

S1. Overall distribution of genes differentially expressed in all time courses into main functional categories according to Funcassociate Tool

Rank	N	X	P-value	GO Attribute	Functional category
1	205	229	4.7E-13	16491	oxidoreductase activity/redox activity
2	136	145	6.2E-13	5830	cytosolic ribosome (sensu Eukaryota)/80S ribosome
3	71	72	1.7E-10	16614	oxidoreductase activity, acting on CH-OH group of donors
4	64	65	2.0E-09	16616	oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor
5	244	289	3.9E-09	19752	carboxylic acid metabolism
6	244	289	3.9E-09	6082	organic acid metabolism
7	72	75	1.1E-08	5842	cytosolic large ribosomal subunit (sensu Eukaryota)/60S ribosomal subunit/cytosolic large ribosomal subunit
8	129	148	5.1E-07	6066	alcohol metabolism
9	155	184	4.0E-06	5975	carbohydrate metabolism
10	53	56	4.6E-06	5843	cytosolic small ribosomal subunit (sensu Eukaryota)/40S ribosomal subunit/cytosolic small ribosomal subunit
11	53	56	4.6E-06	16283	eukaryotic 48S initiation complex
12	61	66	8.0E-06	16282	eukaryotic 43S preinitiation complex/eukaryotic 43S pre-initiation complex
13	187	227	8.7E-06	6807	nitrogen compound metabolism
14	604	791	8.8E-06	43228	non-membrane-bound organelle
15	604	791	8.8E-06	43232	intracellular non-membrane-bound organelle
16	278	348	9.9E-06	5829	cytosol
17	173	209	1.1E-05	9308	amine metabolism
18	173	209	1.1E-05	6091	generation of precursor metabolites and energy/energy pathways
19	148	177	1.6E-05	6520	amino acid metabolism
20	141	168	1.7E-05	44262	cellular carbohydrate metabolism
21	83	94	2.0E-05	9277	cell wall (sensu Fungi)
22	83	94	2.0E-05	5618	cell wall
23	83	94	2.0E-05	30312	external encapsulating structure
24	78	88	2.5E-05	5996	monosaccharide metabolism
25	74	83	2.5E-05	9117	nucleotide metabolism
26	158	191	2.8E-05	6519	amino acid and derivative metabolism
27	619	816	2.9E-05	9058	biosynthesis/anabolism
28	91	105	4.3E-05	8324	cation transporter activity
29	34	35	5.6E-05	46164	alcohol catabolism
30	150	182	6.5E-05	15980	energy derivation by oxidation of organic compounds/chemoorganotrophy
31	106	125	7.8E-05	15075	ion transporter activity

Rank position in the attribute list ranked by significance of association with your query

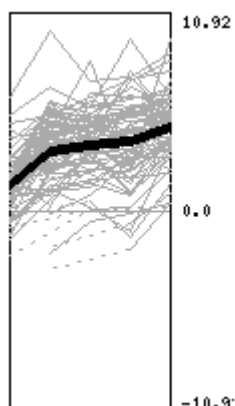
N number of genes in your query with this attribute;

X number of genes overall with this attribute;

P single hypothesis one-sided P-value of the association between attribute and query (based on Fisher's Exact Test);

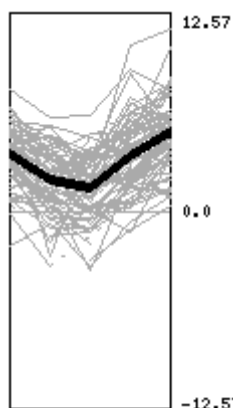
S 3 - Gene list for each cluster presented in Figure 3.

CLUSTER 1



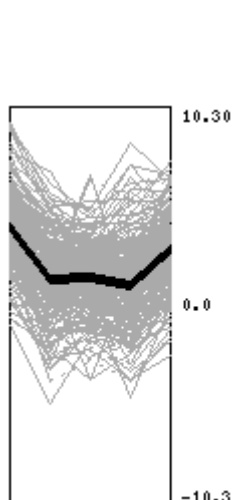
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CLUSTER 2



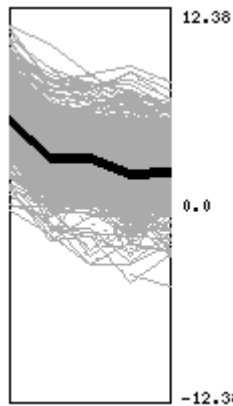
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CLUSTER 3



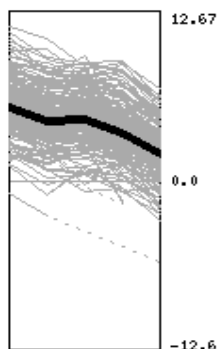
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CLUSTER 4



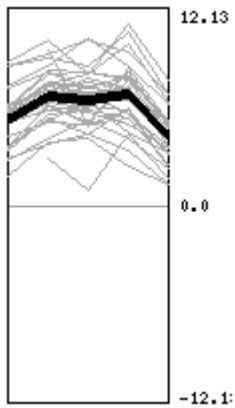
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CLUSTER 5



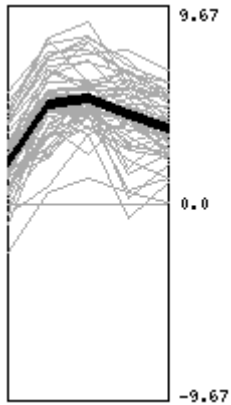
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CLUSTER 6



AFT2, ATC1, CIN5, ECM4, GAT2, HAP4, IME1, ISF1, NDE2, NIP1, NSR1, OM45, PHO2, POG1, ROX1, RPS16B, RPS20, RPS26A, UTP19, YBR230C, YCL046W, YDL038C, YDR070C, YGP1, YGR035C, YGR052W, YHR097C, YHR138C, YKL044W, YOR342C, ZRG8

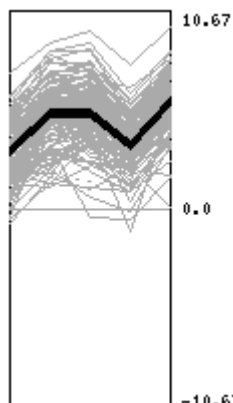
CLUSTER 7



AQY1, ARG80, CUP1-2, DAT1, DBP3, DDR2, FPR4, FUS3, GND2, GRE1, HBT1, HSP12, IMP3, LCP5, LTV1, NMD3, NOG1, NOP1, NOP7, NRP1, PRM7, RCK1, RED1, RPA135, RPA43, RPF2, RPL12A, RPL12B, RPL24, RPL24B, RPL26B, RPL27A, RPL31A, RPS0A, RPS15, RPS9B, RRB1, RRP12, SDA1, SRO9, SSA3, UTP14, WHI5, YBR266C, YBR267W, YEL045C, YJR070C, YKL053W, YLR073C, YPL044C, YPL142C

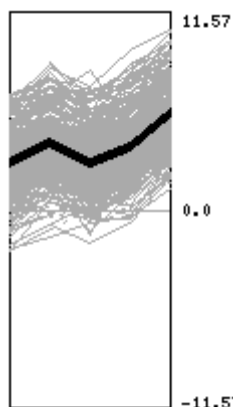
S4 - Gene list for each cluster presented in Figure 6.

CLUSTER 1



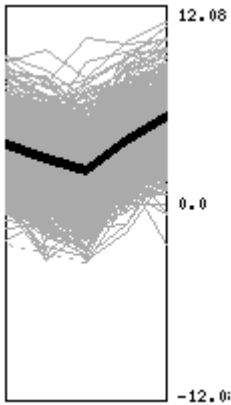
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CLUSTER 2



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KEL3 KIN4 KRE29 KRI1 KTI11 LCP5 LEU3 LGE1 LRP1 LSG1 LTV1 MAK16 MAK5
MBP1 MBR1 MDH2 MDJ1 MET31 MET4 MFT1 MIG1 MLP2 MMS21 MOT3 MRPS17
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NOP15 NOP4 NOP6 NOP8 NRP1 NSA1 NSR1 NUP1 OGG1 ORC1 OYE2 OYE3
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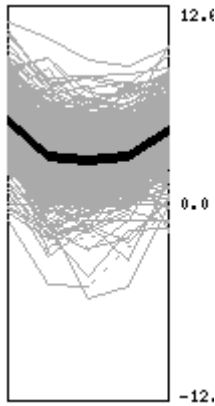
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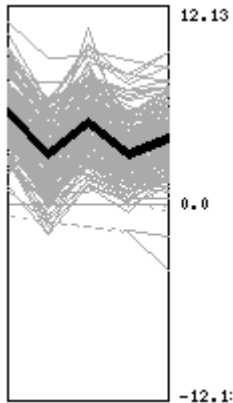
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TFC7 YEL030C-A YGR110W YNR062C YML009W-B ICY2 YOR292C YMR318C CLB3 SNF3
MEC1 POT1 ARP8 GTT2 YKR041W YGR283C STB5 YPR093C IES6 YPL014W MRD1 UGA2
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UBR1 SMP1 YNL187W YBR273C YKL171W YCR006C YLR023C NPL3 PGK1 YLR326W
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CLUSTER 4

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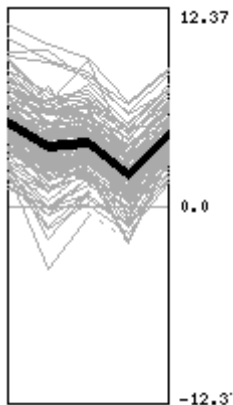


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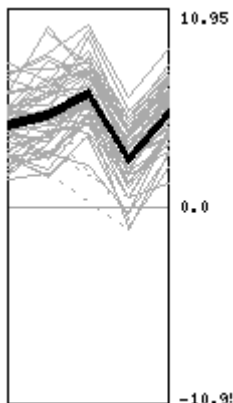
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CLUSTER 6



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YJL091C SEN34 YEF3 MCM16 RGA1 YPL102C IQG1 MHT1 PRP16 TUB2 YOR385W
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RPB7 PMI40 YNL109W YLR187W YOR114W CDC20 OST6 SPC25 YMR299C TVP38
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CLUSTER 7



ATC1 BNR1 CLN1 CTR86 CTR9 ECI1 ELG1 HAL9 MAP1 MCM21 MTR4 PCL9 PDR12
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TOM1 TRS120 UBP12 VAB2 VMA21 YBR100W YBR184W YDR467C YFR041C YGL102C
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