

GeDiPNet Cluster 111 -- 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 18:45:39

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
chondrocyte differentiation	GO:0002062	7	CTNNB1, BMPR1B, GDF5, IHH, SLC26A2, BMP2, PTH1R	61	52	41.24	3.302e-10	8.346e-8
skeletal system development	GO:0001501	8	CTNNB1, HOXD13, IHH, TRPS1, BMP2, NOG, PTHLH, PTH1R	151	52	19.04	8.402e-9	1.476e-6
embryonic digit morphogenesis	GO:0042733	6	CTNNB1, CHST11, HOXD13, IHH, SMAD4, NOG	57	52	37.83	1.122e-8	1.888e-6
in utero embryonic development	GO:0001701	9	CTNNB1, CHST11, IHH, SMAD4, BMP2, NOG, PTH1R, AR, BCL2L1	252	52	12.83	2.838e-8	4.194e-6
cartilage development	GO:0051216	6	BMPR1B, CHST11, GDF5, IHH, BMP2, NOG	89	52	24.23	1.680e-7	1.871e-5
seminiferous tubule development	GO:0072520	4	SCAPER, SMAD4, AR, ATRX	21	52	68.45	3.080e-7	3.116e-5
negative regulation of chondrocyte differentiation	GO:0032331	4	CTNNB1, GDF5, IHH, PTHLH	23	52	62.50	4.539e-7	4.306e-5
developmental growth	GO:0048589	4	CHST11, GNAS, NIPBL, SMAD4	30	52	47.92	1.385e-6	1.074e-4
face morphogenesis	GO:0060325	4	NIPBL, NOG, ANKRD11, RAB3GAP1	33	52	43.56	2.055e-6	1.471e-4
cellular response to BMP stimulus	GO:0071773	4	BMPR1B, SMAD4, BMP2, NOG	33	52	43.56	2.055e-6	1.471e-4
osteoblast differentiation	GO:0001649	6	CTNNB1, BMPR1B, IHH, SMAD4, BMP2, NOG	137	52	15.74	2.147e-6	1.524e-4
cell-cell signaling	GO:0007267	7	PCSK5, GDF5, IHH, BMP2, PTHLH, AR, INSL3	234	52	10.75	3.656e-6	2.338e-4
endocardial cushion formation	GO:0003272	3	ROBO1, BMP2, NOG	12	52	89.84	4.393e-6	2.705e-4
BMP signaling pathway	GO:0030509	5	BMPR1B, GDF5, SMAD4, BMP2, NOG	88	52	20.42	4.507e-6	2.761e-4
regulation of developmental growth	GO:0048638	2	NIPBL, AR	2	52	359.37	7.595e-6	4.202e-4