

Supplementary Information

Table S1. Robustness of the Structural Characteristics of FDR-Nets

Metric	2019 ($\alpha=0.005$)	2020 ($\alpha=0.005$)	Diff.	Relative Diff.	2019 ($\alpha=0.001$)	2020 ($\alpha=0.001$)	Diff.	Relative Diff.
# Nodes	21,252	21,225	-27	-0.13%	20,991	20,867	-124	-0.59%
# Links	849,281	825,936	-23,345	-2.75%	501,521	488,039	-13,482	-2.69%
Density	0.004	0.004	0	0.00%	0.002	0.002	0	0.00%
Average degree	79.9	77.8	-2.1	-2.63%	47.8	46.8	-1	-2.09%
Median degree	66	65	-1	-1.52%	37	36	-1	-2.70%
Diameter	12	13	1	8.33%	13	12	-1	-7.69%
Clustering coefficient	0.501	0.497	-0.004	-0.80%	0.468	0.466	-0.002	-0.43%
Degree assortativity	0.486	0.502	0.016	3.29%	0.687	0.625	-0.062	-9.02%
College assortativity	0.749	0.749	0	-0.02%	0.815	0.810	-0.005	-0.63%
School year assortativity	0.408	0.384	-0.023	-5.71%	0.546	0.522	-0.024	-4.45%
Gender assortativity	0.169	0.172	0.003	1.56%	0.177	0.176	-0.001	-0.52%
Current residence assortativity	0.019	0.027	0.007	37.63%	0.022	0.031	0.009	39.30%
Hometown origins assortativity	0.019	0.018	-0.001	-5.54%	0.016	0.018	0.002	9.82%
GPA ranking assortativity	0.137	0.164	0.027	19.81%	0.137	0.168	0.031	22.72%
Self-evaluation assortativity	0.0347	0.0269	-0.008	-22.62%	0.032	0.0303	-0.002	-5.20%

Notes: Robustness of the structural characteristics of FDR-Nets with respect to different significance thresholds for the false discovery rate ($\alpha = 0.005$ and 0.001). Network properties and assortative mixing measures are reported for the yearly co-enrollment networks in 2019 and 2020. Differences (Diff.) and relative differences (Relative Diff.) quantify changes between the two years. Consistent with the main results ($\alpha = 0.01$; Tables 4 and 5), the networks constructed with $\alpha = 0.005$ exhibit highly similar macroscopic structure and assortative patterns. When the threshold is further tightened to $\alpha = 0.001$, the number of links decreases substantially due to more stringent link filtering, leading to somewhat larger deviations in certain network measures. Nevertheless, the overall structural characteristics and assortative mixing patterns remain qualitatively consistent across thresholds.