

Table S2: Gene Ontology pathways over-represented in the list of p53-regulated genes

Pvalue	ExpCount	Count	Term
0	6	18	apoptosis
0	6	18	programmed cell death
0	2	10	positive regulation of apoptosis
0	2	10	positive regulation of programmed cell death
0	1	9	induction of apoptosis
0	1	9	induction of programmed cell death
0	6	18	cell death
0	6	18	death
0	2	11	positive regulation of developmental process
0	8	21	cell development
0	2	10	response to DNA damage stimulus
0	4	13	regulation of apoptosis
0	4	13	regulation of programmed cell death
0	0	4	caspase activation
0	0	4	positive regulation of caspase activity
0	1	5	cell cycle arrest
0	6	15	regulation of developmental process
0.001	3	10	response to endogenous stimulus
0.001	0	4	regulation of caspase activity
0.001	0	4	regulation of peptidase activity
0.001	0	4	regulation of endopeptidase activity
0.001	8	18	positive regulation of biological process
0.001	7	17	positive regulation of cellular process
0.001	2	8	regulation of cell cycle
0.001	0	2	positive regulation of neuron apoptosis
0.002	3	10	regulation of cell proliferation
0.002	5	13	cell cycle
0.003	1	4	positive regulation of hydrolase activity
0.003	5	13	cell proliferation
0.003	1	4	apoptotic program
0.004	0	3	DNA damage response, signal transduction
0.005	12	22	cell differentiation
0.005	12	22	cellular developmental process
0.006	7	15	response to stress
0.006	0	2	cellular response to extracellular stimulus
0.006	0	3	regulation of cyclin-dependent protein kinase activity
0.006	2	6	negative regulation of cell proliferation
0.006	1	4	response to radiation
0.007	0	2	DNA damage response, signal transduction by p53 class mediator
0.007	0	1	nucleic acid-protein covalent cross-linking
0.007	0	1	RNA-protein covalent cross-linking
0.007	0	1	positive regulation of non-apoptotic programmed cell death
0.007	0	1	constitutive protein ectodomain proteolysis
0.007	0	1	regulation of helicase activity
0.007	0	1	negative regulation of helicase activity