

source	term name Gene Ontology (Biological process)	term ID	n. of term genes	corrected p-value	ARAB	BELGIAN	FM	FT	ICELANDIC	LUSTIANO	MAREMMANO	MORGAN	QH	SB	TB	WP
BP	regulation of protein deacetylation	GO:0090311	28	3.87e-03												4
BP	aminoglycan catabolic process	GO:0006026	23	7.73e-04												5
BP	signaling	GO:0023052	5192	6.73e-03								44				
BP	response to stimulus	GO:0050896	6747	4.46e-02								50				
BP	detection of stimulus	GO:0051606	1089	5.89e-08								24	36			
BP	detection of chemical stimulus	GO:0009593	1004	2.79e-09								52	24	36		
BP	system process	GO:0003008	1954	7.29e-03								36				
BP	nervous system process	GO:0050877	1525	5.52e-05								35	42	44		
BP	sensory perception	GO:0007600	1291	2.90e-06								34	45	40		
BP	sensory perception of chemical stimulus	GO:0007606	1044	1.23e-08								52	24	37		
BP	sensory perception of smell	GO:0007608	971	7.69e-10								52	24	36		
BP	detection of stimulus involved in sensory perception	GO:0050906	1019	4.91e-09								52	24	36		
BP	detection of chemical stimulus involved in sensory perception	GO:0050907	985	1.34e-09								52	24	36		
BP	detection of chemical stimulus involved in sensory perception ...	GO:0050911	952	3.56e-10								52	24	35		
BP	cellular process	GO:0009987	14012	1.06e-03								42				37
BP	cell communication	GO:0007154	5238	8.69e-03								44				
BP	cellular response to stimulus	GO:0051716	5795	7.85e-03								47				
BP	signal transduction	GO:0007165	4877	1.05e-03								44				
BP	G-protein coupled receptor signaling pathway	GO:0007186	1585	7.36e-08								39	17	42		
BP	regulation of biological process	GO:0050789	9088	2.84e-02								50				
BP	negative regulation of biological process	GO:0048519	3430	1.12e-03												98
BP	negative regulation of cellular process	GO:0048523	3143	2.64e-03												11
BP	negative regulation of metabolic process	GO:0009892	1900	6.99e-04												42
BP	negative regulation of macromolecule metabolic process	GO:0010605	1732	3.57e-03												38
BP	negative regulation of nitrogen compound metabolic process	GO:0051172	1632	1.68e-02												35
BP	negative regulation of cellular metabolic process	GO:0031324	1750	1.69e-03												39
BP	negative regulation of NLRP3 inflammasome complex assembly	GO:1900226	3	3.15e-02	2											
BP	hyaluronan catabolic process	GO:0030214	7	8.19e-03												9
BP	protein-DNA complex subunit organization	GO:0071824	192	1.75e-07								16				13
BP	macromolecular complex assembly	GO:0065003	1227	3.09e-02												20
BP	cellular macromolecular complex assembly	GO:0034622	799	5.85e-03												18
BP	protein-DNA complex assembly	GO:0065004	167	1.14e-07												53
BP	organelle organization	GO:0006996	2788	2.11e-02								16				41
BP	chromosome organization	GO:0051276	858	3.47e-07												
BP	DNA conformation change	GO:0071103	193	1.40e-06												
BP	DNA packaging	GO:0006323	142	6.00e-08												
BP	chromatin organization	GO:0006325	553	1.47e-10												
BP	chromatin assembly or disassembly	GO:0006333	136	2.83e-09												
BP	chromatin assembly	GO:0031497	117	2.07e-09												
BP	nucleosome organization	GO:0034728	129	1.07e-09												
BP	nucleosome assembly	GO:0006334	104	2.52e-10												
BP	negative regulation of histone deacetylation	GO:0031064	2	2.26e-02												2
BP	negative regulation of megakaryocyte differentiation	GO:0045653	7	2.53e-02												3
BP	negative regulation of I-kappaB kinase/NF-kappaB signaling	GO:0043124	42	2.52e-02												4
BP	response to UV-B	GO:0010224	15	3.32e-02												5
BP	cellular response to UV-B	GO:0071493	7	8.19e-03												9
BP	negative regulation of kinase activity	GO:0033673	193	3.74e-02												9
BP	negative regulation of MAPK cascade	GO:0043409	105	1.91e-02												9
BP	calcium activated phosphatidyserine scrambling	GO:0061589	4	3.73e-02												9
BP	regulation of histone phosphorylation	GO:0033127	8	1.03e-02												4

source	term name Gene Ontology (Cellular component)	term ID	n. of term genes	corrected p-value	ARAB	BELGIAN	FM	FT	ICELANDIC	LUSTIANO	MAREMMANO	MORGAN	QH	SB	TB	WP
CC	nucleoplasm	GO:0005654	2058	1.32e-02												89
CC	membrane	GO:0016020	7773	4.30e-02												44
CC	membrane part	GO:0044425	6023	3.81e-03												33
CC	intrinsic component of membrane	GO:0031224	5275	5.71e-04												32
CC	integral component of membrane	GO:0016021	5228	4.55e-04												32
CC	organelle	GO:0043226	9830	1.90e-03												31
CC	membrane-bounded organelle	GO:0043227	8940	5.68e-04												29
CC	organelle part	GO:0044422	5774	5.90e-03												28
CC	cell	GO:0005623	14128	1.82e-03												26
CC	cell part	GO:0044464	14089	5.83e-03												26
CC	intracellular part	GO:0044424	11151	1.96e-02												31
CC	intracellular organelle	GO:0043229	8832	5.99e-04												31
CC	intracellular organelle part	GO:0044446	5612	1.83e-03												34
CC	intracellular membrane-bounded organelle	GO:0043231	7514	1.96e-04												29
CC	nucleus	GO:0005634	5002	6.48e-04												25
CC	endoplasmic reticulum-Golgi intermediate compartment	GO:0005793	46	2.34e-02												18
CC	cell periphery	GO:0071944	3991	2.57e-05												42
CC	plasma membrane	GO:0005886	3890	1.16e-05												42
CC	DNA packaging complex	GO:0044815	97	4.68e-17												15
CC	protein-DNA complex	GO:0032993	164	8.29e-14												13
CC	chromosome	GO:0005694	750	5.80e-07												18
CC	chromosomal part	GO:0044427	695	8.44e-07												17
CC	nuclear chromosome part	GO:0044454	419	3.34e-02												15
CC	chromatin	GO:0000785	415	3.73e-09												17
CC	nuclear chromatin	GO:0000790	264	8.90e-03												17
CC	nucleosome	GO:0000786	90	7.28e-18												15
CC	hemoglobin complex	GO:0005833	5	2.16e-02												2

source	term name Gene Ontology (Molecular function)	term ID	n. of term genes	corrected p-value	ARAB	BELGIAN	FM	FT	ICELANDIC	LUSTIANO	MAREMMANO	MORGAN	QH	SB	TB	WP
MF	histone binding	GO:0042393	149	2.68e-03												16
MF	chitin binding	GO:0008061	6	1.25e-02												3
MF	glutathione transferase activity	GO:0004364	27	3.42e-02												4
MF	protein dimerization activity	GO:0046983	887	5.61e-03												33
MF	protein heterodimerization activity	GO:0046982	349	7.54e-08												47
MF	signal transducer activity	GO:0004871	1950	6.16e-06												18
MF	molecular transducer activity	GO:0060089	1938	5.20e-06												26
MF	receptor activity	GO:0004872	1904	3.52e-06												31
MF	transmembrane receptor activity	GO:0099600	1684	2.79e-07												65
MF	signaling receptor activity	GO:0038023	1733	5.15e-07												18
MF	transmembrane signaling receptor activity	GO:0004888	1652	1.85e-07												17
MF	olfactory receptor activity	GO:0004984	952	3.56e-10												40
MF	G-protein coupled receptor activity	GO:0004930	1321	7.66e-08												38
MF	hyaluronoglucosaminidase activity	GO:0004415	9	1.95e-02												3
MF	glycine N-acyltransferase activity	GO:0047961	4	2.04e-02												3
MF	odorant binding	GO:0005549	224	3.31e-20	25	25	26	20	16	14	22	27				