.0461	0.67	0.00
<a href="#">GO:0071229</a>	cellular response to acid chemical	2.158 %		-1.8463	0.76	0.75
<a href="#">GO:1901701</a>	cellular response to oxygen-containing compound	2.788 %		-1.8880	0.75	0.69
<a href="#">GO:0045862</a>	positive regulation of proteolysis	0.272 %		-1.6421	0.66	0.84
<a href="#">GO:0023056</a>	positive regulation of signaling	0.332 %		-1.6550	0.68	0.66
<a href="#">GO:0097306</a>	cellular response to alcohol	1.170 %		-2.3931	0.75	0.80
<a href="#">GO:1902680</a>	positive regulation of RNA biosynthetic process	1.869 %		-2.4870	0.61	0.97
<a href="#">GO:0031331</a>	positive regulation of cellular catabolic process	0.289 %		-1.6421	0.66	0.98
<a href="#">GO:0031328</a>	positive regulation of cellular biosynthetic process	2.102 %		-3.5418	0.62	0.83
<a href="#">GO:0031325</a>	positive regulation of cellular metabolic process	2.741 %		-3.8386	0.64	0.92
<a href="#">GO:0048584</a>	positive regulation of response to stimulus	0.902 %		-1.3173	0.62	0.74
<a href="#">GO:0051254</a>	positive regulation of RNA metabolic process	1.912 %		-2.4870	0.63	0.96

<a href="#">GO:0045935</a>	positive regulation of nucleobase-containing compound metabolic process	2.007 %	-3.0974	0.63	0.90
<a href="#">GO:0010647</a>	positive regulation of cell communication	0.350 %	-1.6194	0.70	0.66
<a href="#">GO:1901800</a>	positive regulation of proteasomal protein catabolic process	0.259 %	-1.6421	0.65	0.98
<a href="#">GO:0032870</a>	cellular response to hormone stimulus	3.871 %	-1.2696	0.73	0.82
<a href="#">GO:0010628</a>	positive regulation of gene expression	2.050 %	-2.3195	0.65	0.89
<a href="#">GO:0045893</a>	positive regulation of transcription, DNA-templated	1.864 %	-2.4870	0.61	0.96
<a href="#">GO:0071215</a>	cellular response to abscisic acid stimulus	1.170 %	-2.3931	0.74	0.98
<a href="#">GO:0010604</a>	positive regulation of macromolecule metabolic process	2.672 %	-3.2104	0.65	0.95
<a href="#">GO:0071365</a>	cellular response to auxin stimulus	0.932 %	-1.5893	0.77	0.85
<a href="#">GO:0071396</a>	cellular response to lipid	1.770 %	-1.4499	0.75	0.77
<a href="#">GO:0010557</a>	positive regulation of macromolecule biosynthetic process	2.007 %	-2.9536	0.63	0.97
<a href="#">GO:0032436</a>	positive regulation of proteasomal ubiquitin-dependent protein catabolic process	0.207 %	-1.6421	0.65	0.63
<a href="#">GO:0032434</a>	regulation of proteasomal ubiquitin-dependent protein catabolic process	0.211 %	-1.6421	0.72	0.96
<a href="#">GO:0071310</a>	cellular response to organic substance	4.601 %	-1.0981	0.74	0.88
<a href="#">GO:0061136</a>	regulation of proteasomal protein catabolic process	0.268 %	-1.6421	0.72	0.99
<a href="#">GO:1903364</a>	positive regulation of cellular protein catabolic process	0.263 %	-1.6421	0.65	0.99
<a href="#">GO:1903362</a>	regulation of cellular protein catabolic process	0.272 %	-1.6421	0.72	0.95
<a href="#">GO:0009741</a>	response to brassinosteroid	0.410 %	-1.8128	0.82	0.66
<a href="#">GO:0009738</a>	abscisic acid-activated signaling pathway	1.062 %	-2.1958	0.60	0.65
<a href="#">GO:0009734</a>	auxin-activated signaling pathway	0.868 %	-1.8392	0.62	0.69
<a href="#">GO:1901485</a>	positive regulation of transcription factor catabolic process	0.004 %	-1.6421	0.72	0.76
<a href="#">GO:1901483</a>	regulation of transcription factor catabolic process	0.004 %	-1.6421	0.78	1.00
<a href="#">GO:0030162</a>	regulation of proteolysis	0.591 %	-1.1307	0.75	0.67
<a href="#">GO:0009789</a>	positive regulation of abscisic acid-activated signaling pathway	0.147 %	-2.2114	0.55	0.93
<a href="#">GO:0009787</a>	regulation of abscisic acid-activated signaling pathway	0.350 %	-2.0813	0.59	0.93
<a href="#">GO:1903508</a>	positive regulation of nucleic acid-templated transcription	1.869 %	-2.4870	0.61	0.98
<a href="#">GO:0009893</a>	positive regulation of metabolic process	2.892 %	-3.5466	0.67	0.87
<a href="#">GO:0009891</a>	positive regulation of biosynthetic process	2.145 %	-3.4989	0.64	0.93
<a href="#">GO:1903052</a>	positive regulation of proteolysis involved in cellular protein catabolic process	0.263 %	-1.6421	0.65	1.00
<a href="#">GO:1903050</a>	regulation of proteolysis involved in cellular protein catabolic process	0.272 %	-1.6421	0.72	1.00
<a href="#">GO:0009967</a>	positive regulation of signal transduction	0.332 %	-1.6550	0.57	0.93
<a href="#">GO:0009966</a>	regulation of signal transduction	1.109 %	-1.1160	0.61	0.87
<a href="#">GO:0051173</a>	positive regulation of nitrogen compound metabolic process	2.119 %	-3.5787	0.66	0.92
<a href="#">GO:1901419</a>	regulation of response to alcohol	0.350 %	-2.0813	0.68	0.71
<a href="#">GO:1901421</a>	positive regulation of response to alcohol	0.147 %	-2.2114	0.62	0.61
<a href="#">GO:0050896</a>	<b>response to stimulus</b>	<b>25.943 %</b>	<b>-2.7405</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0051704</a>	<b>multi-organism process</b>	<b>3.362 %</b>	<b>-1.5330</b>	<b>0.99</b>	<b>0.00</b>
<a href="#">GO:0046209</a>	<b>nitric oxide metabolic process</b>	<b>0.030 %</b>	<b>-1.0635</b>	<b>0.91</b>	<b>0.05</b>
<a href="#">GO:0006809</a>	nitric oxide biosynthetic process	0.022 %	-1.1748	0.88	0.75
<a href="#">GO:0042126</a>	nitrate metabolic process	0.181 %	-1.0061	0.78	0.98
<a href="#">GO:0042128</a>	nitrate assimilation	0.181 %	-1.0061	0.78	0.86
<a href="#">GO:0010166</a>	<b>wax metabolic process</b>	<b>0.082 %</b>	<b>-1.4134</b>	<b>0.96</b>	<b>0.05</b>
<a href="#">GO:0036369</a>	transcription factor catabolic process	0.004 %	-1.6421	0.90	0.06
<a href="#">GO:0006723</a>	cuticle hydrocarbon biosynthetic process	0.013 %	-2.1159	0.84	0.08
<a href="#">GO:1901615</a>	organic hydroxy compound metabolic process	1.265 %	-1.6061	0.94	0.10
<a href="#">GO:1901642</a>	<b>nucleoside transmembrane transport</b>	<b>0.069 %</b>	<b>-2.4161</b>	<b>0.90</b>	<b>0.10</b>
<a href="#">GO:0015858</a>	nucleoside transport	0.134 %	-1.7205	0.90	0.83
<a href="#">GO:0009626</a>	<b>plant-type hypersensitive response</b>	<b>0.341 %</b>	<b>-3.4615</b>	<b>0.72</b>	<b>0.12</b>
<a href="#">GO:0043067</a>	regulation of programmed cell death	0.216 %	-1.1076	0.75	0.86
<a href="#">GO:0012501</a>	programmed cell death	0.600 %	-2.4846	0.83	0.90
<a href="#">GO:0010363</a>	regulation of plant-type hypersensitive response	0.060 %	-2.2211	0.66	0.86
<a href="#">GO:0034050</a>	host programmed cell death induced by symbiont	0.345 %	-3.3593	0.84	0.90
<a href="#">GO:0034052</a>	positive regulation of plant-type hypersensitive response	0.026 %	-1.3641	0.61	0.81
<a href="#">GO:0010025</a>	<b>wax biosynthetic process</b>	<b>0.078 %</b>	<b>-1.4745</b>	<b>0.93</b>	<b>0.13</b>
<a href="#">GO:0010039</a>	<b>response to iron ion</b>	<b>0.237 %</b>	<b>-1.9927</b>	<b>0.85</b>	<b>0.17</b>
<a href="#">GO:0042542</a>	response to hydrogen peroxide	0.268 %	-1.9348	0.82	0.53
<a href="#">GO:0000302</a>	response to reactive oxygen species	0.678 %	-1.4099	0.81	0.71
<a href="#">GO:0031122</a>	<b>cytoplasmic microtubule organization</b>	<b>0.216 %</b>	<b>-1.3754</b>	<b>0.86</b>	<b>0.19</b>
<a href="#">GO:0043622</a>	cortical microtubule organization	0.112 %	-1.3941	0.87	0.81
<a href="#">GO:0030865</a>	cortical cytoskeleton organization	0.129 %	-1.3527	0.95	0.71
<a href="#">GO:2000278</a>	<b>regulation of DNA biosynthetic process</b>	<b>0.022 %</b>	<b>-1.6421</b>	<b>0.78</b>	<b>0.20</b>
<a href="#">GO:0071897</a>	DNA biosynthetic process	0.315 %	-1.3830	0.86	0.50
<a href="#">GO:0051973</a>	positive regulation of telomerase activity	0.009 %	-1.6795	0.72	0.92
<a href="#">GO:2000573</a>	positive regulation of DNA biosynthetic process	0.013 %	-1.6795	0.71	0.66
<a href="#">GO:0051972</a>	regulation of telomerase activity	0.013 %	-1.6795	0.78	0.94
<a href="#">GO:0051054</a>	positive regulation of DNA metabolic process	0.086 %	-1.3287	0.69	0.72
<a href="#">GO:0006069</a>	<b>ethanol oxidation</b>	<b>0.004 %</b>	<b>-1.3830</b>	<b>0.87</b>	<b>0.21</b>
<a href="#">GO:0006067</a>	ethanol metabolic process	0.004 %	-1.3830	0.87	0.75
<a href="#">GO:0006066</a>	alcohol metabolic process	0.505 %	-1.0345	0.82	0.56
<a href="#">GO:0048513</a>	<b>animal organ development</b>	<b>0.004 %</b>	<b>-1.2116</b>	<b>0.89</b>	<b>0.21</b>

<a href="#">GO:0008219</a>	cell death	0.734 %	-1.8332	0.86	0.21
<a href="#">GO:0009821</a>	alkaloid biosynthetic process	0.795 %	-1.1748	0.86	0.22
<a href="#">GO:1901804</a>	beta-glucoside metabolic process	0.009 %	-1.5188	0.88	0.22
<a href="#">GO:1901038</a>	<i>cyanidin 3-O-glucoside metabolic process</i>	0.004 %	-1.5188	0.87	0.89
<a href="#">GO:0048730</a>	epidermis morphogenesis	0.033 %	-1.9407	0.85	0.22
<a href="#">GO:0002009</a>	<i>morphogenesis of an epithelium</i>	0.013 %	-1.1522	0.86	1.06
<a href="#">GO:0007017</a>	microtubule-based process	0.859 %	-1.0015	0.86	0.23
<a href="#">GO:0043446</a>	cellular alkane metabolic process	0.017 %	-1.4685	0.86	0.24
<a href="#">GO:0043901</a>	negative regulation of multi-organism process	0.393 %	-1.1867	0.83	0.24
<a href="#">GO:0043900</a>	<i>regulation of multi-organism process</i>	0.190 %	-1.1838	0.85	0.56
<a href="#">GO:0042592</a>	homeostatic process	2.637 %	-3.2171	0.80	0.26
<a href="#">GO:0055088</a>	<i>lipid homeostasis</i>	0.199 %	-1.0910	0.81	0.65
<a href="#">GO:0055080</a>	<i>cation homeostasis</i>	1.083 %	-1.7561	0.78	0.92
<a href="#">GO:0055078</a>	<i>sodium ion homeostasis</i>	0.030 %	-1.6421	0.83	0.67
<a href="#">GO:0055076</a>	<i>transition metal ion homeostasis</i>	0.678 %	-1.8161	0.79	0.86
<a href="#">GO:0055072</a>	<i>iron ion homeostasis</i>	0.237 %	-2.7241	0.80	0.55
<a href="#">GO:0055065</a>	<i>metal ion homeostasis</i>	0.842 %	-1.8511	0.79	0.92
<a href="#">GO:0019725</a>	<i>cellular homeostasis</i>	1.549 %	-2.1745	0.70	0.69
<a href="#">GO:0006879</a>	<i>cellular iron ion homeostasis</i>	0.108 %	-2.3927	0.74	0.77
<a href="#">GO:0050801</a>	<i>ion homeostasis</i>	1.299 %	-1.4177	0.78	0.83
<a href="#">GO:0046916</a>	<i>cellular transition metal ion homeostasis</i>	0.505 %	-1.3941	0.71	0.92
<a href="#">GO:0045454</a>	<i>cell redox homeostasis</i>	0.634 %	-2.1557	0.70	0.77
<a href="#">GO:0048878</a>	<i>chemical homeostasis</i>	1.765 %	-1.8799	0.78	0.86
<a href="#">GO:0010268</a>	<i>brassinosteroid homeostasis</i>	0.138 %	-1.1989	0.82	0.63
<a href="#">GO:0098771</a>	<i>inorganic ion homeostasis</i>	1.139 %	-1.5845	0.78	0.95
<a href="#">GO:0010345</a>	suberin biosynthetic process	0.060 %	-1.7561	0.79	0.26
<a href="#">GO:0052318</a>	<i>regulation of phytoalexin metabolic process</i>	0.009 %	-1.6078	0.75	0.81
<a href="#">GO:0052319</a>	<i>regulation of phytoalexin biosynthetic process</i>	0.009 %	-1.6078	0.72	1.00
<a href="#">GO:0052320</a>	<i>positive regulation of phytoalexin metabolic process</i>	0.009 %	-1.6078	0.68	1.00
<a href="#">GO:0052322</a>	<i>positive regulation of phytoalexin biosynthetic process</i>	0.009 %	-1.6078	0.66	1.00
<a href="#">GO:1901182</a>	<i>regulation of camalexin biosynthetic process</i>	0.009 %	-1.6078	0.71	1.00
<a href="#">GO:1901183</a>	<i>positive regulation of camalexin biosynthetic process</i>	0.009 %	-1.6078	0.65	0.52
<a href="#">GO:1900378</a>	<i>positive regulation of secondary metabolite biosynthetic process</i>	0.017 %	-1.3287	0.67	0.79
<a href="#">GO:0051176</a>	<i>positive regulation of sulfur metabolic process</i>	0.035 %	-1.4236	0.73	0.81
<a href="#">GO:0006826</a>	iron ion transport	0.121 %	-2.3101	0.96	0.27
<a href="#">GO:0000041</a>	<i>transition metal ion transport</i>	0.358 %	-1.3350	0.97	0.73
<a href="#">GO:0030001</a>	<i>metal ion transport</i>	1.588 %	-1.3818	0.96	0.66
<a href="#">GO:0023051</a>	regulation of signaling	1.126 %	-1.1013	0.81	0.27
<a href="#">GO:0065008</a>	regulation of biological quality	5.991 %	-1.5573	0.83	0.29
<a href="#">GO:0043447</a>	alkane biosynthetic process	0.017 %	-1.4685	0.83	0.30
<a href="#">GO:0010646</a>	regulation of cell communication	1.139 %	-1.0940	0.79	0.30
<a href="#">GO:0048583</a>	regulation of response to stimulus	2.521 %	-1.2223	0.74	0.31
<a href="#">GO:0048229</a>	gametophyte development	1.653 %	-1.7995	0.83	0.31
<a href="#">GO:0044707</a>	<i>single-multicellular organism process</i>	10.699 %	-1.8946	0.84	0.86
<a href="#">GO:0044767</a>	<i>single-organism developmental process</i>	12.123 %	-2.9701	0.81	0.68
<a href="#">GO:0007275</a>	<i>multicellular organism development</i>	10.423 %	-2.0946	0.80	0.82
<a href="#">GO:0009653</a>	<i>anatomical structure morphogenesis</i>	3.500 %	-1.2226	0.89	0.51
<a href="#">GO:0048856</a>	<i>anatomical structure development</i>	11.722 %	-2.9275	0.88	0.85
<a href="#">GO:0048869</a>	<i>cellular developmental process</i>	4.148 %	-1.2169	0.76	0.55
<a href="#">GO:0009820</a>	alkaloid metabolic process	0.009 %	-1.0910	0.94	0.32
<a href="#">GO:0048518</a>	positive regulation of biological process	4.398 %	-2.4343	0.81	0.33
<a href="#">GO:0010231</a>	maintenance of seed dormancy	0.035 %	-1.7205	0.86	0.34
<a href="#">GO:0097437</a>	<i>maintenance of dormancy</i>	0.035 %	-1.7205	0.88	0.82
<a href="#">GO:0019438</a>	aromatic compound biosynthetic process	14.247 %	-1.2404	0.84	0.34
<a href="#">GO:1901362</a>	<i>organic cyclic compound biosynthetic process</i>	14.769 %	-1.2002	0.86	0.55
<a href="#">GO:0009718</a>	anthocyanin-containing compound biosynthetic process	0.121 %	-1.4232	0.81	0.34
<a href="#">GO:0046148</a>	<i>pigment biosynthetic process</i>	0.639 %	-1.0083	0.84	0.85
<a href="#">GO:0046283</a>	<i>anthocyanin-containing compound metabolic process</i>	0.190 %	-1.0235	0.85	0.84
<a href="#">GO:0009409</a>	response to cold	1.580 %	-2.6751	0.85	0.34
<a href="#">GO:0009651</a>	<i>response to salt stress</i>	2.270 %	-1.2179	0.85	0.62
<a href="#">GO:0009266</a>	<i>response to temperature stimulus</i>	2.287 %	-1.7685	0.86	0.59
<a href="#">GO:0006970</a>	<i>response to osmotic stress</i>	2.512 %	-1.6611	0.84	0.62
<a href="#">GO:0006950</a>	response to stress	14.156 %	-2.7376	0.84	0.35
<a href="#">GO:0080170</a>	hydrogen peroxide transmembrane transport	0.022 %	-1.0138	0.97	0.36
<a href="#">GO:0048645</a>	animal organ formation	0.004 %	-1.8826	0.87	0.36
<a href="#">GO:0010160</a>	<i>formation of animal organ boundary</i>	0.055 %	-1.0463	0.83	1.15
<a href="#">GO:0009887</a>	<i>animal organ morphogenesis</i>	0.004 %	-1.5710	0.87	1.00
<a href="#">GO:0042991</a>	transcription factor import into nucleus	0.026 %	-1.4929	0.91	0.36
<a href="#">GO:0009733</a>	response to auxin	1.709 %	-1.9255	0.81	0.36
<a href="#">GO:1901700</a>	<i>response to oxygen-containing compound</i>	6.504 %	-1.8107	0.80	0.54
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-1.4584	0.79	0.70
<a href="#">GO:0009725</a>	<i>response to hormone</i>	6.871 %	-1.1996	0.77	0.82

<a href="#">GO:0071495</a>	<i>cellular response to endogenous stimulus</i>	3.988 %	-1.2280	0.82	0.66
<a href="#">GO:0042335</a>	<b>cuticle development</b>	<b>0.082 %</b>	<b>-1.7108</b>	<b>0.87</b>	<b>0.36</b>
<a href="#">GO:0006631</a>	<b>fatty acid metabolic process</b>	<b>1.101 %</b>	<b>-3.5780</b>	<b>0.76</b>	<b>0.37</b>
<a href="#">GO:0032787</a>	<i>monocarboxylic acid metabolic process</i>	2.128 %	-2.0955	0.76	0.71
<a href="#">GO:0072330</a>	<i>monocarboxylic acid biosynthetic process</i>	1.101 %	-2.5041	0.73	0.84
<a href="#">GO:0016053</a>	<i>organic acid biosynthetic process</i>	2.296 %	-1.1249	0.72	0.92
<a href="#">GO:0046394</a>	<i>carboxylic acid biosynthetic process</i>	2.296 %	-1.3787	0.72	0.89
<a href="#">GO:0044255</a>	<i>cellular lipid metabolic process</i>	3.224 %	-2.1641	0.77	0.73
<a href="#">GO:0008610</a>	<i>lipid biosynthetic process</i>	2.464 %	-1.9866	0.76	0.82
<a href="#">GO:0010430</a>	<i>fatty acid omega-oxidation</i>	0.004 %	-1.6795	0.83	0.52
<a href="#">GO:0043436</a>	<i>oxoacid metabolic process</i>	5.002 %	-1.0479	0.74	0.83
<a href="#">GO:0008202</a>	<i>steroid metabolic process</i>	0.427 %	-1.1201	0.81	0.59
<a href="#">GO:0042304</a>	<i>regulation of fatty acid biosynthetic process</i>	0.052 %	-1.0548	0.68	0.90
<a href="#">GO:0006633</a>	<i>fatty acid biosynthetic process</i>	0.682 %	-3.6487	0.73	0.79
<a href="#">GO:0042761</a>	<i>very long-chain fatty acid biosynthetic process</i>	0.056 %	-1.0379	0.77	0.63
<a href="#">GO:0080140</a>	<i>regulation of jasmonic acid metabolic process</i>	0.017 %	-1.1867	0.72	0.57
<a href="#">GO:0080141</a>	<i>regulation of jasmonic acid biosynthetic process</i>	0.013 %	-1.1989	0.71	0.83
<a href="#">GO:0045490</a>	<b>pectin catabolic process</b>	<b>0.423 %</b>	<b>-1.4183</b>	<b>0.89</b>	<b>0.37</b>
<a href="#">GO:0010410</a>	<i>hemicellulose metabolic process</i>	0.423 %	-1.0714	0.91	0.71
<a href="#">GO:0010305</a>	<b>leaf vascular tissue pattern formation</b>	<b>0.117 %</b>	<b>-1.3571</b>	<b>0.85</b>	<b>0.37</b>
<a href="#">GO:0003002</a>	<i>regionalization</i>	0.617 %	-1.0531	0.83	0.88
<a href="#">GO:0010051</a>	<i>xylem and phloem pattern formation</i>	0.259 %	-1.2143	0.84	0.80
<a href="#">GO:0006811</a>	<b>ion transport</b>	<b>4.174 %</b>	<b>-1.1081</b>	<b>0.96</b>	<b>0.38</b>
<a href="#">GO:0009607</a>	<b>response to biotic stimulus</b>	<b>5.158 %</b>	<b>-1.5507</b>	<b>0.86</b>	<b>0.41</b>
<a href="#">GO:0010068</a>	<b>protoderm histogenesis</b>	<b>0.004 %</b>	<b>-1.5188</b>	<b>0.87</b>	<b>0.41</b>
<a href="#">GO:0010076</a>	<i>maintenance of floral meristem identity</i>	0.026 %	-1.3830	0.85	0.50
<a href="#">GO:0010077</a>	<i>maintenance of inflorescence meristem identity</i>	0.039 %	-1.2516	0.85	0.80
<a href="#">GO:0009645</a>	<b>response to low light intensity stimulus</b>	<b>0.073 %</b>	<b>-1.0463</b>	<b>0.90</b>	<b>0.41</b>
<a href="#">GO:0006979</a>	<b>response to oxidative stress</b>	<b>1.908 %</b>	<b>-1.6253</b>	<b>0.86</b>	<b>0.41</b>
<a href="#">GO:0010182</a>	<b>sugar mediated signaling pathway</b>	<b>0.147 %</b>	<b>-1.4382</b>	<b>0.67</b>	<b>0.42</b>
<a href="#">GO:0071322</a>	<i>cellular response to carbohydrate stimulus</i>	0.220 %	-1.1694	0.79	0.83
<a href="#">GO:0009756</a>	<i>carbohydrate mediated signaling</i>	0.147 %	-1.4382	0.67	0.94
<a href="#">GO:0009605</a>	<b>response to external stimulus</b>	<b>6.366 %</b>	<b>-1.4519</b>	<b>0.85</b>	<b>0.42</b>
<a href="#">GO:1901264</a>	<b>carbohydrate derivative transport</b>	<b>0.306 %</b>	<b>-1.2659</b>	<b>0.90</b>	<b>0.43</b>
<a href="#">GO:1900424</a>	<b>regulation of defense response to bacterium</b>	<b>0.129 %</b>	<b>-2.3586</b>	<b>0.73</b>	<b>0.43</b>
<a href="#">GO:0043207</a>	<i>response to external biotic stimulus</i>	4.981 %	-1.5774	0.83	0.94
<a href="#">GO:0051707</a>	<i>response to other organism</i>	4.968 %	-1.5774	0.83	0.64
<a href="#">GO:0002832</a>	<i>negative regulation of response to biotic stimulus</i>	0.065 %	-1.1867	0.75	0.83
<a href="#">GO:0002831</a>	<i>regulation of response to biotic stimulus</i>	0.293 %	-2.0661	0.73	0.57
<a href="#">GO:1900425</a>	<i>negative regulation of defense response to bacterium</i>	0.043 %	-1.5760	0.74	0.81
<a href="#">GO:0032101</a>	<i>regulation of response to external stimulus</i>	0.315 %	-1.9676	0.73	0.62
<a href="#">GO:0032102</a>	<i>negative regulation of response to external stimulus</i>	0.065 %	-1.1867	0.75	0.82
<a href="#">GO:0080135</a>	<i>regulation of cellular response to stress</i>	0.250 %	-1.5412	0.70	0.67
<a href="#">GO:1901698</a>	<b>response to nitrogen compound</b>	<b>1.174 %</b>	<b>-1.3934</b>	<b>0.83</b>	<b>0.43</b>
<a href="#">GO:0048729</a>	<b>tissue morphogenesis</b>	<b>0.013 %</b>	<b>-1.1522</b>	<b>0.86</b>	<b>0.43</b>
<a href="#">GO:0007267</a>	<b>cell-cell signaling</b>	<b>0.371 %</b>	<b>-1.0725</b>	<b>0.83</b>	<b>0.44</b>
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-1.8220</b>	<b>0.85</b>	<b>0.44</b>
<a href="#">GO:0009628</a>	<b>response to abiotic stimulus</b>	<b>7.946 %</b>	<b>-2.0543</b>	<b>0.85</b>	<b>0.45</b>
<a href="#">GO:0009555</a>	<b>pollen development</b>	<b>1.230 %</b>	<b>-1.9741</b>	<b>0.84</b>	<b>0.48</b>
<a href="#">GO:0046473</a>	<b>phosphatidic acid metabolic process</b>	<b>0.009 %</b>	<b>-1.3121</b>	<b>0.85</b>	<b>0.48</b>
<a href="#">GO:0010167</a>	<b>response to nitrate</b>	<b>0.078 %</b>	<b>-1.4037</b>	<b>0.84</b>	<b>0.48</b>
<a href="#">GO:0010200</a>	<i>response to chitin</i>	0.544 %	-1.3547	0.81	0.71
<a href="#">GO:0010243</a>	<i>response to organonitrogen compound</i>	0.768 %	-1.0062	0.81	0.87
<a href="#">GO:0006952</a>	<b>defense response</b>	<b>6.090 %</b>	<b>-1.0742</b>	<b>0.84</b>	<b>0.50</b>
<a href="#">GO:0010103</a>	<b>stomatal complex morphogenesis</b>	<b>0.125 %</b>	<b>-1.9397</b>	<b>0.83</b>	<b>0.50</b>
<a href="#">GO:0008544</a>	<i>epidermis development</i>	0.069 %	-1.5649	0.90	0.53
<a href="#">GO:0060429</a>	<i>epithelium development</i>	0.082 %	-1.4535	0.89	0.53
<a href="#">GO:0010052</a>	<i>guard cell differentiation</i>	0.082 %	-1.2377	0.79	0.89
<a href="#">GO:2000122</a>	<i>negative regulation of stomatal complex development</i>	0.022 %	-1.8741	0.75	0.81
<a href="#">GO:0010374</a>	<i>stomatal complex development</i>	0.220 %	-1.2490	0.83	0.71

Biological Process (229) [Tag Clouds](#)[Scatterplot & Table](#) [Interactive Graph](#) [TreeMap](#)

## GROUP 42

**Tip:** your resulting list of GO terms seems to be quite long. If you want to reduce it further, press the Back button in your browser and choose a different setting for the "allowed similarity" parameter.

[Hide/show dispensable GO terms](#)[Export results to text table \(CSV\)](#)[Make R script for plotting](#)

term ID	description	frequency	pin?	log <sub>10</sub> p-value	uniqueness	dispensability
<a href="#">GO:0000380</a>	alternative mRNA splicing, via spliceosome	0.091 %		-5.8197	0.89	0.00
<a href="#">GO:0000377</a>	RNA splicing, via transesterification reactions with bulged adenosine as nucleophile	0.785 %		-2.9369	0.87	0.98
<a href="#">GO:0000375</a>	RNA splicing, via transesterification reactions	0.807 %		-2.9369	0.87	0.88
<a href="#">GO:0000398</a>	mRNA splicing, via spliceosome	0.729 %		-3.4171	0.87	0.81
<a href="#">GO:0008380</a>	RNA splicing	1.312 %		-2.5339	0.87	0.56
<a href="#">GO:0006397</a>	mRNA processing	1.692 %		-2.3485	0.87	0.84
<a href="#">GO:0009639</a>	response to red or far red light	0.872 %		-4.6765	0.79	0.00
<a href="#">GO:0009582</a>	detection of abiotic stimulus	0.311 %		-1.6061	0.81	0.94
<a href="#">GO:0009581</a>	detection of external stimulus	0.311 %		-1.6061	0.83	0.93
<a href="#">GO:0009584</a>	detection of visible light	0.022 %		-1.3527	0.81	0.82
<a href="#">GO:0009583</a>	detection of light stimulus	0.268 %		-2.0115	0.78	0.97
<a href="#">GO:0009585</a>	red, far-red light phototransduction	0.263 %		-2.2874	0.63	0.80
<a href="#">GO:0010114</a>	response to red light	0.259 %		-2.4187	0.80	0.80
<a href="#">GO:0010161</a>	red light signaling pathway	0.035 %		-2.2719	0.70	0.81
<a href="#">GO:0071214</a>	cellular response to abiotic stimulus	0.889 %		-1.3618	0.76	0.56
<a href="#">GO:0009641</a>	shade avoidance	0.069 %		-4.3653	0.81	0.58



<a href="#">GO:0009640</a>	photomorphogenesis	0.311 %	-2.8883	0.67	0.72
<a href="#">GO:0009704</a>	de-etiolation	0.047 %	-2.0227	0.71	0.63
<a href="#">GO:0010017</a>	red or far-red light signaling pathway	0.341 %	-1.3098	0.66	0.97
<a href="#">GO:0007602</a>	phototransduction	0.263 %	-2.2874	0.66	0.99
<a href="#">GO:0009314</a>	response to radiation	2.892 %	-1.7813	0.80	0.56
<a href="#">GO:0009416</a>	response to light stimulus	2.771 %	-1.8170	0.77	0.83
<a href="#">GO:0071489</a>	cellular response to red or far red light	0.350 %	-1.2927	0.73	0.89
<a href="#">GO:0071491</a>	cellular response to red light	0.043 %	-2.2126	0.77	0.82
<a href="#">GO:0023052</a>	signaling	8.908 %	-2.3423	0.99	0.00
<a href="#">GO:0032501</a>	multicellular organismal process	11.360 %	-1.0851	0.99	0.00
<a href="#">GO:0032502</a>	developmental process	12.689 %	-1.0433	0.99	0.00
<a href="#">GO:0044699</a>	single-organism process	41.709 %	-1.6880	0.99	0.00
<a href="#">GO:0050896</a>	response to stimulus	25.943 %	-2.6783	0.99	0.00
<a href="#">GO:0065007</a>	biological regulation	28.554 %	-1.1077	0.99	0.00
<a href="#">GO:0071166</a>	ribonucleoprotein complex localization	0.224 %	-3.2135	0.91	0.00
<a href="#">GO:0051169</a>	nuclear transport	0.470 %	-2.7544	0.90	0.59
<a href="#">GO:0032508</a>	DNA duplex unwinding	0.255 %	-3.7641	0.94	0.03
<a href="#">GO:0032392</a>	DNA geometric change	0.255 %	-3.7171	0.94	0.87
<a href="#">GO:0071103</a>	DNA conformation change	0.539 %	-1.8974	0.93	0.79
<a href="#">GO:0007154</a>	cell communication	9.698 %	-2.2979	0.94	0.05
<a href="#">GO:0009061</a>	anaerobic respiration	0.047 %	-2.8206	0.84	0.06
<a href="#">GO:0045333</a>	cellular respiration	0.514 %	-1.4904	0.81	0.79
<a href="#">GO:0015980</a>	energy derivation by oxidation of organic compounds	0.604 %	-1.3278	0.81	0.80
<a href="#">GO:0009850</a>	auxin metabolic process	0.332 %	-1.2598	0.87	0.06
<a href="#">GO:0080024</a>	indolebutyric acid metabolic process	0.022 %	-1.0106	0.77	0.70
<a href="#">GO:0032350</a>	regulation of hormone metabolic process	0.073 %	-1.0436	0.89	0.76
<a href="#">GO:0010600</a>	regulation of auxin biosynthetic process	0.052 %	-1.3913	0.85	0.74
<a href="#">GO:0046885</a>	regulation of hormone biosynthetic process	0.065 %	-1.1636	0.85	0.97
<a href="#">GO:0090354</a>	regulation of auxin metabolic process	0.056 %	-1.2001	0.87	0.96
<a href="#">GO:0048444</a>	floral organ morphogenesis	0.181 %	-2.1730	0.80	0.07
<a href="#">GO:0048532</a>	anatomical structure arrangement	0.289 %	-1.4476	0.82	0.60
<a href="#">GO:0010228</a>	vegetative to reproductive phase transition of meristem	0.738 %	-1.2785	0.82	0.52
<a href="#">GO:0010094</a>	specification of carpel identity	0.013 %	-1.6679	0.81	0.90
<a href="#">GO:0010093</a>	specification of floral organ identity	0.056 %	-2.1057	0.79	0.79
<a href="#">GO:0048462</a>	carpel formation	0.026 %	-1.4121	0.81	0.93
<a href="#">GO:0048446</a>	petal morphogenesis	0.026 %	-1.1754	0.82	0.80
<a href="#">GO:0048445</a>	carpel morphogenesis	0.035 %	-1.1409	0.82	0.82
<a href="#">GO:0048449</a>	floral organ formation	0.104 %	-1.5867	0.80	0.88
<a href="#">GO:0010016</a>	shoot system morphogenesis	0.708 %	-1.0784	0.80	0.65
<a href="#">GO:1905392</a>	plant organ morphogenesis	1.485 %	-1.0200	0.79	0.71
<a href="#">GO:0010358</a>	leaf shaping	0.035 %	-1.0704	0.83	0.58
<a href="#">GO:0048856</a>	anatomical structure development	11.722 %	-1.0632	0.87	0.72
<a href="#">GO:0009791</a>	post-embryonic development	5.848 %	-1.4226	0.80	0.52
<a href="#">GO:0090697</a>	post-embryonic plant organ morphogenesis	0.419 %	-1.6720	0.79	0.84
<a href="#">GO:0090698</a>	post-embryonic plant morphogenesis	0.716 %	-1.6957	0.86	0.58
<a href="#">GO:0090696</a>	post-embryonic plant organ development	0.686 %	-1.0946	0.81	0.56
<a href="#">GO:0017006</a>	protein-tetrapyrrole linkage	0.030 %	-1.3527	0.93	0.09
<a href="#">GO:0044763</a>	single-organism cellular process	23.034 %	-1.2967	0.85	0.13
<a href="#">GO:0080028</a>	nitrile biosynthetic process	0.022 %	-2.2288	0.90	0.13
<a href="#">GO:1901334</a>	lactone metabolic process	0.026 %	-1.2693	0.93	0.15
<a href="#">GO:0080037</a>	negative regulation of cytokinin-activated signaling pathway	0.022 %	-4.6370	0.73	0.15
<a href="#">GO:0080036</a>	regulation of cytokinin-activated signaling pathway	0.047 %	-3.6001	0.72	0.85
<a href="#">GO:0071368</a>	cellular response to cytokinin stimulus	0.337 %	-3.7008	0.76	0.64
<a href="#">GO:0009736</a>	cytokinin-activated signaling pathway	0.328 %	-4.0196	0.69	0.80
<a href="#">GO:0010469</a>	regulation of receptor activity	0.009 %	-1.0798	0.78	0.50
<a href="#">GO:0009966</a>	regulation of signal transduction	1.109 %	-1.6064	0.70	0.69
<a href="#">GO:0010119</a>	regulation of stomatal movement	0.281 %	-1.1088	0.82	0.17
<a href="#">GO:0031539</a>	positive regulation of anthocyanin metabolic process	0.022 %	-1.5073	0.84	0.17
<a href="#">GO:0010921</a>	regulation of phosphatase activity	0.035 %	-1.0704	0.87	0.20
<a href="#">GO:0043666</a>	regulation of phosphoprotein phosphatase activity	0.022 %	-1.0893	0.87	0.93
<a href="#">GO:0080163</a>	regulation of protein serine/threonine phosphatase activity	0.017 %	-1.1754	0.87	0.89
<a href="#">GO:0008299</a>	isoprenoid biosynthetic process	0.738 %	-2.7224	0.70	0.22
<a href="#">GO:0033383</a>	geranyl diphosphate metabolic process	0.056 %	-1.2402	0.74	0.76
<a href="#">GO:0043692</a>	monoterpene metabolic process	0.017 %	-1.5962	0.77	0.89
<a href="#">GO:0043693</a>	monoterpene biosynthetic process	0.017 %	-1.5962	0.76	0.89
<a href="#">GO:0044255</a>	cellular lipid metabolic process	3.224 %	-1.6332	0.72	0.82
<a href="#">GO:0016099</a>	monoterpenoid biosynthetic process	0.004 %	-1.3715	0.78	0.63
<a href="#">GO:0016098</a>	monoterpenoid metabolic process	0.004 %	-1.3715	0.79	0.63
<a href="#">GO:0016103</a>	diterpenoid catabolic process	0.017 %	-1.4814	0.75	0.88
<a href="#">GO:0016102</a>	diterpenoid biosynthetic process	0.147 %	-1.8514	0.72	0.97

<a href="#">GO:0016101</a>	<i>diterpenoid metabolic process</i>	0.173 %	-1.6674	0.74	0.84
<a href="#">GO:0016106</a>	<i>sesquiterpenoid biosynthetic process</i>	0.138 %	-2.7087	0.73	0.82
<a href="#">GO:0016114</a>	<i>terpenoid biosynthetic process</i>	0.591 %	-2.2646	0.70	0.94
<a href="#">GO:1901601</a>	<i>strigolactone biosynthetic process</i>	0.026 %	-1.2693	0.74	0.85
<a href="#">GO:1901600</a>	<i>strigolactone metabolic process</i>	0.026 %	-1.2693	0.75	1.00
<a href="#">GO:0009686</a>	<i>gibberellin biosynthetic process</i>	0.134 %	-1.8605	0.71	0.82
<a href="#">GO:0008610</a>	<i>lipid biosynthetic process</i>	2.464 %	-1.9264	0.74	0.69
<a href="#">GO:0009685</a>	<i>gibberellin metabolic process</i>	0.138 %	-1.7740	0.71	0.97
<a href="#">GO:0006714</a>	<i>sesquiterpenoid metabolic process</i>	0.181 %	-2.5014	0.73	0.84
<a href="#">GO:0006720</a>	<i>isoprenoid metabolic process</i>	0.850 %	-2.4169	0.74	0.69
<a href="#">GO:0006721</a>	<i>terpenoid metabolic process</i>	0.699 %	-1.9780	0.71	0.96
<a href="#">GO:0042214</a>	<i>terpene metabolic process</i>	0.065 %	-2.0227	0.75	0.77
<a href="#">GO:0045487</a>	<i>gibberellin catabolic process</i>	0.017 %	-1.4814	0.74	0.86
<a href="#">GO:0033559</a>	<i>unsaturated fatty acid metabolic process</i>	0.112 %	-1.0798	0.75	0.65
<a href="#">GO:0006636</a>	<i>unsaturated fatty acid biosynthetic process</i>	0.108 %	-1.0798	0.74	0.62
<a href="#">GO:0046246</a>	<i>terpene biosynthetic process</i>	0.043 %	-2.3874	0.75	0.75
<a href="#">GO:1901336</a>	<i>lactone biosynthetic process</i>	0.026 %	-1.2693	0.90	1.00
<a href="#">GO:0010501</a>	<b>RNA secondary structure unwinding</b>	<b>0.281 %</b>	<b>-3.8639</b>	<b>0.90</b>	<b>0.22</b>
<a href="#">GO:0050832</a>	<b>defense response to fungus</b>	<b>2.236 %</b>	<b>-2.3404</b>	<b>0.82</b>	<b>0.23</b>
<a href="#">GO:0009606</a>	<i>tropism</i>	0.341 %	-1.1998	0.85	0.54
<a href="#">GO:0009620</a>	<i>response to fungus</i>	2.521 %	-2.0697	0.82	0.76
<a href="#">GO:0006952</a>	<i>defense response</i>	6.090 %	-2.3983	0.83	0.51
<a href="#">GO:0006662</a>	<b>glycerol ether metabolic process</b>	<b>0.138 %</b>	<b>-2.0811</b>	<b>0.83</b>	<b>0.24</b>
<a href="#">GO:0010034</a>	<b>response to acetate</b>	<b>0.004 %</b>	<b>-1.3715</b>	<b>0.87</b>	<b>0.24</b>
<a href="#">GO:0018298</a>	<b>protein-chromophore linkage</b>	<b>0.203 %</b>	<b>-1.2130</b>	<b>0.92</b>	<b>0.25</b>
<a href="#">GO:0050898</a>	<b>nitrile metabolic process</b>	<b>0.022 %</b>	<b>-2.2288</b>	<b>0.93</b>	<b>0.27</b>
<a href="#">GO:0080160</a>	<b>selenate transport</b>	<b>0.077 %</b>	<b>-1.3007</b>	<b>0.92</b>	<b>0.28</b>
<a href="#">GO:0001708</a>	<b>cell fate specification</b>	<b>0.134 %</b>	<b>-1.7578</b>	<b>0.80</b>	<b>0.29</b>
<a href="#">GO:0010158</a>	<i>abaxial cell fate specification</i>	0.030 %	-1.2847	0.82	0.77
<a href="#">GO:0045165</a>	<i>cell fate commitment</i>	0.341 %	-1.4857	0.79	0.53
<a href="#">GO:0016071</a>	<b>mRNA metabolic process</b>	<b>2.145 %</b>	<b>-1.5735</b>	<b>0.89</b>	<b>0.30</b>
<a href="#">GO:1990267</a>	<b>response to transition metal nanoparticle</b>	<b>2.017 %</b>	<b>-2.8735</b>	<b>0.81</b>	<b>0.30</b>
<a href="#">GO:0018874</a>	<b>benzoate metabolic process</b>	<b>0.009 %</b>	<b>-1.1301</b>	<b>0.83</b>	<b>0.30</b>
<a href="#">GO:0009719</a>	<b>response to endogenous stimulus</b>	<b>7.359 %</b>	<b>-2.3972</b>	<b>0.83</b>	<b>0.31</b>
<a href="#">GO:0006403</a>	<b>RNA localization</b>	<b>0.367 %</b>	<b>-3.0563</b>	<b>0.92</b>	<b>0.31</b>
<a href="#">GO:0071311</a>	<b>cellular response to acetate</b>	<b>0.004 %</b>	<b>-1.3715</b>	<b>0.83</b>	<b>0.32</b>
<a href="#">GO:0050657</a>	<b>nucleic acid transport</b>	<b>0.332 %</b>	<b>-3.0563</b>	<b>0.90</b>	<b>0.32</b>
<a href="#">GO:0051236</a>	<i>establishment of RNA localization</i>	0.332 %	-3.0563	0.90	0.97
<a href="#">GO:0008643</a>	<i>carbohydrate transport</i>	0.630 %	-1.3637	0.83	0.51
<a href="#">GO:0015931</a>	<i>nucleobase-containing compound transport</i>	0.561 %	-2.6811	0.90	0.76
<a href="#">GO:0050658</a>	<i>RNA transport</i>	0.332 %	-3.0563	0.89	0.99
<a href="#">GO:0051028</a>	<i>mRNA transport</i>	0.293 %	-3.2602	0.89	0.95
<a href="#">GO:0006405</a>	<i>RNA export from nucleus</i>	0.203 %	-3.3254	0.87	0.87
<a href="#">GO:0006406</a>	<i>mRNA export from nucleus</i>	0.138 %	-3.5859	0.83	0.92
<a href="#">GO:0071426</a>	<i>ribonucleoprotein complex export from nucleus</i>	0.224 %	-3.2135	0.89	0.96
<a href="#">GO:0071427</a>	<i>mRNA-containing ribonucleoprotein complex export from nucleus</i>	0.138 %	-3.5859	0.90	0.92
<a href="#">GO:0006913</a>	<i>nucleocytoplasmic transport</i>	0.466 %	-2.7544	0.89	0.92
<a href="#">GO:0051168</a>	<i>nuclear export</i>	0.281 %	-2.7616	0.89	0.95
<a href="#">GO:0010646</a>	<b>regulation of cell communication</b>	<b>1.139 %</b>	<b>-1.5774</b>	<b>0.87</b>	<b>0.33</b>
<a href="#">GO:0023051</a>	<b>regulation of signaling</b>	<b>1.126 %</b>	<b>-1.5870</b>	<b>0.90</b>	<b>0.34</b>
<a href="#">GO:0044700</a>	<i>single organism signaling</i>	8.899 %	-2.3462	0.83	0.91
<a href="#">GO:0070887</a>	<i>cellular response to chemical stimulus</i>	5.287 %	-2.3525	0.74	0.67
<a href="#">GO:0007165</a>	<i>signal transduction</i>	8.731 %	-2.3715	0.64	0.64
<a href="#">GO:0010033</a>	<i>response to organic substance</i>	8.580 %	-1.9402	0.78	0.68
<a href="#">GO:0006741</a>	<b>NADP biosynthetic process</b>	<b>0.013 %</b>	<b>-1.7542</b>	<b>0.79</b>	<b>0.34</b>
<a href="#">GO:0019363</a>	<i>pyridine nucleotide biosynthetic process</i>	0.056 %	-1.1195	0.77	0.91
<a href="#">GO:0019359</a>	<i>nicotinamide nucleotide biosynthetic process</i>	0.043 %	-1.1875	0.78	0.90
<a href="#">GO:0019674</a>	<i>NAD metabolic process</i>	0.078 %	-1.1636	0.79	0.66
<a href="#">GO:0006629</a>	<b>lipid metabolic process</b>	<b>4.683 %</b>	<b>-1.2547</b>	<b>0.80</b>	<b>0.35</b>
<a href="#">GO:0050794</a>	<b>regulation of cellular process</b>	<b>22.244 %</b>	<b>-1.4931</b>	<b>0.87</b>	<b>0.36</b>
<a href="#">GO:0050789</a>	<i>regulation of biological process</i>	24.333 %	-1.3109	0.92	0.61
<a href="#">GO:0010043</a>	<b>response to zinc ion</b>	<b>0.186 %</b>	<b>-2.5339</b>	<b>0.84</b>	<b>0.36</b>
<a href="#">GO:0071248</a>	<i>cellular response to metal ion</i>	0.216 %	-1.1225	0.78	0.96
<a href="#">GO:0071281</a>	<i>cellular response to iron ion</i>	0.177 %	-1.3684	0.78	0.61
<a href="#">GO:0010039</a>	<i>response to iron ion</i>	0.237 %	-1.1160	0.84	0.63
<a href="#">GO:0019762</a>	<b>glucosinolate catabolic process</b>	<b>0.104 %</b>	<b>-1.9290</b>	<b>0.77</b>	<b>0.36</b>
<a href="#">GO:0019760</a>	<i>glucosinolate metabolic process</i>	0.514 %	-1.0845	0.76	0.86
<a href="#">GO:0019759</a>	<i>glycosinolate catabolic process</i>	0.104 %	-1.9290	0.77	1.00
<a href="#">GO:0019757</a>	<i>glycosinolate metabolic process</i>	0.514 %	-1.0845	0.76	0.99
<a href="#">GO:0018904</a>	<b>ether metabolic process</b>	<b>0.142 %</b>	<b>-2.0115</b>	<b>0.83</b>	<b>0.37</b>
<a href="#">GO:0001944</a>	<b>vasculature development</b>	<b>0.108 %</b>	<b>-1.4121</b>	<b>0.84</b>	<b>0.37</b>
<a href="#">GO:0072358</a>	<i>cardiovascular system development</i>	0.108 %	-1.4121	0.84	1.00

<a href="#">GO:0072359</a>	circulatory system development	0.108 %	-1.4121	0.85	0.37
<a href="#">GO:0009605</a>	response to external stimulus	6.366 %	-1.0959	0.84	0.37
<a href="#">GO:0042493</a>	response to drug	0.367 %	-1.0436	0.84	0.38
<a href="#">GO:0071705</a>	nitrogen compound transport	1.515 %	-1.0911	0.92	0.38
<a href="#">GO:0042753</a>	positive regulation of circadian rhythm	0.086 %	-1.0613	0.93	0.39
<a href="#">GO:0009649</a>	<i>entrainment of circadian clock</i>	0.030 %	-1.0106	0.85	0.81
<a href="#">GO:0009628</a>	response to abiotic stimulus	7.946 %	-1.8415	0.83	0.39
<a href="#">GO:0009611</a>	response to wounding	0.816 %	-1.8699	0.86	0.39
<a href="#">GO:0010274</a>	hydrotropism	0.009 %	-1.4339	0.89	0.39
<a href="#">GO:0071260</a>	cellular response to mechanical stimulus	0.009 %	-1.3715	0.80	0.39
<a href="#">GO:0071475</a>	<i>cellular hyperosmotic salinity response</i>	0.009 %	-1.1409	0.81	0.67
<a href="#">GO:0071474</a>	<i>cellular hyperosmotic response</i>	0.013 %	-1.1409	0.80	0.51
<a href="#">GO:0005992</a>	trehalose biosynthetic process	0.095 %	-1.8790	0.80	0.40
<a href="#">GO:0046351</a>	<i>disaccharide biosynthetic process</i>	0.155 %	-1.3362	0.80	0.89
<a href="#">GO:0046487</a>	<i>glyoxylate metabolic process</i>	0.035 %	-1.1521	0.82	0.72
<a href="#">GO:0006097</a>	<i>glyoxylate cycle</i>	0.030 %	-1.1754	0.81	0.52
<a href="#">GO:0009312</a>	<i>oligosaccharide biosynthetic process</i>	0.255 %	-1.1628	0.81	0.83
<a href="#">GO:0005991</a>	<i>trehalose metabolic process</i>	0.104 %	-1.8424	0.82	0.85
<a href="#">GO:0071495</a>	cellular response to endogenous stimulus	3.988 %	-2.8722	0.81	0.41
<a href="#">GO:0071230</a>	<i>cellular response to amino acid stimulus</i>	0.095 %	-1.1195	0.79	0.59
<a href="#">GO:1901701</a>	<i>cellular response to oxygen-containing compound</i>	2.788 %	-1.8122	0.73	0.82
<a href="#">GO:0032870</a>	<i>cellular response to hormone stimulus</i>	3.871 %	-2.4927	0.71	0.75
<a href="#">GO:0071370</a>	<i>cellular response to gibberellin stimulus</i>	0.354 %	-1.1985	0.76	0.89
<a href="#">GO:0071396</a>	<i>cellular response to lipid</i>	1.770 %	-1.8899	0.74	0.81
<a href="#">GO:0071310</a>	<i>cellular response to organic substance</i>	4.601 %	-2.6621	0.72	0.88
<a href="#">GO:0009755</a>	<i>hormone-mediated signaling pathway</i>	3.617 %	-2.1015	0.62	0.94
<a href="#">GO:0009741</a>	<i>response to brassinosteroid</i>	0.410 %	-2.5148	0.81	0.55
<a href="#">GO:0009740</a>	<i>gibberellic acid mediated signaling pathway</i>	0.341 %	-1.3362	0.68	0.59
<a href="#">GO:0009735</a>	<i>response to cytokinin</i>	1.010 %	-1.8701	0.81	0.62
<a href="#">GO:0009725</a>	<i>response to hormone</i>	6.871 %	-2.5545	0.77	0.82
<a href="#">GO:0010476</a>	<i>gibberellin mediated signaling pathway</i>	0.345 %	-1.2518	0.68	0.99
<a href="#">GO:0006879</a>	cellular iron ion homeostasis	0.108 %	-1.0351	0.83	0.42
<a href="#">GO:0009631</a>	cold acclimation	0.199 %	-1.3971	0.83	0.43
<a href="#">GO:0009409</a>	<i>response to cold</i>	1.580 %	-1.0498	0.80	0.71
<a href="#">GO:0034614</a>	cellular response to reactive oxygen species	0.207 %	-1.1912	0.77	0.43
<a href="#">GO:0034599</a>	<i>cellular response to oxidative stress</i>	0.453 %	-1.0094	0.76	0.67
<a href="#">GO:0042221</a>	response to chemical	12.434 %	-1.3467	0.82	0.43
<a href="#">GO:0006814</a>	sodium ion transport	0.121 %	-1.1195	0.91	0.44
<a href="#">GO:0010623</a>	programmed cell death involved in cell development	0.035 %	-1.1301	0.82	0.45
<a href="#">GO:0015749</a>	monosaccharide transport	0.229 %	-1.3346	0.85	0.46
<a href="#">GO:0080167</a>	response to karrikin	0.531 %	-2.7776	0.82	0.47
<a href="#">GO:0090701</a>	specification of plant organ identity	0.060 %	-2.1057	0.82	0.47
<a href="#">GO:0080110</a>	<i>sporopollenin biosynthetic process</i>	0.030 %	-1.2693	0.76	0.63
<a href="#">GO:0003002</a>	<i>regionalization</i>	0.617 %	-1.0207	0.82	0.82
<a href="#">GO:0010159</a>	<i>specification of animal organ position</i>	0.051 %	-2.1043	0.82	0.67
<a href="#">GO:1905393</a>	<i>plant organ formation</i>	0.427 %	-1.0737	0.86	0.75
<a href="#">GO:0010305</a>	<i>leaf vascular tissue pattern formation</i>	0.117 %	-1.3362	0.84	0.71
<a href="#">GO:1904062</a>	regulation of cation transmembrane transport	0.022 %	-1.0798	0.88	0.47
<a href="#">GO:2001257</a>	<i>regulation of cation channel activity</i>	0.009 %	-1.0798	0.87	0.69
<a href="#">GO:1901016</a>	<i>regulation of potassium ion transmembrane transporter activity</i>	0.013 %	-1.0798	0.77	0.96
<a href="#">GO:1901979</a>	<i>regulation of inward rectifier potassium channel activity</i>	0.009 %	-1.0798	0.68	0.94
<a href="#">GO:1901379</a>	<i>regulation of potassium ion transmembrane transport</i>	0.017 %	-1.0798	0.78	0.94
<a href="#">GO:0043266</a>	<i>regulation of potassium ion transport</i>	0.030 %	-1.0186	0.87	0.70
<a href="#">GO:0042991</a>	transcription factor import into nucleus	0.026 %	-1.4814	0.84	0.47
<a href="#">GO:0051716</a>	cellular response to stimulus	12.637 %	-1.3264	0.79	0.48
<a href="#">GO:0019433</a>	triglyceride catabolic process	0.017 %	-1.6306	0.78	0.49
<a href="#">GO:0044242</a>	<i>cellular lipid catabolic process</i>	0.315 %	-1.0231	0.75	0.63
<a href="#">GO:0046464</a>	<i>acylglycerol catabolic process</i>	0.022 %	-1.3173	0.78	0.99
<a href="#">GO:0046461</a>	<i>neutral lipid catabolic process</i>	0.022 %	-1.3173	0.78	0.76
<a href="#">GO:0046503</a>	<i>glycerolipid catabolic process</i>	0.035 %	-1.3173	0.77	0.69
<a href="#">GO:0051276</a>	chromosome organization	1.118 %	-1.2674	0.94	0.49
<a href="#">GO:0080027</a>	response to herbivore	0.043 %	-2.3194	0.87	0.49
<a href="#">GO:0010201</a>	response to continuous far red light stimulus by the high-irradiance response system	0.009 %	-1.0893	0.84	0.49
<a href="#">GO:0055122</a>	response to very low light intensity stimulus	0.009 %	-1.6679	0.85	0.49
<a href="#">GO:0010203</a>	<i>response to very low fluence red light stimulus</i>	0.004 %	-1.8050	0.84	0.53
<a href="#">GO:0009647</a>	<i>skotomorphogenesis</i>	0.026 %	-1.1301	0.73	0.58
<a href="#">GO:0010450</a>	inflorescence meristem growth	0.013 %	-1.5645	0.85	0.49
<a href="#">GO:0035266</a>	<i>meristem growth</i>	0.216 %	-1.0259	0.85	0.61
<a href="#">GO:0033528</a>	S-methylmethionine cycle	0.004 %	-1.7542	0.91	0.50
<a href="#">GO:0033477</a>	<i>S-methylmethionine metabolic process</i>	0.004 %	-1.7542	0.91	0.58
<a href="#">GO:0033993</a>	response to lipid	3.267 %	-2.1991	0.79	0.50