**SUPPLEMENTARY TABLE**

Supplementary Table 2. The analysis of the PPI network.

| node_name | MCC | DMNC | MNC | Degree | EPC | BottleNeck | Eccentricity | Closeness | Radiality | Betweenness | Stress | ClusteringCoefficient |
|-----------|-----|------|-----|--------|-----|------------|--------------|-----------|-----------|-------------|--------|-----------------------|
| UGT1A10   | 1   | 0    | 1   | 1.429  | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| UGT1A1    | 1   | 0    | 1   | 1.429  | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| RPL36A    | 6   | 0.46346 | 3   | 4.331  | 1   | 0.12       | 7.05         | 1.87059    | 0         | 0           | 1      |                      |
| RPL39     | 6   | 0.46346 | 3   | 4.291  | 1   | 0.12       | 7.05         | 1.87059    | 0         | 0           | 1      |                      |
| RPL10     | 6   | 0.46346 | 3   | 4.346  | 1   | 0.12       | 7.05         | 1.87059    | 0         | 0           | 1      |                      |
| PRKCE     | 1   | 0    | 1   | 1.403  | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| PPP1CA    | 1   | 0    | 1   | 1.403  | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| LIN7B     | 1   | 0    | 1   | 1.747  | 1   | 0.06667    | 2            | 0.31111   | 0         | 0           | 0      |                      |
| HIP1      | 1   | 0    | 1   | 1.796  | 1   | 0.06667    | 2            | 0.31111   | 0         | 0           | 0      |                      |
| HIF1A     | 1   | 0    | 1   | 3.412  | 1   | 0.15       | 6.75         | 2.11765    | 0         | 0           | 0      |                      |
| PRIM1     | 1   | 0    | 1   | 3.035  | 1   | 0.12       | 6.35         | 1.87059    | 0         | 0           | 0      |                      |
| CLSPN     | 1   | 0    | 1   | 3.082  | 1   | 0.12       | 6.35         | 1.87059    | 0         | 0           | 0      |                      |
| GINS2     | 1   | 0    | 1   | 3.034  | 1   | 0.12       | 6.35         | 1.87059    | 0         | 0           | 0      |                      |
| FBXO5     | 2   | 0.30779 | 2   | 4.677  | 1   | 0.15       | 7.91667     | 2.29412    | 0         | 0           | 1      |                      |
| ESCO2     | 1   | 0    | 1   | 3.147  | 1   | 0.12       | 6.35         | 1.87059    | 0         | 0           | 0      |                      |
| CDC6      | 6   | 0.30779 | 2   | 5.521  | 5   | 0.15       | 9.91667     | 2.43529    | 116       | 116         | 0.06667 |                      |
| ITGB1     | 1   | 0    | 1   | 1.449  | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| CD9       | 1   | 0    | 1   | 1.449  | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| RPS4X     | 7   | 0.46346 | 3   | 5.06   | 4   | 0.15       | 9            | 2.36471    | 84        | 84          | 0.5    |                      |
| TUBA8     | 2   | 0.30779 | 2   | 4.384  | 1   | 0.15       | 7.5          | 2.18824    | 0         | 0           | 1      |                      |
| RGS6      | 1   | 0    | 1   | 3.558  | 1   | 0.15       | 7            | 2.15294    | 0         | 0           | 0      |                      |
| PDL3      | 1   | 0    | 1   | 3.37   | 1   | 0.15       | 7            | 2.15294    | 0         | 0           | 0      |                      |
| TUBA4A    | 2   | 0.30779 | 2   | 4.562  | 1   | 0.15       | 7            | 2.18824    | 0         | 0           | 1      |                      |
| CCT8      | 7   | 0.30779 | 2   | 6.502  | 18  | 0.2        | 11.33333    | 2.71765    | 186       | 186         | 0.09524 |                      |
| PSMD1     | 5   | 0.30779 | 2   | 6.164  | 18  | 0.2        | 10.5         | 2.68235    | 152       | 152         | 0.2    |                      |
| BPI       | 2   | 0.30779 | 2   | 4.974  | 1   | 0.2        | 8.33333     | 2.43529    | 0         | 0           | 1      |                      |
| CHGB      | 1   | 0    | 1   | 1.43   | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| APLP2     | 1   | 0    | 1   | 1.43   | 1   | 0.06667    | 1            | 0.2       | 0         | 0           | 0      |                      |
| VAMP2     | 3   | 0    | 1   | 2.248  | 4   | 0.13333    | 3            | 0.4       | 6         | 6           | 0      |                      |
| AP1S2     | 1   | 0    | 1   | 1.747  | 1   | 0.06667    | 2            | 0.31111   | 0         | 0           | 0      |                      |