| **Comparison** | **GO term** | **Description** | **Set Size** | **Enrich Score** | **p.adjust** |
| --- | --- | --- | --- | --- | --- |
| Diet (Protein-Lipid) | GO:0006955 | immune response | 32 | 0.635 | 2.8e-02 |
| GO:0002376 | immune system process | 37 | 0.570 | 5.2e-02 |
| GO:0009605 | response to external stimulus | 31 | 0.592 | 1.3e-01 |
| GO:0006950 | response to stress | 95 | 0.390 | 3.6e-01 |
| GO:0009607 | response to biotic stimulus | 12 | 0.695 | 3.6e-01 |
| GO:0043207 | response to external biotic stimulus | 12 | 0.695 | 3.6e-01 |
| GO:0044419 | biological process involved in interspecies interaction between organisms | 12 | 0.695 | 3.6e-01 |
| GO:0051707 | response to other organism | 12 | 0.695 | 3.6e-01 |
| GO:0098542 | defense response to other organism | 12 | 0.695 | 3.6e-01 |
| GO:0006952 | defense response | 23 | 0.553 | 4.5e-01 |
| GO:0040011 | locomotion | 15 | 0.630 | 4.5e-01 |
| GO:0044242 | cellular lipid catabolic process | 16 | -0.617 | 4.5e-01 |
| GO:0006259 | DNA metabolic process | 70 | 0.392 | 4.5e-01 |
| GO:0006139 | nucleobase-containing compound metabolic process | 348 | 0.258 | 4.5e-01 |
| GO:0006935 | chemotaxis | 14 | 0.620 | 4.5e-01 |
| GO:0042330 | taxis | 14 | 0.620 | 4.5e-01 |
| GO:0042981 | regulation of apoptotic process | 26 | 0.511 | 4.5e-01 |
| GO:0043067 | regulation of programmed cell death | 26 | 0.511 | 4.5e-01 |
| GO:0090407 | organophosphate biosynthetic process | 46 | 0.414 | 5.2e-01 |
| GO:1901360 | organic cyclic compound metabolic process | 376 | 0.255 | 6.0e-01 |
| GO:0042221 | response to chemical | 35 | 0.436 | 6.2e-01 |
| GO:0080134 | regulation of response to stress | 17 | 0.540 | 6.4e-01 |
| GO:0043414 | macromolecule methylation | 17 | 0.540 | 6.4e-01 |
| GO:0046483 | heterocycle metabolic process | 365 | 0.246 | 6.8e-01 |
| GO:0002682 | regulation of immune system process | 13 | 0.571 | 7.0e-01 |
| GO:0006725 | cellular aromatic compound metabolic process | 368 | 0.246 | 7.0e-01 |
| GO:0032259 | methylation | 31 | 0.459 | 7.0e-01 |
| GO:0050896 | response to stimulus | 341 | 0.245 | 7.0e-01 |
| GO:0007167 | enzyme-linked receptor protein signaling pathway | 11 | -0.583 | 7.0e-01 |
| GO:0016042 | lipid catabolic process | 30 | -0.427 | 7.0e-01 |
| Eye Score | GO:0005840 | ribosome | 40 | 0.670 | 6.3e-08 |
| GO:0003735 | structural constituent of ribosome | 35 | 0.691 | 2.8e-07 |
| GO:0006518 | peptide metabolic process | 58 | 0.524 | 1.8e-05 |
| GO:0005198 | structural molecule activity | 66 | 0.520 | 1.8e-05 |
| GO:0043043 | peptide biosynthetic process | 53 | 0.537 | 2.0e-05 |
| GO:0043604 | amide biosynthetic process | 60 | 0.516 | 3.9e-05 |
| GO:0043603 | amide metabolic process | 72 | 0.477 | 3.9e-05 |
| GO:0006412 | translation | 52 | 0.529 | 5.2e-05 |
| GO:0030163 | protein catabolic process | 42 | -0.540 | 3.4e-04 |
| GO:0006508 | proteolysis | 101 | -0.398 | 3.8e-04 |
| GO:0009057 | macromolecule catabolic process | 55 | -0.487 | 5.0e-04 |
| GO:1901566 | organonitrogen compound biosynthetic process | 135 | 0.363 | 5.4e-04 |
| GO:0051603 | proteolysis involved in protein catabolic process | 40 | -0.543 | 5.6e-04 |
| GO:0006511 | ubiquitin-dependent protein catabolic process | 36 | -0.548 | 1.1e-03 |
| GO:0019941 | modification-dependent protein catabolic process | 36 | -0.548 | 1.1e-03 |
| GO:0016755 | aminoacyltransferase activity | 40 | -0.526 | 1.2e-03 |
| GO:0019787 | ubiquitin-like protein transferase activity | 36 | -0.535 | 1.9e-03 |
| GO:0004842 | ubiquitin-protein transferase activity | 35 | -0.536 | 2.1e-03 |
| GO:0043228 | non-membrane-bounded organelle | 268 | 0.276 | 2.1e-03 |
| GO:0043232 | intracellular non-membrane-bounded organelle | 268 | 0.276 | 2.1e-03 |
| GO:0043632 | modification-dependent macromolecule catabolic process | 37 | -0.525 | 2.2e-03 |
| GO:0070647 | protein modification by small protein conjugation or removal | 72 | -0.405 | 3.2e-03 |
| GO:1990904 | ribonucleoprotein complex | 83 | 0.382 | 4.2e-03 |
| GO:0010498 | proteasomal protein catabolic process | 14 | -0.702 | 4.3e-03 |
| GO:0019222 | regulation of metabolic process | 145 | -0.304 | 5.1e-03 |
| GO:0009889 | regulation of biosynthetic process | 112 | -0.342 | 5.1e-03 |
| GO:0010468 | regulation of gene expression | 112 | -0.342 | 5.1e-03 |
| GO:0010556 | regulation of macromolecule biosynthetic process | 112 | -0.342 | 5.1e-03 |
| GO:0031326 | regulation of cellular biosynthetic process | 112 | -0.342 | 5.1e-03 |
| GO:0009056 | catabolic process | 130 | -0.322 | 5.2e-03 |
| Infection (all) | GO:0050896 | response to stimulus | 341 | 0.374 | 4.0e-06 |
| GO:0006955 | immune response | 32 | 0.677 | 7.1e-05 |
| GO:0002376 | immune system process | 37 | 0.655 | 7.4e-05 |
| GO:0006412 | translation | 58 | -0.559 | 8.9e-05 |
| GO:0043043 | peptide biosynthetic process | 59 | -0.557 | 1.3e-04 |
| GO:0006518 | peptide metabolic process | 64 | -0.521 | 2.9e-04 |
| GO:0006952 | defense response | 23 | 0.704 | 3.1e-04 |
| GO:0007165 | signal transduction | 229 | 0.360 | 5.6e-04 |
| GO:0023052 | signaling | 233 | 0.364 | 5.6e-04 |
| GO:0051716 | cellular response to stimulus | 283 | 0.344 | 5.8e-04 |
| GO:0009605 | response to external stimulus | 31 | 0.636 | 6.3e-04 |
| GO:0007154 | cell communication | 235 | 0.355 | 7.7e-04 |
| GO:0009607 | response to biotic stimulus | 12 | 0.797 | 1.2e-03 |
| GO:0043207 | response to external biotic stimulus | 12 | 0.797 | 1.2e-03 |
| GO:0044419 | biological process involved in interspecies interaction between organisms | 12 | 0.797 | 1.2e-03 |
| GO:0051707 | response to other organism | 12 | 0.797 | 1.2e-03 |
| GO:0098542 | defense response to other organism | 12 | 0.797 | 1.2e-03 |
| GO:0043604 | amide biosynthetic process | 66 | -0.497 | 1.5e-03 |
| GO:0043603 | amide metabolic process | 78 | -0.434 | 1.5e-03 |
| GO:0006629 | lipid metabolic process | 108 | 0.414 | 3.1e-03 |
| GO:0006954 | inflammatory response | 13 | 0.750 | 3.1e-03 |
| GO:0065007 | biological regulation | 442 | 0.290 | 3.7e-03 |
| GO:0006950 | response to stress | 95 | 0.423 | 4.1e-03 |
| GO:0044281 | small molecule metabolic process | 141 | 0.357 | 1.1e-02 |
| GO:1901135 | carbohydrate derivative metabolic process | 81 | 0.427 | 1.1e-02 |
| GO:0050789 | regulation of biological process | 429 | 0.282 | 1.4e-02 |
| GO:0050794 | regulation of cellular process | 410 | 0.278 | 2.4e-02 |
| GO:0002682 | regulation of immune system process | 13 | 0.685 | 2.9e-02 |
| GO:0048583 | regulation of response to stimulus | 62 | 0.421 | 3.4e-02 |
| GO:0006793 | phosphorus metabolic process | 246 | 0.300 | 3.6e-02 |
| Infection (lipid) | GO:0002376 | immune system process | 37 | 0.666 | 9.4e-05 |
| GO:0006955 | immune response | 32 | 0.703 | 9.4e-05 |
| GO:0006952 | defense response | 23 | 0.698 | 1.3e-03 |
| GO:0009607 | response to biotic stimulus | 12 | 0.780 | 7.0e-03 |
| GO:0043207 | response to external biotic stimulus | 12 | 0.780 | 7.0e-03 |
| GO:0044419 | biological process involved in interspecies interaction between organisms | 12 | 0.780 | 7.0e-03 |
| GO:0051707 | response to other organism | 12 | 0.780 | 7.0e-03 |
| GO:0098542 | defense response to other organism | 12 | 0.780 | 7.0e-03 |
| GO:0050896 | response to stimulus | 341 | 0.299 | 8.6e-03 |
| GO:0044281 | small molecule metabolic process | 141 | 0.361 | 2.0e-02 |
| GO:0006950 | response to stress | 95 | 0.387 | 4.4e-02 |
| GO:0009605 | response to external stimulus | 31 | 0.553 | 5.5e-02 |
| GO:0043043 | peptide biosynthetic process | 59 | -0.449 | 5.5e-02 |
| GO:0006954 | inflammatory response | 13 | 0.687 | 5.5e-02 |
| GO:0043604 | amide biosynthetic process | 66 | -0.423 | 7.4e-02 |
| GO:0019637 | organophosphate metabolic process | 72 | 0.400 | 7.4e-02 |
| GO:0006082 | organic acid metabolic process | 77 | 0.380 | 7.4e-02 |
| GO:0019752 | carboxylic acid metabolic process | 77 | 0.380 | 7.4e-02 |
| GO:0043436 | oxoacid metabolic process | 77 | 0.380 | 7.4e-02 |
| GO:0006412 | translation | 58 | -0.444 | 7.4e-02 |
| GO:0090407 | organophosphate biosynthetic process | 46 | 0.452 | 7.4e-02 |
| GO:1903047 | mitotic cell cycle process | 17 | -0.603 | 1.1e-01 |
| GO:0002682 | regulation of immune system process | 13 | 0.644 | 1.2e-01 |
| GO:0044282 | small molecule catabolic process | 23 | 0.543 | 1.3e-01 |
| GO:0048584 | positive regulation of response to stimulus | 22 | 0.552 | 1.4e-01 |
| GO:1901135 | carbohydrate derivative metabolic process | 81 | 0.374 | 1.4e-01 |
| GO:0051716 | cellular response to stimulus | 283 | 0.266 | 1.5e-01 |
| GO:0065007 | biological regulation | 442 | 0.240 | 1.6e-01 |
| GO:0043087 | regulation of GTPase activity | 12 | 0.631 | 1.8e-01 |
| GO:0016054 | organic acid catabolic process | 17 | 0.560 | 1.9e-01 |
| Infection (protein) | GO:0006518 | peptide metabolic process | 64 | -0.550 | 1.6e-05 |
| GO:0006412 | translation | 58 | -0.556 | 2.2e-05 |
| GO:0043043 | peptide biosynthetic process | 59 | -0.548 | 3.7e-05 |
| GO:0010467 | gene expression | 317 | -0.287 | 1.4e-03 |
| GO:0043603 | amide metabolic process | 78 | -0.438 | 1.8e-03 |
| GO:0043604 | amide biosynthetic process | 66 | -0.460 | 2.0e-03 |
| GO:0050896 | response to stimulus | 341 | 0.328 | 2.5e-03 |
| GO:0006811 | monoatomic ion transport | 21 | -0.656 | 3.2e-03 |
| GO:0006396 | RNA processing | 105 | -0.372 | 5.0e-03 |
| GO:0023052 | signaling | 233 | 0.342 | 9.2e-03 |
| GO:0007154 | cell communication | 235 | 0.334 | 1.2e-02 |
| GO:0051716 | cellular response to stimulus | 283 | 0.322 | 1.2e-02 |
| GO:0007165 | signal transduction | 229 | 0.338 | 1.2e-02 |
| GO:0006629 | lipid metabolic process | 108 | 0.397 | 2.1e-02 |
| GO:0000375 | RNA splicing, via transesterification reactions | 32 | -0.519 | 2.1e-02 |
| GO:0000377 | RNA splicing, via transesterification reactions with bulged adenosine as nucleophile | 32 | -0.519 | 2.1e-02 |
| GO:0000398 | mRNA splicing, via spliceosome | 32 | -0.519 | 2.1e-02 |
| GO:0034470 | ncRNA processing | 43 | -0.458 | 2.3e-02 |
| GO:0002376 | immune system process | 37 | 0.525 | 2.4e-02 |
| GO:0022613 | ribonucleoprotein complex biogenesis | 42 | -0.456 | 3.0e-02 |
| GO:0034220 | monoatomic ion transmembrane transport | 13 | -0.676 | 3.2e-02 |
| GO:0051603 | proteolysis involved in protein catabolic process | 41 | -0.443 | 4.0e-02 |
| GO:0034660 | ncRNA metabolic process | 55 | -0.419 | 4.0e-02 |
| GO:0006954 | inflammatory response | 13 | 0.669 | 4.2e-02 |
| GO:0008380 | RNA splicing | 44 | -0.438 | 4.2e-02 |
| GO:0006812 | monoatomic cation transport | 13 | -0.653 | 5.4e-02 |
| GO:0030001 | metal ion transport | 13 | -0.653 | 5.4e-02 |
| GO:0022900 | electron transport chain | 15 | -0.618 | 6.1e-02 |
| GO:0006955 | immune response | 32 | 0.519 | 6.1e-02 |
| GO:0016042 | lipid catabolic process | 30 | 0.525 | 6.1e-02 |
| MG-Diet Interaction | GO:1903047 | mitotic cell cycle process | 17 | 0.664 | 9.8e-02 |
| GO:0051603 | proteolysis involved in protein catabolic process | 41 | -0.486 | 9.8e-02 |
| GO:0006955 | immune response | 32 | -0.515 | 9.8e-02 |
| GO:1901565 | organonitrogen compound catabolic process | 61 | -0.406 | 9.8e-02 |
| GO:0006952 | defense response | 23 | -0.574 | 9.8e-02 |
| GO:0009607 | response to biotic stimulus | 12 | -0.690 | 9.8e-02 |
| GO:0043207 | response to external biotic stimulus | 12 | -0.690 | 9.8e-02 |
| GO:0044419 | biological process involved in interspecies interaction between organisms | 12 | -0.690 | 9.8e-02 |
| GO:0051707 | response to other organism | 12 | -0.690 | 9.8e-02 |
| GO:0098542 | defense response to other organism | 12 | -0.690 | 9.8e-02 |
| GO:0006511 | ubiquitin-dependent protein catabolic process | 37 | -0.487 | 9.8e-02 |
| GO:0019941 | modification-dependent protein catabolic process | 37 | -0.487 | 9.8e-02 |
| GO:0044282 | small molecule catabolic process | 23 | -0.563 | 1.1e-01 |
| GO:0000278 | mitotic cell cycle | 20 | 0.617 | 1.1e-01 |
| GO:0030163 | protein catabolic process | 43 | -0.454 | 1.2e-01 |
| GO:1901575 | organic substance catabolic process | 115 | -0.321 | 1.4e-01 |
| GO:0002376 | immune system process | 37 | -0.465 | 1.4e-01 |
| GO:0009056 | catabolic process | 136 | -0.306 | 1.4e-01 |
| GO:0009260 | ribonucleotide biosynthetic process | 15 | -0.626 | 1.4e-01 |
| GO:0046390 | ribose phosphate biosynthetic process | 15 | -0.626 | 1.4e-01 |
| GO:0090407 | organophosphate biosynthetic process | 46 | -0.422 | 1.5e-01 |
| GO:0022402 | cell cycle process | 34 | 0.477 | 1.6e-01 |
| GO:0051668 | localization within membrane | 12 | -0.637 | 1.7e-01 |
| GO:0043632 | modification-dependent macromolecule catabolic process | 38 | -0.448 | 1.8e-01 |
| GO:0009605 | response to external stimulus | 31 | -0.471 | 1.9e-01 |
| GO:0010498 | proteasomal protein catabolic process | 14 | -0.599 | 2.0e-01 |
| GO:0034220 | monoatomic ion transmembrane transport | 13 | -0.621 | 2.3e-01 |
| GO:0051604 | protein maturation | 30 | -0.467 | 2.4e-01 |
| GO:0070647 | protein modification by small protein conjugation or removal | 75 | -0.358 | 2.4e-01 |
| GO:0043687 | post-translational protein modification | 84 | -0.334 | 2.9e-01 |
| Pathogen Load | GO:0006412 | translation | 58 | -0.667 | 1.3e-07 |
| GO:0043043 | peptide biosynthetic process | 59 | -0.660 | 1.8e-07 |
| GO:0043604 | amide biosynthetic process | 66 | -0.633 | 1.8e-07 |
| GO:0006518 | peptide metabolic process | 64 | -0.626 | 2.7e-07 |
| GO:0043603 | amide metabolic process | 78 | -0.550 | 5.1e-05 |
| GO:0010467 | gene expression | 317 | -0.323 | 4.5e-03 |
| GO:0034641 | cellular nitrogen compound metabolic process | 418 | -0.296 | 7.0e-03 |
| GO:0044271 | cellular nitrogen compound biosynthetic process | 216 | -0.351 | 1.1e-02 |
| GO:1901566 | organonitrogen compound biosynthetic process | 144 | -0.377 | 2.8e-02 |
| GO:0009059 | macromolecule biosynthetic process | 361 | -0.283 | 1.5e-01 |
| GO:0006952 | defense response | 23 | 0.536 | 1.7e-01 |
| GO:0005975 | carbohydrate metabolic process | 44 | 0.409 | 1.7e-01 |
| GO:0044249 | cellular biosynthetic process | 442 | -0.262 | 1.7e-01 |
| GO:1901576 | organic substance biosynthetic process | 456 | -0.259 | 1.7e-01 |
| GO:0009607 | response to biotic stimulus | 12 | 0.639 | 1.7e-01 |
| GO:0043207 | response to external biotic stimulus | 12 | 0.639 | 1.7e-01 |
| GO:0044419 | biological process involved in interspecies interaction between organisms | 12 | 0.639 | 1.7e-01 |
| GO:0051707 | response to other organism | 12 | 0.639 | 1.7e-01 |
| GO:0098542 | defense response to other organism | 12 | 0.639 | 1.7e-01 |
| GO:0042592 | homeostatic process | 12 | -0.662 | 1.7e-01 |
| GO:0009058 | biosynthetic process | 464 | -0.255 | 2.0e-01 |
| GO:0007049 | cell cycle | 75 | -0.385 | 2.6e-01 |
| GO:0051345 | positive regulation of hydrolase activity | 12 | 0.604 | 3.0e-01 |
| GO:0006954 | inflammatory response | 13 | 0.560 | 3.7e-01 |
| GO:0007154 | cell communication | 235 | 0.240 | 3.7e-01 |
| GO:0007165 | signal transduction | 229 | 0.240 | 3.8e-01 |
| GO:0048856 | anatomical structure development | 42 | -0.422 | 3.8e-01 |
| GO:0019538 | protein metabolic process | 454 | -0.247 | 3.9e-01 |
| GO:0023052 | signaling | 233 | 0.241 | 3.9e-01 |
| GO:0016071 | mRNA metabolic process | 64 | -0.369 | 4.2e-01 |