**Supplementary Table 6 The list of the top 10 candidate drugs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Term | P-value | Adjusted P-value | Odds Ratio | Combined Score | N\* |
| roscovitine TTD 00010683 | 7.73E-08 | 4.03E-06 | 44.108 | 722.318 | 6 |
| methotrexate | 4.80E-09 | 3.23E-07 | 21.202 | 406.143 | 9 |
| Vorinostat | 4.05E-08 | 2.27E-06 | 20.679 | 351.989 | 8 |
| KU-55933 CTD 00004399 | 1.11E-06 | 3.72E-05 | 23.743 | 325.611 | 6 |
| etoposide | 2.51E-07 | 1.10E-05 | 21.234 | 322.740 | 7 |
| RUTHENIUM CTD 00006710 | 4.09E-05 | 7.44E-04 | 29.252 | 295.570 | 4 |
| MALEIMIDE CTD 00001979 | 4.09E-05 | 7.44E-04 | 29.252 | 295.570 | 4 |
| Paroxetine hydrochloride | 2.14E-06 | 6.42E-05 | 20.575 | 268.581 | 6 |
| Flavopiridol hydrochloride BOSS | 3.86E-06 | 1.02E-04 | 18.153 | 226.285 | 6 |
| 5-azacytidine | 1.04E-06 | 3.54E-05 | 16.404 | 225.988 | 7 |

\* The number of genes