

GeDiPNet Cluster 56 -- 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: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 00:26:51

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
heart development	GO:0007507	8	DYNC2H1, CFC1, ISL1, NKX2-5, ZFPM2, MTHFD1, GATA4, BMP2	273	37	14.80	5.009e-8	6.786e-6
cardiac muscle tissue morphogenesis	GO:0055008	3	NKX2-5, ZFPM2, BMP2	13	37	116.55	2.016e-6	1.448e-4
atrial septum morphogenesis	GO:0060413	3	ISL1, NKX2-5, GATA4	13	37	116.55	2.016e-6	1.448e-4
right ventricular cardiac muscle tissue morphogenesis	GO:0003221	2	NKX2-5, ZFPM2	2	37	505.05	3.815e-6	2.420e-4
embryonic heart tube anterior/posterior pattern specification	GO:0035054	2	GATA4, BMP2	3	37	336.70	1.143e-5	5.772e-4
astrocyte differentiation	GO:0048708	3	MYCN, S100B, BMP2	25	37	60.61	1.595e-5	7.542e-4
outflow tract septum morphogenesis	GO:0003148	3	ISL1, NKX2-5, ZFPM2	28	37	54.11	2.262e-5	9.887e-4
cardiac muscle cell differentiation	GO:0055007	3	NKX2-5, GATA4, BMP2	30	37	50.51	2.796e-5	1.160e-3
atrioventricular node development	GO:0003162	2	NKX2-5, GATA4	6	37	168.35	5.693e-5	1.980e-3
methionine metabolic process	GO:0006555	2	MTHFR, MTHFD1	6	37	168.35	5.693e-5	1.980e-3
positive regulation of interleukin-1 alpha production	GO:0032730	2	ISL1, CALCA	7	37	144.30	7.961e-5	2.550e-3
positive regulation of transcription by RNA polymerase II	GO:0045944	10	SLC11A1, MED13L, ISL1, MYCN, NKX2-5, YES1, ZFPM2, GATA1, GATA4, BMP2	1208	37	4.18	8.558e-5	2.696e-3
cell redox homeostasis	GO:0045454	3	SLC11A1, PRDX2, PRDX6	44	37	34.44	8.948e-5	2.787e-3
cell-cell signaling	GO:0007267	5	CALCA, GATA1, NTF3, GATA4, BMP2	234	37	10.79	9.273e-5	2.856e-3
embryo implantation	GO:0007566	3	CALCA, MMP9, SOD1	48	37	31.57	1.162e-4	3.389e-3