

Table S1: General characteristics of GGI networks

Organism	Network type	#Nodes	#Interactions	<K>	Y	C	C_{rand}	l	l_{rand}
Human	PPI network (HIPPIE, ¹ Cutoff: 0.68)	13987	130761*2	18.7	1.50	0.051	0.0013	3.34	3.60
	PPI network (HIPPIE, ¹ Cutoff: 0.77)	9656	45842*2	9.5	1.67	0.071	0.0012	3.97	4.33
	PPI network (HPRD)	8621	32342*2	7.5	1.81	0.055	0.0008	4.26	4.7
	GC network (² Cutoff: 0.4)	13123	794265*2	121	1.19	0.457	0.0092	3.23	2.32
Mouse	PPI network (¹ Cutoff: 0.68)	4633	9921*2	4.3	1.49	0.029	0.0010	4.36	6.04

Abbreviations:

PPI: Protein-Protein Interaction; GC: Gene Co-expression;

¹Confidence score; ²Pearson correlation coefficient;

#Nodes: Number of nodes; #Interactions: Number of interacting links; <K>: Average connectivity (degree) of network;

Y: Degree exponent of scale-free network; C: Clustering coefficient of network; l: Average path length of network;

C_{rand}, l_{rand}: Clustering coefficient and average path length of random network with the same numbers of nodes and interactions.