Table S4. Pathway enrichment analysis on differentially expressed protein-coding genes that showed >1.5 higher expression compared to RPMI medium in response to 24 hour-*Candida* stimulation.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pathway name |  Set size |  Candidates |  p-value |  q-value |  Pathway source | -log10P |
| Chemokine receptors bind chemokines | 60 | 19 (32.8%) | 9.62E-11 | 3.04E-08 | Reactome | 10.02 |
| Immune System | 1174 | 113 (9.8%) | 2.42E-10 | 6.38E-08 | Reactome | 9.62 |
| **Cytokine Signaling in Immune system** | 376 | 50 (13.3%) | 3.19E-09 | 4.99E-07 | Reactome | 8.5 |
| Class A/1 (Rhodopsin-like receptors) | 326 | 44 (13.7%) | 1.39E-08 | 1.29E-06 | Reactome | 7.86 |
| Extracellular matrix organization | 264 | 38 (14.4%) | 3.09E-08 | 2.47E-06 | Reactome | 7.51 |
| Peptide ligand-binding receptors | 199 | 31 (15.9%) | 6.55E-08 | 4.93E-06 | Reactome | 7.18 |
| GPCR ligand binding | 454 | 51 (11.4%) | 4.05E-07 | 2.13E-05 | Reactome | 6.39 |
| Degradation of the extracellular matrix | 84 | 18 (21.4%) | 4.58E-07 | 2.33E-05 | Reactome | 6.34 |
| G alpha (i) signalling events | 243 | 33 (13.8%) | 8.08E-07 | 3.99E-05 | Reactome | 6.09 |
| HS-GAG biosynthesis | 31 | 10 (32.3%) | 3.37E-06 | 0.000137 | Reactome | 5.47 |
| Collagen degradation | 33 | 10 (30.3%) | 6.38E-06 | 0.000229 | Reactome | 5.2 |
| **Hemostasis** | 493 | 51 (10.4%) | 6.51E-06 | 0.000229 | Reactome | 5.19 |
| Non-integrin membrane-ECM interactions | 42 | 11 (26.2%) | 1.05E-05 | 0.000326 | Reactome | 4.98 |
| **Interferon Signaling** | 68 | 14 (20.6%) | 1.41E-05 | 0.000424 | Reactome | 4.85 |
| Signaling by Interleukins | 270 | 32 (11.9%) | 2.57E-05 | 0.000699 | Reactome | 4.59 |
| Innate Immune System | 709 | 64 (9.1%) | 2.90E-05 | 0.000765 | Reactome | 4.54 |
| Growth hormone receptor signaling | 19 | 7 (36.8%) | 3.92E-05 | 0.000954 | Reactome | 4.41 |
| HS-GAG degradation | 21 | 7 (33.3%) | 8.23E-05 | 0.00173 | Reactome | 4.08 |
| Cell surface interactions at the vascular wall | 101 | 16 (16.0%) | 9.35E-05 | 0.00194 | Reactome | 4.03 |
| Assembly of collagen fibrils and other multimeric structures | 44 | 10 (22.7%) | 9.92E-05 | 0.00204 | Reactome | 4 |
| Heparan sulfate/heparin (HS-GAG) metabolism | 54 | 11 (20.4%) | 0.000129 | 0.00256 | Reactome | 3.89 |
| Activation of Matrix Metalloproteinases | 30 | 8 (26.7%) | 0.00015 | 0.00286 | Reactome | 3.82 |
| Tryptophan catabolism | 11 | 5 (45.5%) | 0.000166 | 0.00306 | Reactome | 3.78 |
| ISG15 antiviral mechanism | 31 | 8 (25.8%) | 0.000192 | 0.00338 | Reactome | 3.72 |
| Antiviral mechanism by IFN-stimulated genes | 31 | 8 (25.8%) | 0.000192 | 0.00338 | Reactome | 3.72 |
| Gastrin-CREB signalling pathway via PKC and MAPK | 382 | 38 (10.0%) | 0.000222 | 0.00362 | Reactome | 3.65 |
| Collagen formation | 87 | 14 (16.1%) | 0.000238 | 0.00376 | Reactome | 3.62 |
| Syndecan interactions | 20 | 6 (30.0%) | 0.000515 | 0.00726 | Reactome | 3.29 |
| Astrocytic Glutamate-Glutamine Uptake And Metabolism | 4 | 3 (75.0%) | 0.000619 | 0.00843 | Reactome | 3.21 |
| Neurotransmitter uptake and Metabolism In Glial Cells | 4 | 3 (75.0%) | 0.000619 | 0.00843 | Reactome | 3.21 |
| Regulation of IFNG signaling | 14 | 5 (35.7%) | 0.000629 | 0.00849 | Reactome | 3.2 |
| Glycosaminoglycan metabolism | 119 | 16 (13.6%) | 0.000651 | 0.00872 | Reactome | 3.19 |
| SLC-mediated transmembrane transport | 263 | 27 (10.3%) | 0.00108 | 0.0133 | Reactome | 2.97 |
| Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell | 146 | 17 (12.5%) | 0.00114 | 0.0139 | Reactome | 2.94 |
| Laminin interactions | 23 | 6 (26.1%) | 0.00117 | 0.0141 | Reactome | 2.93 |
| Binding and Uptake of Ligands by Scavenger Receptors | 40 | 8 (20.0%) | 0.00122 | 0.0146 | Reactome | 2.91 |
| Dectin-2 family | 10 | 4 (40.0%) | 0.00141 | 0.0164 | Reactome | 2.85 |
| **Platelet activation, signaling and aggregation** | 229 | 24 (10.5%) | 0.0016 | 0.0181 | Reactome | 2.8 |
| Transport of inorganic cations/anions and amino acids/oligopeptides | 95 | 13 (13.7%) | 0.00187 | 0.021 | Reactome | 2.73 |
| Axon guidance | 459 | 40 (8.8%) | 0.00202 | 0.0219 | Reactome | 2.69 |
| Signaling by NOTCH3 | 11 | 4 (36.4%) | 0.00212 | 0.0228 | Reactome | 2.67 |
| Regulation of IFNA signaling | 26 | 6 (23.1%) | 0.00231 | 0.0244 | Reactome | 2.64 |
| A tetrasaccharide linker sequence is required for GAG synthesis | 26 | 6 (23.1%) | 0.00231 | 0.0244 | Reactome | 2.64 |
| VEGFR2 mediated cell proliferation | 198 | 21 (10.7%) | 0.00248 | 0.026 | Reactome | 2.61 |
| MAPK family signaling cascades | 225 | 23 (10.3%) | 0.00258 | 0.0266 | Reactome | 2.59 |
| Interferon alpha/beta signaling | 27 | 6 (22.2%) | 0.00284 | 0.0291 | Reactome | 2.55 |
| Scavenging by Class A Receptors | 19 | 5 (26.3%) | 0.00291 | 0.0295 | Reactome | 2.54 |
| Interferon gamma signaling | 19 | 5 (26.3%) | 0.00291 | 0.0295 | Reactome | 2.54 |
| MAPK1/MAPK3 signaling | 191 | 20 (10.5%) | 0.0036 | 0.0353 | Reactome | 2.44 |
| Signaling by Leptin | 193 | 20 (10.4%) | 0.00405 | 0.0389 | Reactome | 2.39 |
| **Dissolution of Fibrin Clot** | 13 | 4 (30.8%) | 0.00422 | 0.039 | Reactome | 2.37 |
| Negative regulators of RIG-I/MDA5 signaling | 21 | 5 (23.8%) | 0.00465 | 0.0422 | Reactome | 2.33 |
| Activation of C3 and C5 | 7 | 3 (42.9%) | 0.00479 | 0.0426 | Reactome | 2.32 |
| Anchoring fibril formation | 7 | 3 (42.9%) | 0.00479 | 0.0426 | Reactome | 2.32 |
| Signaling by SCF-KIT | 264 | 25 (9.5%) | 0.0048 | 0.0426 | Reactome | 2.32 |
| NCAM signaling for neurite out-growth | 223 | 22 (9.9%) | 0.00485 | 0.0428 | Reactome | 2.31 |
| Chondroitin sulfate/dermatan sulfate metabolism | 51 | 8 (16.0%) | 0.00526 | 0.0455 | Reactome | 2.28 |
| Interleukin-3, 5 and GM-CSF signaling | 211 | 21 (10.0%) | 0.00527 | 0.0455 | Reactome | 2.28 |
| RAF/MAP kinase cascade | 185 | 19 (10.3%) | 0.00551 | 0.0456 | Reactome | 2.26 |
| SHC1 events in EGFR signaling | 185 | 19 (10.3%) | 0.00551 | 0.0456 | Reactome | 2.26 |
| SOS-mediated signalling | 185 | 19 (10.3%) | 0.00551 | 0.0456 | Reactome | 2.26 |
| GRB2 events in EGFR signaling | 185 | 19 (10.3%) | 0.00551 | 0.0456 | Reactome | 2.26 |
| SHC1 events in ERBB2 signaling | 185 | 19 (10.3%) | 0.00551 | 0.0456 | Reactome | 2.26 |
| SHC1 events in ERBB4 signaling | 185 | 19 (10.3%) | 0.00551 | 0.0456 | Reactome | 2.26 |
| GRB2 events in ERBB2 signaling | 185 | 19 (10.3%) | 0.00551 | 0.0456 | Reactome | 2.26 |
| Receptor-ligand binding initiates the second proteolytic cleavage of Notch receptor | 14 | 4 (28.6%) | 0.00565 | 0.0463 | Reactome | 2.25 |
| FRS-mediated FGFR2 signaling | 186 | 19 (10.3%) | 0.00584 | 0.0469 | Reactome | 2.23 |
| FRS-mediated FGFR1 signaling | 186 | 19 (10.3%) | 0.00584 | 0.0469 | Reactome | 2.23 |
| FRS-mediated FGFR3 signaling | 186 | 19 (10.3%) | 0.00584 | 0.0469 | Reactome | 2.23 |
| FRS-mediated FGFR4 signaling | 186 | 19 (10.3%) | 0.00584 | 0.0469 | Reactome | 2.23 |
| Interleukin-2 signaling | 202 | 20 (10.0%) | 0.00674 | 0.0533 | Reactome | 2.17 |
| Signalling to p38 via RIT and RIN | 189 | 19 (10.1%) | 0.00693 | 0.0536 | Reactome | 2.16 |
| ARMS-mediated activation | 189 | 19 (10.1%) | 0.00693 | 0.0536 | Reactome | 2.16 |
| Adaptive Immune System | 612 | 47 (7.9%) | 0.00702 | 0.0538 | Reactome | 2.15 |
| RAF-independent MAPK1/3 activation | 23 | 5 (21.7%) | 0.00703 | 0.0538 | Reactome | 2.15 |
| Retinoid metabolism and transport | 42 | 7 (16.7%) | 0.00705 | 0.0538 | Reactome | 2.15 |
| Frs2-mediated activation | 190 | 19 (10.1%) | 0.00732 | 0.0552 | Reactome | 2.14 |
| **RIG-I/MDA5 mediated induction of IFN-alpha/beta pathways** | 53 | 8 (15.1%) | 0.00753 | 0.0556 | Reactome | 2.12 |
| Prolonged ERK activation events | 192 | 19 (9.9%) | 0.00817 | 0.06 | Reactome | 2.09 |
| GPVI-mediated activation cascade | 54 | 8 (14.8%) | 0.00843 | 0.0611 | Reactome | 2.07 |
| Interconversion of polyamines | 3 | 2 (66.7%) | 0.00858 | 0.0616 | Reactome | 2.07 |
| Hydroxycarboxylic acid-binding receptors | 3 | 2 (66.7%) | 0.00858 | 0.0616 | Reactome | 2.07 |
| Signalling to RAS | 194 | 19 (9.8%) | 0.00909 | 0.065 | Reactome | 2.04 |
| Integrin cell surface interactions | 67 | 9 (13.6%) | 0.0092 | 0.0655 | Reactome | 2.04 |
| Interleukin receptor SHC signaling | 195 | 19 (9.8%) | 0.00958 | 0.0679 | Reactome | 2.02 |