

S1 Table. The selection of the MI threshold value λ on the structure of networks.

| λ | clusters | Average | Max | Min | modularity | modularity | nodes |
|-----------|----------|---------|-----|-----|------------|------------|-------|
| 0.4 | 3 | 500.333 | 782 | 41 | -0.201 | 0.166 | 1501 |
| 0.5 | 3 | 499.667 | 772 | 32 | -0.178 | 0.184 | 1499 |
| 0.6 | 3 | 499.667 | 772 | 32 | -0.178 | 0.184 | 1499 |
| 0.7 | 3 | 495.333 | 763 | 186 | -0.084 | 0.224 | 1486 |
| 0.8 | 3 | 490 | 608 | 266 | 0.028 | 0.273 | 1470 |
| 0.9 | 7 | 206.857 | 661 | 2 | 0.006 | 0.272 | 1448 |
| 1.0 | 12 | 118.5 | 562 | 2 | 0.103 | 0.305 | 1422 |
| 1.1 | 18 | 76.889 | 621 | 2 | 0.074 | 0.298 | 1384 |
| 1.2 | 18 | 73.889 | 405 | 2 | 0.155 | 0.362 | 1330 |
| 1.3 | 19 | 67.421 | 407 | 2 | 0.242 | 0.383 | 1281 |
| 1.4 | 26 | 47.115 | 367 | 2 | 0.219 | 0.397 | 1225 |
| 1.5 | 35 | 33.257 | 351 | 2 | 0.244 | 0.416 | 1164 |
| 1.6 | 38 | 28.605 | 282 | 2 | 0.292 | 0.442 | 1087 |
| 1.7 | 46 | 21.761 | 250 | 2 | 0.331 | 0.467 | 1001 |
| 1.8 | 54 | 16.963 | 241 | 2 | 0.365 | 0.484 | 916 |
| 1.9 | 61 | 13.328 | 215 | 2 | 0.43 | 0.533 | 813 |
| 2.0 | 64 | 11.156 | 140 | 2 | 0.481 | 0.576 | 714 |