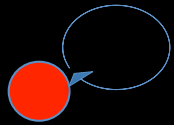


level-level	3->2	3->1	2->1	1->2	1->3	2->3	3->3	2->2	1->1
number of edges	78	88	79	8	8	15	9+6	13+11	20+11

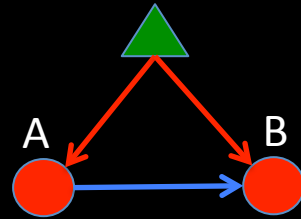
Mapping motifs to the hierarchy

autoregulator



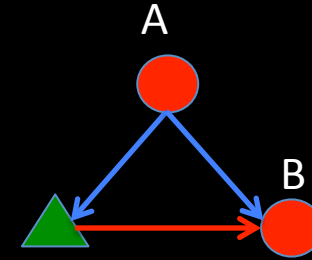
28

Auto-regulation is depleted at the top layer: 6 autoregulator out of 43 TFs (28 out of 119 in the whole system)



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LA->LB	Obs	Exp	P
11	0	3.7	3e-3
12	4	1.5	1e-3
13	0	1.5	0.06
21	15	14.7	0.89
22	2	2.4	0.68
23	2	2.8	0.46
31	17	16.3	0.79
32	14	14.5	0.85
33	5	1.7	1e-4



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LA->LB	Obs	Exp	P
11	0	1.8	0.04
12	2	0.7	0.03
13	2	0.7	0.03
21	4	7.2	0.08
22	5	1.2	2e-7
23	0	1.4	0.08
31	2	8.0	0.002
32	11	7.1	0.03
33	3	0.8	4e-4