

GeDiPNet Cluster 611 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax\_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build\_cluster\_go\_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:23:14. · Rows: 15 · Generated: 2026-10-19 23:19:02

| GO Term                                                | GO ID      | Overlap Genes | Overlap Gene Names | Term Gene Count | Cluster Gene Count | Fold Enrichment | P-value  | FDR Q-value |
|--------------------------------------------------------|------------|---------------|--------------------|-----------------|--------------------|-----------------|----------|-------------|
| positive regulation of multicellular organism growth   | GO:0040018 | 3             | GHR, GHSR, STAT5B  | 34              | 4                  | 412.21          | 2.198e-8 | 3.498e-6    |
| cellular response to hormone stimulus                  | GO:0032870 | 3             | GHR, GHSR, STAT5B  | 48              | 4                  | 291.98          | 6.351e-8 | 8.688e-6    |
| response to estradiol                                  | GO:0032355 | 3             | GHR, GHSR, STAT5B  | 84              | 4                  | 166.85          | 3.494e-7 | 3.606e-5    |
| taurine metabolic process                              | GO:0019530 | 2             | GHR, STAT5B        | 6               | 4                  | 1557.25         | 5.153e-7 | 4.996e-5    |
| response to growth hormone                             | GO:0060416 | 2             | GHR, GHSR          | 14              | 4                  | 667.39          | 3.125e-6 | 2.167e-4    |
| growth hormone receptor signaling pathway via JAK-STAT | GO:0060397 | 2             | GHR, STAT5B        | 15              | 4                  | 622.90          | 3.605e-6 | 2.435e-4    |
| regulation of multicellular organism growth            | GO:0040014 | 2             | GHR, STAT5B        | 26              | 4                  | 359.37          | 1.115e-5 | 5.927e-4    |
| response to food                                       | GO:0032094 | 2             | GHR, GHSR          | 33              | 4                  | 283.14          | 1.810e-5 | 8.586e-4    |
| insulin-like growth factor receptor signaling pathway  | GO:0048009 | 2             | GHR, GHSR          | 33              | 4                  | 283.14          | 1.810e-5 | 8.586e-4    |
| hormone-mediated signaling pathway                     | GO:0009755 | 2             | GHR, GHSR          | 42              | 4                  | 222.46          | 2.950e-5 | 1.235e-3    |
| response to peptide hormone                            | GO:0043434 | 2             | GHR, STAT5B        | 50              | 4                  | 186.87          | 4.195e-5 | 1.614e-3    |
| response to hormone                                    | GO:0009725 | 2             | GHR, GHSR          | 55              | 4                  | 169.88          | 5.084e-5 | 1.872e-3    |
| cell surface receptor signaling pathway via JAK-STAT   | GO:0007259 | 2             | GHR, STAT5B        | 67              | 4                  | 139.46          | 7.563e-5 | 2.514e-3    |
| female pregnancy                                       | GO:0007565 | 2             | GHSR, STAT5B       | 80              | 4                  | 116.79          | 1.080e-4 | 3.269e-3    |
| cellular response to insulin stimulus                  | GO:0032869 | 2             | GHR, GHSR          | 102             | 4                  | 91.60           | 1.758e-4 | 4.631e-3    |