

GeDiPNet Cluster 127 -- 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 00:30:04

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
skeletal system development	GO:0001501	72	ALPL, BMP1, COL1A1, COL1A2, IFITM5, ACAN, ALX4, ANKH, ARSL, BMP2, BPNT2, CDKN1C	151	705	12.64	9.381e-62	4.005e-57
ossification	GO:0001503	43	BMP1, COL1A1, MESD, TAPT1, TMEM38B, BMP2, CASR, COL2A1, COMP, DDR2, DLX5, DMP1	110	705	10.36	1.197e-32	7.755e-29
embryonic limb morphogenesis	GO:0030326	33	ALX1, CHST11, CYP26B1, DLX5, DLX6, DYNC2H1, FBN2, FBXW4, FGF9, FGFR1, GDF5, GLI3	59	705	14.83	8.074e-32	4.707e-28
embryonic digit morphogenesis	GO:0042733	31	LRP5, ALX4, BPNT2, CHST11, CREBBP, GLI3, HOXA11, HOXD13, IFT140, IFT52, IHH, INTU	57	705	14.42	1.910e-29	9.410e-26
cartilage development	GO:0051216	35	BMP1, TAPT1, BMP2, BMPR1B, CHST11, CHSY1, COL11A1, COL11A2, COL2A1, COMP, CSGALNACT1, DDRGK1	89	705	10.42	6.759e-27	2.656e-23
bone development	GO:0060348	32	LRP5, P3H1, PLS3, PPIB, SLC10A7, TMEM38B, WNT1, AMER1, BGN, BMP2, BMPR1B, COL2A1	76	705	11.16	8.018e-26	2.750e-22
bone mineralization	GO:0030282	28	ALPL, COL1A2, IFITM5, TMEM38B, WNT11, ANKH, BMP2, COMP, CYP27B1, EIF2AK3, ENPP1, FGFR2	56	705	13.25	2.339e-25	7.645e-22
positive regulation of gene expression	GO:0010628	75	EMILIN1, SEC16B, BMP2, BMPR1B, BRAF, CASR, CDH3, CYP26B1, DDRGK1, DLL4, DLX5, EIF2AK3	504	705	3.94	8.226e-25	2.524e-21
embryonic hindlimb morphogenesis	GO:0035116	20	AFF3, ALX3, ALX4, FGF8, GPC3, MSX2, NOTCH1, PITX1, PITX2, RPGRIP1L, RSPO2, SHH	29	705	18.28	1.909e-22	4.394e-19
positive regulation of transcription by RNA polymerase II	GO:0045944	114	CREB3L1, LRP5, MBTPS2, SP7, WNT1, ACVR1, ALX1, ALX4, BMP2, BMPR1B, CDC73, CREBBP	1208	705	2.50	3.789e-20	6.402e-17
chondrocyte differentiation	GO:0002062	25	BMP2, BMPR1B, COL2A1, EXT1, EXT2, FGF9, FGFR1, FGFR3, GDF5, GLI3, HMGA2, HOXA11	61	705	10.86	4.197e-20	7.025e-17
osteoblast differentiation	GO:0001649	35	ALPL, COL1A1, CREB3L1, SP7, WNT11, ACVR1, BMP2, BMPR1B, DLX5, FGF9, GLI2, GLI3	137	705	6.77	8.920e-20	1.399e-16
bone morphogenesis	GO:0060349	19	IFITM5, LRP5, ACP5, CHSY1, COMP, CYP26B1, DLX5, EXT1, FGFR2, FGFR3, IFT80, LTBP3	32	705	15.74	1.564e-19	2.358e-16
cilium assembly	GO:0060271	44	CC2D2A, CEP290, CFAP410, CILK1, CPLANE1, DYNC2H1, DYNC2I1, DYNC2I2, DYNC2LI1, DYNLT2B, FLNA, FUZ	237	705	4.92	1.113e-18	1.474e-15
heart development	GO:0007507	47	ABCC9, ACVR1, BMP2, CC2D2A, DYNC2H1, EDN1, EDNRA, EP300, FBN1, FGF8, FN1, GJA1	273	705	4.56	1.740e-18	2.238e-15