

Supplementary

Table S1 Signaling pathways were showed in PPI network

MCODE	GO	Description	Log10(P)
MCODE_1	R-HSA-174184	Cdc20:Phospho-APC/C mediated degradation of Cyclin A	-15.3
MCODE_1	R-HSA-179419	APC:Cdc20 mediated degradation of cell cycle proteins prior to satisfaction of the cell cycle checkpoint	-15.2
MCODE_1	R-HSA-176409	APC/C:Cdc20 mediated degradation of mitotic proteins	-15.1
MCODE_2	GO:0051052	Regulation of DNA metabolic process	-9.2
MCODE_2	CORUM:2224	MSH2/6-BLM-p53-RAD51 complex	-8.4
MCODE_2	R-HSA-73894	DNA Repair	-8.2
MCODE_3	GO:0019886	Antigen processing and presentation of exogenous peptide antigen via MHC class II	-8.2
MCODE_3	GO:0002495	Antigen processing and presentation of peptide antigen via MHC class II	-8.1
MCODE_3	GO:0002504	Antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	-8.1
MCODE_4	GO:0034470	ncRNA processing	-14.2
MCODE_4	GO:0034660	ncRNA metabolic process	-13.5
MCODE_4	GO:0006364	rRNA processing	-13.5
MCODE_5	R-HSA-72163	mRNA Splicing - Major Pathway	-13.3
MCODE_5	R-HSA-72172	mRNA Splicing	-13.2
MCODE_5	R-HSA-72203	Processing of Capped Intron-Containing Pre-mRNA	-12.6
MCODE_6	R-HSA-141444	Amplification of signal from unattached kinetochores via a MAD2 inhibitory signal	-7.5
MCODE_6	R-HSA-141424	Amplification of signal from the kinetochores	-7.5
MCODE_6	R-HSA-69618	Mitotic Spindle Checkpoint	-7.3
MCODE_7	GO:0006520	Cellular amino acid metabolic process	-6.1