

Table S6. Top 10 enriched pathways in module 1 ranked in order of combined score by KEGG 2019 HUMAN Database

index	Term	Genes	Combined score
1	Cell Cycle	PLK1;BUB1B;TTK;CDC6;CDC25C;CDC25A; CDC20;CCNA2;CCNB2;CCNB1;ORC1;PTTG1; CHEK1; CDK1;BUB1;MAD2L1	1307.85
2	Progesterone-mediated oocyte maturation	CCNA2;CCNB2;CCNB1;PLK1;CDK1;CDC25C; BUB1;CDC25A;MAD2L1;AURKA	586.43
3	Oocyte meiosis	CDC20;CCNB2;CCNB1;PTTG1;PLK1;CDK1; CDC25C;BUB1;MAD2L1;AURKA	420.88
4	p53 signaling pathway	CCNB2;CCNB1;RRM2;CHEK1;CDK1;GTSE1	275.82
5	Cellular senescence	CCNA2;CCNB2;CCNB1;CHEK1;CDK1;FOXM1; CDC25A	122.65
6	Human T-cell leukemia virus 1 infection	CDC20;CCNB2;CCNA2; BUB1;PTTG1; CHEK1; BUB1B; MAD2L1	74.52
7	Human immunodeficiency virus 1 infection	CCNB2;CCNB1; CHEK1; CDC25C;CDK1	33.52
	Pyrimidine metabolism	RRM2;TK1	30.09
8	Mismatch repair	EXO1	23.86
9	FoxO signaling pathway	CCNB2;CCNB1;PLK1	20.85