**Table S1:** Frequency of cliques according to the size of cliques (number of nodes). Last row (yellow color) for each cancer represents the size and number of maximal cliques for the corresponding cancer.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| BRCA | | COAD | | GBM | |
| Size | Frequency | Size | Frequency | Size | Frequency |
| 3 | 48 | 3 | 81 | 3 | 68 |
| 4 | 43 | 4 | 95 | 4 | 76 |
| 5 | 35 | 5 | 82 | 5 | 71 |
| 6 | 14 | 6 | 129 | 6 | 18 |
| 7 | 13 | 7 | 115 | 7 | 29 |
| 8 | 4 | 8 | 113 | 8 | 20 |
| 9 | 2 | 9 | 139 | 9 | 20 |
| 10 | 2 | 10 | 133 | 10 | 24 |
| 11 | 6 | 11 | 101 | 11 | 6 |
| 12 | 13 | 12 | 119 |  |  |
| 13 | 15 | 13 | 103 |  |  |
| 14 | 7 | 14 | 97 |  |  |
| 15 | 3 | 15 | 70 |  |  |
| 16 | 1 | 16 | 80 |  |  |
| 17 | 3 | 17 | 27 |  |  |
|  |  | 18 | 41 |  |  |
|  |  | 19 | 10 |  |  |