

	Pathway Name	Pathway Type	Enrichment Score	−log10FDR
1	REACTOME DNA REPLICATION	DNA replication & repair	0.7537467	9.567670
2	WP RETINOBLASTOMA GENE IN CANCER	Cancer−specific	0.7890882	8.855744
3	REACTOME SYNTHESIS OF DNA	DNA replication & repair	0.7496165	8.828013
4	REACTOME MITOTIC G1 PHASE AND G1 S TRANSITION	Cell Cyle−related	0.6873735	7.677484
5	REACTOME G2 M CHECKPOINTS	Cell Cyle−related	0.7122282	7.291808
6	REACTOME MITOTIC SPINDLE CHECKPOINT	Cell Cyle−related	0.7277407	7.178761
7	REACTOME APC C MEDIATED DEGRADATION OF CELL CYCLE PROTEINS	Metabolic	0.7370875	6.280264
8	REACTOME DNA REPLICATION PRE INITIATION	DNA replication & repair	0.7417896	6.001359
9	KEGG DRUG METABOLISM CYTOCHROME P450	Metabolic	−0.7407569	5.349721
10	REACTOME APC C CDH1 MEDIATED DEGRADATION OF CDC20 AND OTHER APC C CDH1 TARGETED PROTEINS IN LATE MITOSIS EARLY G1	Metabolic	0.7230583	4.720247
11	REACTOME HOST INTERACTIONS OF HIV FACTORS	Signaling	0.6427130	4.720247
12	KEGG METABOLISM OF XENOBIOTICS BY CYTOCHROME P450	Metabolic	−0.7069010	4.342457
13	REACTOME DNA DOUBLE STRAND BREAK REPAIR	Metabolic	0.6364392	4.342457
14	WP METABOLIC REPROGRAMMING IN COLON CANCER	Cancer−specific	0.7989275	4.194672
15	REACTOME MITOCHONDRIAL TRANSLATION	Metabolic	0.6650564	3.908037
16	REACTOME METABOLISM OF POLYAMINES	Metabolic	0.7395497	3.594516
17	REACTOME TRNA PROCESSING IN THE NUCLEUS	DNA replication & repair	0.7400359	3.528095
18	REACTOME ECM PROTEOGLYCANS	Extracellular Matrix	−0.6800695	3.470672
19	REACTOME SUMOYLATION OF DNA REPLICATION PROTEINS	DNA replication & repair	0.7813509	3.470672
20	NABA BASEMENT MEMBRANES	Extracellular Matrix	−0.7763723	3.392350
21	REACTOME SCF SKP2 MEDIATED DEGRADATION OF P27 P21	Metabolic	0.7097036	3.274793
22	REACTOME REGULATION OF TP53 ACTIVITY THROUGH PHOSPHORYLATION	Metabolic	0.6304529	3.126751
23	REACTOME REGULATION OF MRNA STABILITY BY PROTEINS THAT BIND AU RICH ELEMENTS	DNA replication & repair	0.6298003	3.089443
24	REACTOME G1 S DNA DAMAGE CHECKPOINTS	Cell Cyle−related	0.6771099	2.951101
25	REACTOME TELOMERE MAINTENANCE	Cancer−specific	0.6923908	2.861873
26	REACTOME PEPTIDE HORMONE METABOLISM	Metabolic	−0.6252232	2.804659
27	REACTOME NUCLEAR ENVELOPE BREAKDOWN	Metabolic	0.7340431	2.801483
28	REACTOME AUF1 HNRNP D0 BINDS AND DESTABILIZES MRNA	DNA replication & repair	0.7103213	2.757939
29	REACTOME EXTENSION OF TELOMERES	Cancer−specific	0.7323002	2.701105
30	REACTOME ANTIVIRAL MECHANISM BY IFN STIMULATED GENES	DNA replication & repair	0.6297248	2.666523
31	WP DNA REPAIR PATHWAYS FULL NETWORK	DNA replication & repair	0.5847650	2.660626
32	REACTOME DISEASES ASSOCIATED WITH O GLYCOSYLATION OF PROTEINS	Metabolic	−0.6541209	2.573242
33	REACTOME GLUCOSE METABOLISM	Metabolic	0.6000504	2.552662
34	REACTOME SUMOYLATION OF DNA DAMAGE RESPONSE AND REPAIR PROTEINS	DNA replication & repair	0.6364556	2.489598
35	REACTOME DEGRADATION OF DVL	Metabolic	0.6877446	2.480979
36	REACTOME THE ROLE OF GTSE1 IN G2 M PROGRESSION AFTER G2 CHECKPOINT	Cell Cyle−related	0.6294432	2.378559
37	REACTOME NEGATIVE REGULATION OF NOTCH4 SIGNALING	Signaling	0.6768670	2.323588
38	KEGG ECM RECEPTOR INTERACTION	Signaling	−0.5869993	2.266146
39	REACTOME CELLULAR RESPONSE TO HEAT STRESS	Cell Cyle−related	0.5809482	2.247928
40	WP GLYCOLYSIS AND GLUCONEOGENESIS	Metabolic	0.7189077	2.247928
41	REACTOME DECTIN 1 MEDIATED NONCANONICAL NF KB SIGNALING	Immune reaction	0.6416723	2.231723
42	REACTOME SNRNP ASSEMBLY	Metabolic	0.6934485	2.218336
43	REACTOME RNA POLYMERASE II TRANSCRIPTION TERMINATION	DNA replication & repair	0.6730166	2.217103
44	REACTOME ASSEMBLY OF COLLAGEN FIBRILS AND OTHER MULTIMERIC STRUCTURES	Extracellular Matrix	−0.6394944	2.196765
45	REACTOME MITOTIC PROPHASE	Cell Cyle−related	0.6175087	2.190837
46	REACTOME REGULATION OF INSULIN SECRETION	Signaling	−0.6027229	2.170486
47	WP DNA IRDAMAGE AND CELLULAR RESPONSE VIA ATR	Cell Cyle−related	0.6071791	2.170486
48	WP OXIDATION BY CYTOCHROME P450	Metabolic	−0.6249351	2.145718