

## GeDiPNet Cluster 313 -- 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: 2026-10-08 03:23:04. · Rows: 15 · Generated: 2026-10-07 21:57:53

| 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 interleukin-16 production                                                            | GO:0032739 | 1             | IL17A              | 1               | 7                  | 2669.57         | 3.746e-4 | 8.016e-3    |
| regulation of systemic arterial blood pressure by norepinephrine-epinephrine                                | GO:0001993 | 1             | ADRB2              | 1               | 7                  | 2669.57         | 3.746e-4 | 8.016e-3    |
| positive regulation of mini excitatory postsynaptic potential                                               | GO:0061885 | 1             | ADRB2              | 1               | 7                  | 2669.57         | 3.746e-4 | 8.016e-3    |
| positive regulation of interleukin-6 production                                                             | GO:0032755 | 2             | IL1B, IL17A        | 103             | 7                  | 51.84           | 6.205e-4 | 1.134e-2    |
| negative regulation of gap junction assembly                                                                | GO:1903597 | 1             | IL1B               | 2               | 7                  | 1334.79         | 7.491e-4 | 1.282e-2    |
| positive regulation of antimicrobial peptide production                                                     | GO:0002225 | 1             | IL17A              | 2               | 7                  | 1334.79         | 7.491e-4 | 1.282e-2    |
| granulocyte migration                                                                                       | GO:0097530 | 1             | IL17A              | 2               | 7                  | 1334.79         | 7.491e-4 | 1.282e-2    |
| positive regulation of tumor necrosis factor superfamily cytokine production                                | GO:1903557 | 1             | IL17A              | 2               | 7                  | 1334.79         | 7.491e-4 | 1.282e-2    |
| positive regulation of complement activation                                                                | GO:0045917 | 1             | IL1B               | 2               | 7                  | 1334.79         | 7.491e-4 | 1.282e-2    |
| regulation of nitric-oxide synthase activity                                                                | GO:0050999 | 1             | IL1B               | 2               | 7                  | 1334.79         | 7.491e-4 | 1.282e-2    |
| positive regulation of RNA biosynthetic process                                                             | GO:1902680 | 1             | IL1B               | 2               | 7                  | 1334.79         | 7.491e-4 | 1.282e-2    |
| defense response to Gram-positive bacterium                                                                 | GO:0050830 | 2             | IL1B, IL17A        | 135             | 7                  | 39.55           | 1.062e-3 | 1.602e-2    |
| norepinephrine-epinephrine-mediated vasodilation involved in regulation of systemic arterial blood pressure | GO:0002025 | 1             | ADRB2              | 3               | 7                  | 889.86          | 1.123e-3 | 1.656e-2    |
| monocyte aggregation                                                                                        | GO:0070487 | 1             | IL1B               | 3               | 7                  | 889.86          | 1.123e-3 | 1.656e-2    |
| fever generation                                                                                            | GO:0001660 | 1             | IL1B               | 3               | 7                  | 889.86          | 1.123e-3 | 1.656e-2    |