64/516 negative regulation of biosynthetic process 81/710 negative regulation of metabolic process 18/89 obsolete gene silencing 143/1317 negative regulation of cellular process 12/46 post-transcriptional gene silencing 49/369 obsolete negative regulation of cellular biosynthetic process 63/498 obsolete negative regulation of cellular metabolic process 12/47 regulation of neural precursor cell proliferation 10/48 neural tube development 33/229 post-transcriptional regulation of gene expression 52/390 mitotic cell cycle process 61/521 cell cycle process 10/46 stem cell proliferation 90/490 post-translational protein modification 18/103 protein polyubiquitination 174/1296 protein modification process 23/62 protein autoubiquitination 52/367 regulation of cell cycle 39/187 regulation of mitotic cell cycle 7/27 negative regulation of cell cycle G1/S phase transition 10/44 regulation of cell cycle G1/S phase transition 95/845 positive regulation of metabolic process 67/529 positive regulation of biosynthetic process 57/484 positive regulation of nucleobase-containing compound metabolic process 48/371 positive regulation of protein metabolic process 17/97 positive regulation of proteolysis 60/476 regulation of intracellular signal transduction 13/71 regulation of stress-activated protein kinase signaling cascade 88/734 regulation of protein metabolic process 10/37 regulation of JUN kinase 20/104 regulation of DNA-binding transcription factor 136/1338 obsolete regulation of cellular macromolecule biosynthetic process 14/65 positive regulation of DNA-binding transcription factor 11/37 positive regulation of NF-kappaB transcription factor 31/228 negative regulation of programmed cell death 58/441 obsolete regulation of cell death 12/63 regulation of canonical NF-kappaB signal transduction 57/474 regulation of multicellular organismal development 9/36 regulation of leukocyte differentiation 52/425 regulation of cell differentiation 7/27 regulation of myeloid leukocyte differentiation 11/50 regulation of hemopoiesis 73/645 regulation of developmental process 34/219 negative regulation of developmental process 10/44 myeloid cell differentiation 7/27 phosphatidylinositol-mediated signaling 69/608 intracellular signal transduction 26/184 response to growth factor 9/40 neurotrophin signaling pathway 30/205 response to peptide 21/116 response to cytokine 14/60 cytokine-mediated signaling pathway 95/903 response to chemical 64/541 cellular response to chemical stimulus 18/75 response to virus 77/573 response to external stimulus 61/318 response to biotic stimulus 66/400 biological process involved in interspecies interaction between organisms 66/373 immune system process 20/95 immune effector process 10/45 defense response to virus 49/254 immune response 51/284 defense response 116/1036 response to stress 47/355 obsolete multi-organism process 30/204 regulation of response to external stimulus 13/61 positive regulation of response to biotic stimulus 19/88 regulation of response to biotic stimulus 36/282 regulation of response to stress 17/104 regulation of defense response 128/1084 regulation of response to stimulus 12/43 regulation of immune effector process 8/19 antigen receptor-mediated signaling pathway 60/490 positive regulation of response to stimulus 19/86 positive regulation of immune response 24/127 positive regulation of immune system process 11/38 immune response–activating cell surface receptor signaling pathway 20/84 immune response-regulating signaling pathway 35/214 regulation of immune system process 14/53 immune response-regulating cell surface receptor signaling pathway 26/134 regulation of immune response 6/14 T cell receptor signaling pathway

9/41 positive regulation of cytokine production

89/739 regulation of multicellular organismal process

7/25 cell activation involved in immune response

19/94 regulation of cytokine production

13/42 lymphocyte differentiation 5/10 mature B cell differentiation

16/83 protein dephosphorylation

9/20 B cell differentiation 18/62 leukocyte differentiation

9/34 B cell activation

23/126 cell activation
20/85 leukocyte activation
5/11 alpha-beta T cell activation
27/174 protein complex oligomerization
11/51 peptidyl-tyrosine dephosphorylation

**p < 1e-04** p < 0.05 p < 0.1