

## GeDiPNet Cluster 361 -- 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: 2026-10-08 14:41:24

| GO Term                                                                                 | GO ID      | Overlap Genes | Overlap Gene Names | Term Gene Count | Cluster Gene Count | Fold Enrichment | P-value  | FDR Q-value |
|-----------------------------------------------------------------------------------------|------------|---------------|--------------------|-----------------|--------------------|-----------------|----------|-------------|
| DNA damage checkpoint signaling                                                         | GO:0000077 | 2             | ATRIP, TREX1       | 47              | 8                  | 99.40           | 1.717e-4 | 4.624e-3    |
| positive regulation of smooth muscle cell proliferation                                 | GO:0048661 | 2             | NOTCH3, PDGFRB     | 52              | 8                  | 89.84           | 2.104e-4 | 5.335e-3    |
| immune response in brain or nervous system                                              | GO:0002383 | 1             | TREX1              | 1               | 8                  | 2335.88         | 4.281e-4 | 8.766e-3    |
| immune complex formation                                                                | GO:0097281 | 1             | TREX1              | 1               | 8                  | 2335.88         | 4.281e-4 | 8.766e-3    |
| cell migration involved in coronary angiogenesis                                        | GO:0060981 | 1             | PDGFRB             | 1               | 8                  | 2335.88         | 4.281e-4 | 8.766e-3    |
| metanephric glomerular mesangial cell proliferation involved in metanephros development | GO:0072262 | 1             | PDGFRB             | 1               | 8                  | 2335.88         | 4.281e-4 | 8.766e-3    |
| organ or tissue specific immune response                                                | GO:0002251 | 1             | TREX1              | 2               | 8                  | 1167.94         | 8.560e-4 | 1.393e-2    |
| activation of immune response                                                           | GO:0002253 | 1             | TREX1              | 2               | 8                  | 1167.94         | 8.560e-4 | 1.393e-2    |
| DNA modification                                                                        | GO:0006304 | 1             | TREX1              | 2               | 8                  | 1167.94         | 8.560e-4 | 1.393e-2    |
| cellular response to type I interferon                                                  | GO:0071357 | 1             | TREX1              | 2               | 8                  | 1167.94         | 8.560e-4 | 1.393e-2    |
| smooth muscle cell chemotaxis                                                           | GO:0071670 | 1             | PDGFRB             | 2               | 8                  | 1167.94         | 8.560e-4 | 1.393e-2    |
| cell migration involved in vasculogenesis                                               | GO:0035441 | 1             | PDGFRB             | 2               | 8                  | 1167.94         | 8.560e-4 | 1.393e-2    |
| retrotransposition                                                                      | GO:0032197 | 1             | TREX1              | 3               | 8                  | 778.63          | 1.284e-3 | 1.789e-2    |
| glomerular capillary formation                                                          | GO:0072104 | 1             | NOTCH3             | 3               | 8                  | 778.63          | 1.284e-3 | 1.789e-2    |
| DNA synthesis involved in UV-damage excision repair                                     | GO:1904161 | 1             | TREX1              | 3               | 8                  | 778.63          | 1.284e-3 | 1.789e-2    |