

GeDiPNet Cluster 115 -- 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 01:49:12

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	7	CFC1, ISL1, NKX2-5, ZFPM2, MTHFD1, GATA4, BMP2	273	36	13.31	7.641e-7	6.722e-5
cardiac muscle tissue morphogenesis	GO:0055008	3	NKX2-5, ZFPM2, BMP2	13	36	119.79	1.853e-6	1.382e-4
atrial septum morphogenesis	GO:0060413	3	ISL1, NKX2-5, GATA4	13	36	119.79	1.853e-6	1.382e-4
right ventricular cardiac muscle tissue morphogenesis	GO:0003221	2	NKX2-5, ZFPM2	2	36	519.08	3.608e-6	2.355e-4
embryonic heart tube anterior/posterior pattern specification	GO:0035054	2	GATA4, BMP2	3	36	346.06	1.081e-5	5.624e-4
astrocyte differentiation	GO:0048708	3	MYCN, S100B, BMP2	25	36	62.29	1.467e-5	7.147e-4
outflow tract septum morphogenesis	GO:0003148	3	ISL1, NKX2-5, ZFPM2	28	36	55.62	2.081e-5	9.406e-4
cardiac muscle cell differentiation	GO:0055007	3	NKX2-5, GATA4, BMP2	30	36	51.91	2.572e-5	1.103e-3
atrioventricular node development	GO:0003162	2	NKX2-5, GATA4	6	36	173.03	5.386e-5	1.936e-3
methionine metabolic process	GO:0006555	2	MTHFR, MTHFD1	6	36	173.03	5.386e-5	1.936e-3
positive regulation of interleukin-1 alpha production	GO:0032730	2	ISL1, CALCA	7	36	148.31	7.532e-5	2.507e-3
cell-cell signaling	GO:0007267	5	CALCA, GATA1, NTF3, GATA4, BMP2	234	36	11.09	8.102e-5	2.650e-3
response to xenobiotic stimulus	GO:0009410	5	MTHFR, SLC19A1, SOD1, COL18A1, GATA4	248	36	10.47	1.065e-4	3.239e-3
embryo implantation	GO:0007566	3	CALCA, MMP9, SOD1	48	36	32.44	1.070e-4	3.251e-3
in utero embryonic development	GO:0001701	5	GDF1, ZFPM2, GATA1, ACVR1B, BMP2	252	36	10.30	1.148e-4	3.420e-3