

Table X.

Category	Property	General network				Hierarchical network			P-value between levels using Wilcoxon-test			
		Correlation with				Average value for the Level			Top-Middle	Middle-Bottom	Top-Bottom	
		Degree centrality in TF-TF network	Betweenness centrality in entire network	Betweenness centrality in TF-TF network	Betweenness (O-1)/(+O)	O-1	Top	Middle	Bottom	Top-Middle	Middle-Bottom	Top-Bottom
Topology	# of TF partners in PPI # of miRNA regulators # of ncRNA targets # of distal targets	<i>0.27**</i> <i>0.33**</i> <i>0.49**</i> <i>0.24*</i>	<i>0.25*</i> -0.02 <i>0.34**</i> <i>0.19*</i>	<i>0.33**</i> 0.00 <i>0.35**</i> <i>0.23*</i>	0.08 <i>0.29**</i> <i>0.22*</i> 0.07	0.08 <i>0.34**</i> <i>0.23*</i> 0.07	27 16 630 92	18 24 593 116	11 10 321 54	4.45E-01 2.87E-01 7.91E-01 1.30E-01	7.51E-02 9.27E-03 7.00E-03 4.23E-01	1.66E-02 8.95E-02 1.21E-03 2.42E-01
Dynamics	Amount of rewiring Tissue specificity	-0.12 -0.19	<i>0.44*</i> -0.13	0.35 -0.19	-0.18 -0.07	-0.12 -0.18	9114 0.54	9124 0.81	9182 1.06	5.97E-01 3.79E-01	3.39E-02 6.24E-01	2.60E-02 2.14E-01
Expression	Expression level Binding-expression correlation	0.12 <i>0.31**</i>	<i>0.23*</i> <i>0.30**</i>	<i>0.27*</i> <i>0.36**</i>	-0.04 <i>0.19*</i>	-0.09 0.08	2611 0.56	10593 0.63	2985 0.62	9.80E-01 8.56E-01	5.93E-01 2.45E-02	5.46E-01 3.63E-02
Selection properties for factors	SNP density Allelicity	-0.27* <i>0.28*</i>	-0.01 -0.11	-0.03 -0.16	-0.22 0.18	-0.17 0.19	0.0010 0.2	0.0031 0.13	0.0038 0.18	9.19E-03 3.16E-01	6.23E-01 4.28E-01	3.57E-02 3.30E-01

* P-value<0.05

** P-value<0.01

Betweenness maximizes in the middle level – i.e. bottlenecks are in the middle