

1 Tab. 1

Empirical network							Random network							
St	Powerlaw R^2	Node number	Edge number	Positive edges (%)	Negative edges (%)	avgK	Module number	avgC	Modularity (M)	GD	avgCC	Modularity (M)	GD	
M0	0.75	0.336	39	154	90.91	9.09	7.9	6	0.85	0.37	1.61	0.43±0.01	0.13±0.00	2.04±0.01
M3	0.75	0.617	122	2540	98.11	1.89	41.64	5	0.91	0.26	1.26	0.66±0.00	0.01±0.00	1.73±0.01
M4	0.75	0.539	54	126	96.83	3.17	4.67	8	0.73	0.78	3.03	0.09±0.01	0.35±0.01	2.73±0.01
M5	0.75	0.33	78	357	95.52	4.48	9.15	6	0.86	0.76	1.99	0.16±0.01	0.21±0.01	2.20±0.00
M6	0.75	0.512	66	366	98.91	1.09	11.09	7	0.81	0.39	3.85	0.42±0.00	0.08±0.00	2.13±0.02
M7	0.75	0.417	57	221	95.02	4.98	7.75	7	0.89	0.73	1.13	0.18±0.01	0.21±0.01	2.20±0.01

2 Note:

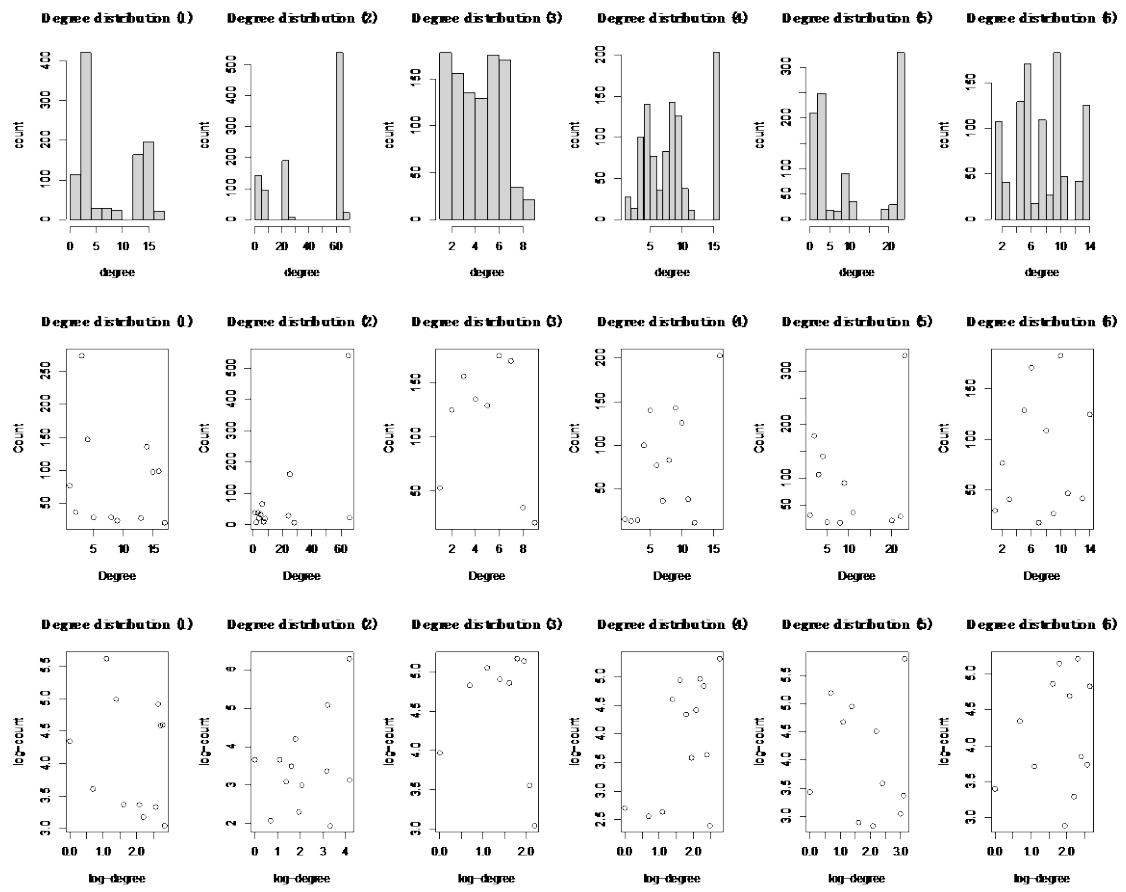
3 St: Similarity threshold

4 avgK: Average degree

5 GD: Average path distance

6 avgCC: Average cluster coefficient

7 Supplementary figure 1



Supplementary figure2

