**Supplementary Table 3:** Size and clustering coefficient of all co-occurrence networks large enough to apply BEAST and GMYC models.

|  |  |  |
| --- | --- | --- |
| **Network Name** | **No. of Nodes** | **Clustering coefficient** |
| 37 | 231 | 0.775 |
| 339 | 164 | 0.796 |
| 555 | 139 | 0.742 |
| 557 | 133 | 0.871 |
| 541 | 129 | 0.702 |
| 178 | 92 | 0.653 |
| 478 | 91 | 0.845 |
| 490 | 90 | 0.714 |
| 542 | 90 | 0.754 |
| 404 | 74 | 0.712 |
| 484 | 67 | 0.719 |
| 536 | 66 | 0.81 |
| 15 | 61 | 0.629 |
| 122 | 58 | 0.823 |
| 538 | 58 | 0.804 |
| 504 | 55 | 0.734 |
| 290 | 52 | 0.732 |
| 520 | 49 | 0.919 |
| 317 | 48 | 0.74 |
| 381 | 45 | 0.675 |
| 543 | 45 | 0.762 |
| 566 | 44 | 0.809 |
| 351 | 41 | 0.825 |
| 544 | 41 | 0.824 |
| 495 | 32 | 0.806 |
| 596 | 28 | 0.838 |
| 378 | 25 | 0.757 |
| 559 | 24 | 0.74 |
| 232 | 23 | 0.816 |
| 311 | 23 | 0.631 |
| 194 | 22 | 0.837 |
| 332 | 21 | 0.793 |
| 86 | 19 | 0.735 |
| 549 | 19 | 0.735 |
| 385 | 15 | 0.829 |
| 393 | 14 | 1 |
| 288 | 13 | 0.654 |
| 352 | 13 | 0.977 |
| 486 | 12 | 1 |
| 396 | 11 | 0.776 |
| 435 | 11 | 1 |
| 282 | 10 | 0.832 |
| 305 | 10 | 0.587 |
| 330 | 10 | 1 |
| 586 | 10 | 0.363 |