

Table S5. Annotations produced by the GO enrichment analysis tool for the downregulated genes.

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|---------------------------------------------------------------------------------|-----------------------------------------------------|---------------|---------------------|-----------------------|----------------------------|------------------------|----------------|----------------|
| Analysis Type: | PANTHER Overrepresentation Test (Released 20190711) | | | | | | | |
| Annotation Version and Release Date: | GO Ontology database Released 2019-10-08 | | | | | | | |
| Analyzed List: | upload_1 (Homo sapiens) | | | | | | | |
| Reference List: | Homo sapiens (all genes in database) | | | | | | | |
| Test Type: | FISHER | | | | | | | |
| Correction: | FDR | | | | | | | |
| GO biological process complete | Homo sapiens - REFLIST (20996) | upload_1 (96) | upload_1 (expected) | upload_1 (over/under) | upload_1 (fold Enrichment) | upload_1 (raw P-value) | upload_1 (FDR) | Supported term |
| response to interferon-alpha (GO:0035455) | 24 | 4 | 0.11 | + | 36.45 | 7.59E-06 | 3.45E-03 | Y |
| type I interferon signaling pathway (GO:0060337) | 67 | 11 | 0.31 | + | 35.91 | 5.83E-14 | 4.63E-10 | Y |
| cellular response to type I interferon (GO:0071357) | 67 | 11 | 0.31 | + | 35.91 | 5.83E-14 | 3.09E-10 | Y |
| response to type I interferon (GO:0034340) | 72 | 11 | 0.33 | + | 33.41 | 1.19E-13 | 4.72E-10 | Y |
| negative regulation of viral genome replication (GO:0045071) | 63 | 8 | 0.29 | + | 27.77 | 1.15E-09 | 1.02E-06 | Y |
| negative regulation of viral process (GO:0048525) | 104 | 10 | 0.48 | + | 21.03 | 1.09E-10 | 1.92E-07 | Y |
| negative regulation of viral life cycle (GO:1903901) | 86 | 8 | 0.39 | + | 20.34 | 1.11E-08 | 7.64E-06 | Y |
| regulation of viral genome replication (GO:0045069) | 98 | 9 | 0.45 | + | 20.09 | 1.42E-09 | 1.19E-06 | Y |
| lymphocyte chemotaxis (GO:0048247) | 49 | 4 | 0.22 | + | 17.85 | 9.95E-05 | 3.51E-02 | Y |
| defense response to virus (GO:0051607) | 200 | 15 | 0.91 | + | 16.4 | 5.15E-14 | 8.20E-10 | Y |
| interferon-gamma-mediated signaling pathway (GO:0060333) | 72 | 5 | 0.33 | + | 15.19 | 2.68E-05 | 1.09E-02 | Y |
| regulation of viral life cycle (GO:1903900) | 146 | 9 | 0.67 | + | 13.48 | 3.72E-08 | 2.37E-05 | Y |
| regulation of viral process (GO:0050792) | 207 | 12 | 0.95 | + | 12.68 | 3.37E-10 | 5.36E-07 | Y |
| response to virus (GO:0009615) | 287 | 16 | 1.31 | + | 12.19 | 5.22E-13 | 1.66E-09 | Y |
| regulation of symbiosis, encompassing mutualism through parasitism (GO:0043903) | 225 | 12 | 1.03 | + | 11.66 | 8.33E-10 | 9.46E-07 | Y |
| negative regulation of multi-organism process (GO:0043901) | 227 | 12 | 1.04 | + | 11.56 | 9.17E-10 | 9.72E-07 | N |
| response to interferon-gamma (GO:0034341) | 186 | 8 | 0.85 | + | 9.41 | 2.94E-06 | 1.56E-03 | Y |
| modification of morphology or physiology of other organism (GO:0035821) | 185 | 7 | 0.85 | + | 8.28 | 2.79E-05 | 1.11E-02 | N |
| cellular response to interferon-gamma (GO:0071346) | 164 | 6 | 0.75 | + | 8 | 1.28E-04 | 4.42E-02 | Y |
| cytokine-mediated signaling pathway (GO:0019221) | 692 | 19 | 3.16 | + | 6 | 4.14E-10 | 5.98E-07 | Y |
| regulation of multi-organism process (GO:0043900) | 779 | 19 | 3.56 | + | 5.33 | 2.79E-09 | 2.11E-06 | N |
| defense response to other organism (GO:0098542) | 952 | 23 | 4.35 | + | 5.28 | 5.20E-11 | 1.03E-07 | Y |
| innate immune response (GO:0045087) | 766 | 18 | 3.5 | + | 5.14 | 1.36E-08 | 9.01E-06 | Y |
| regulation of response to biotic stimulus (GO:0002831) | 527 | 12 | 2.41 | + | 4.98 | 6.10E-06 | 2.94E-03 | Y |
| immune effector process (GO:0002252) | 1079 | 23 | 4.93 | + | 4.66 | 5.78E-10 | 7.65E-07 | Y |
| interspecies interaction between organisms (GO:0044419) | 855 | 18 | 3.91 | + | 4.6 | 6.97E-08 | 4.26E-05 | N |
| defense response (GO:0006952) | 1342 | 27 | 6.14 | + | 4.4 | 4.53E-11 | 1.03E-07 | Y |
| symbiotic process (GO:0044403) | 783 | 15 | 3.58 | + | 4.19 | 3.08E-06 | 1.58E-03 | Y |
| response to other organism (GO:0051707) | 1327 | 25 | 6.07 | + | 4.12 | 1.08E-09 | 1.08E-06 | Y |
| response to external biotic stimulus (GO:0043207) | 1329 | 25 | 6.08 | + | 4.11 | 1.12E-09 | 1.04E-06 | Y |
| viral process (GO:0016032) | 702 | 13 | 3.21 | + | 4.05 | 2.12E-05 | 9.12E-03 | Y |
| cellular response to cytokine stimulus (GO:0071345) | 1027 | 19 | 4.7 | + | 4.05 | 2.06E-07 | 1.17E-04 | Y |
| response to biotic stimulus (GO:0009607) | 1353 | 25 | 6.19 | + | 4.04 | 1.60E-09 | 1.27E-06 | Y |
| response to cytokine (GO:0034097) | 1118 | 20 | 5.11 | + | 3.91 | 1.59E-07 | 9.35E-05 | Y |
| regulation of defense response (GO:0031347) | 769 | 13 | 3.52 | + | 3.7 | 5.35E-05 | 1.98E-02 | Y |
| immune response (GO:0006955) | 1868 | 30 | 8.54 | + | 3.51 | 6.38E-10 | 7.80E-07 | Y |

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|------------------------------------------------------|-------|----|-------|---|------|----------|----------|---|
| regulation of immune response (GO:0050776) | 1139 | 16 | 5.21 | + | 3.07 | 6.20E-05 | 2.24E-02 | Y |
| immune system process (GO:0002376) | 2806 | 39 | 12.83 | + | 3.04 | 4.07E-11 | 1.08E-07 | Y |
| regulation of immune system process (GO:0002682) | 1667 | 22 | 7.62 | + | 2.89 | 5.40E-06 | 2.68E-03 | Y |
| multi-organism process (GO:0051704) | 2832 | 36 | 12.95 | + | 2.78 | 3.82E-09 | 2.76E-06 | N |
| response to external stimulus (GO:0009605) | 2443 | 29 | 11.17 | + | 2.6 | 9.51E-07 | 5.22E-04 | N |
| cell surface receptor signaling pathway (GO:0007166) | 2417 | 27 | 11.05 | + | 2.44 | 8.01E-06 | 3.54E-03 | N |
| response to organic substance (GO:0010033) | 3019 | 30 | 13.8 | + | 2.17 | 2.65E-05 | 1.11E-02 | N |
| response to stress (GO:0006950) | 3580 | 35 | 16.37 | + | 2.14 | 7.43E-06 | 3.47E-03 | N |
| response to chemical (GO:0042221) | 4485 | 37 | 20.51 | + | 1.8 | 1.42E-04 | 4.82E-02 | N |
| biological_process (GO:0008150) | 17840 | 94 | 81.57 | + | 1.15 | 4.21E-05 | 1.63E-02 | N |
| Unclassified (UNCLASSIFIED) | 3156 | 2 | 14.43 | - | 0.14 | 4.21E-05 | 1.59E-02 | N |