

GeDiPNet Cluster 520 -- 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 23:18:18

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	6	CFC1, ISL1, NKX2-5, ZFPM2, GATA4, BMP2	273	17	24.16	9.950e-8	1.264e-5
cardiac muscle tissue morphogenesis	GO:0055008	3	NKX2-5, ZFPM2, BMP2	13	17	253.67	1.778e-7	2.046e-5
atrial septum morphogenesis	GO:0060413	3	ISL1, NKX2-5, GATA4	13	17	253.67	1.778e-7	2.046e-5
right ventricular cardiac muscle tissue morphogenesis	GO:0003221	2	NKX2-5, ZFPM2	2	17	1099.24	7.790e-7	6.987e-5
outflow tract septum morphogenesis	GO:0003148	3	ISL1, NKX2-5, ZFPM2	28	17	117.78	2.020e-6	1.528e-4
embryonic heart tube anterior/posterior pattern specification	GO:0035054	2	GATA4, BMP2	3	17	732.82	2.336e-6	1.721e-4
cardiac muscle cell differentiation	GO:0055007	3	NKX2-5, GATA4, BMP2	30	17	109.92	2.501e-6	1.817e-4
positive regulation of transcription by RNA polymerase II	GO:0045944	8	ISL1, MYCN, NKX2-5, YES1, ZFPM2, GATA4, MED13L, BMP2	1208	17	7.28	4.280e-6	2.799e-4
atrioventricular node development	GO:0003162	2	NKX2-5, GATA4	6	17	366.41	1.166e-5	6.123e-4
cell differentiation	GO:0030154	7	ISL1, NKX2-5, YES1, ZFPM2, GATA4, BMP2, CFAP53	1051	17	7.32	2.061e-5	9.463e-4
heart morphogenesis	GO:0003007	3	ISL1, NKX2-5, BMP2	61	17	54.06	2.178e-5	9.860e-4
outflow tract morphogenesis	GO:0003151	3	ISL1, NKX2-5, ZFPM2	63	17	52.34	2.401e-5	1.059e-3
cardiac ventricle morphogenesis	GO:0003208	2	NKX2-5, GATA4	10	17	219.85	3.490e-5	1.407e-3
mesenchymal cell differentiation	GO:0048762	2	ISL1, BMP2	13	17	169.11	6.040e-5	2.128e-3
cardiac right ventricle morphogenesis	GO:0003215	2	ISL1, GATA4	13	17	169.11	6.040e-5	2.128e-3