

Table S7. Top 10 enriched pathways in module 1 in order of combined score by WikiPathways 2019 HUMAN database

Index	Term	Genes	Combined Score
1	Regulation of sister chromatid separation at the metaphase-anaphase transition WP4240	CDC20;CENPE;PTTG1;BUB1B;BUB1; MAD2L1	2268.4
2	Retinoblastoma Gene in Cancer WP2446	TOP2A;CCNA2;CDT1;CCNB2;CCNB1; RRM2;ORC1;KIF4A;CHEK1;CDK1;TTK; CDC25A	1079.0
3	Cell Cycle WP179	PLK1;TTK;CDC6;CDC25C;CDC25A;CDC20; CCNA2;CCNB2;CCNB1;ORC1;PTTG1; CHEK1; CDK1;BUB1	996.1
4	Gastric Cancer Network 1 WP2361	TOP2A;TPX2;CENPF;ECT2;AURKA;KIF15	956.5
5	ATM Signaling Pathway WP2516	CCNB1;CHEK1;CDK1;CDC25C;CDC25A	409.4
6	Integrated Cancer Pathway WP1971	BLM;CHEK1;PLK1;CDK1;CDC25A	359.3
7	DNA Damage Response WP707	CCNB2;CCNB1;CHEK1;CDK1;CDC25C; CDC25A	299.0
8	miRNA Regulation of DNA Damage Response WP1530	CCNB2;CCNB1;CHEK1;CDK1;CDC25C; CDC25A	281.3
9	DNA IR-damage and cellular response via ATR WP4016	EXO1;CHEK1;PLK1;CDK1;FOXM1; CDC25C	237.3
10	DNA Replication WP466	CDT1;ORC1;MCM10;CDC6	229.5