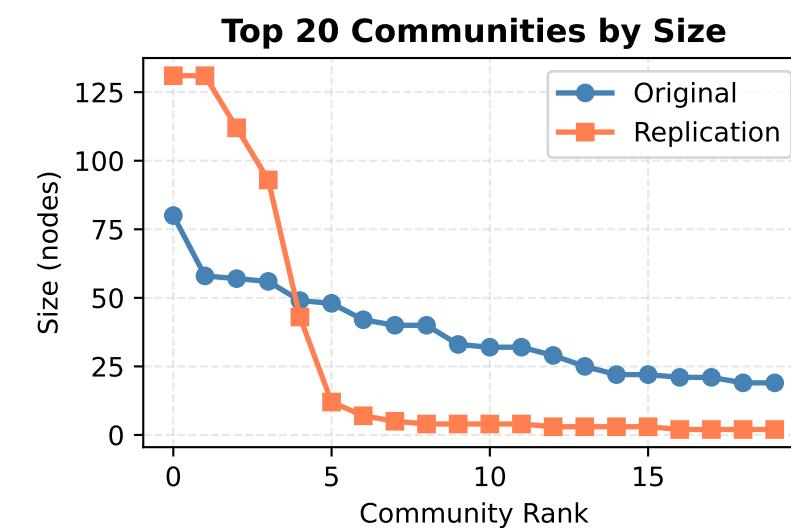
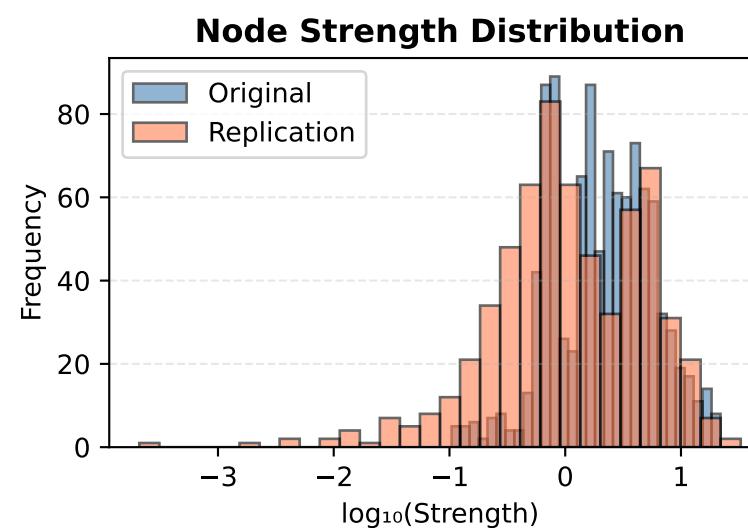
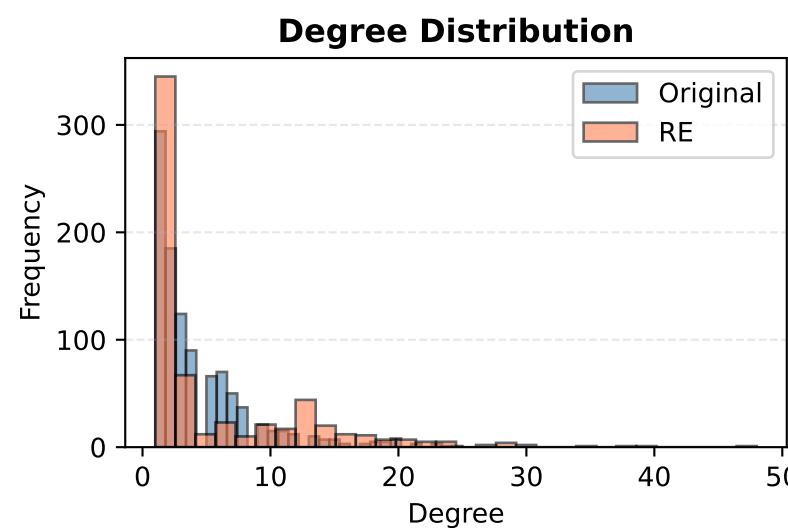
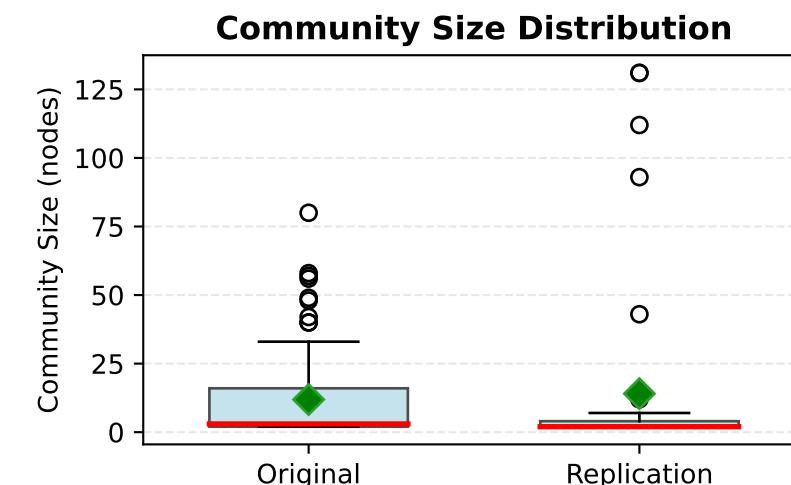


Backbone Network Comparison: Original vs Replication

Metric	Original Backbone	Consensus GenePPI
Nodes	1035	701
Edges	2199	3121
Density	0.0041	0.0127
Avg Degree	4.25	8.90
Avg Clustering	0.389	0.273
Communities	87	44



Rank	Original: Node	Comm	Deg	Strength	Replication: Node	Comm	Deg	Strength
1	Diabetes Mellitus	0	24	21.942	Microcephaly	3	48	32.821
2	Hyperlipidemias	0	23	20.793	Polydactyly	3	35	22.163
3	Skin Diseases	9	25	19.956	Mucopolysaccharidoses	3	29	20.476
4	Metabolic Diseases	0	21	18.828	Monosomy	3	30	20.386
5	Insulin Resistance	0	20	18.819	Dwarfism	1	30	19.964

Note: Different node ID systems prevent direct node-level comparison. Structural metrics remain comparable.