

GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test ($P(X \geq k)$), Benjamini-Hochberg FDR-corrected across all tested pairs. Corroborated Shared Genes: count of shared genes backed by ≥ 2 distinct disease_gdp.main_source values combined across both diseases (e.g. GWAS-backed for one, ClinVar-backed for the other still counts); Shared Gene Names lists each gene's own source count in parentheses. Overlap Coefficient: shared genes / MIN(each disease's own total gene count) -- complements the Jaccard-based Similarity Score by showing how much of the SMALLER disease's entire known gene-set is covered by this pair, which Jaccard (dividing by the union) can understate. Shared Cluster: cluster id if both diseases fall in the same label-propagation cluster (scripts/build_disease_clusters.php), blank otherwise. See scripts/build_related.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-11 03:00:14. Filters applied: disease name contains "Metaphyseal chondrodysplasia" (19 matching pairs). · Rows: 19 · Generated: 2026-10-11 09:12:52

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Brachydactyly-short stature-retinitis pigmentosa syndrome	Metaphyseal chondrodysplasia with retinitis pigmentosa	1	1	CWC27 (6)	0.50000	1.00000	6.494e-5	2.331e-4	373
Metaphyseal chondrodysplasia with retinitis pigmentosa	Retinitis pigmentosa with or without skeletal anomalies	1	1	CWC27 (6)	0.50000	1.00000	6.494e-5	2.331e-4	373
Aneurysm	Metaphyseal chondrodysplasia	2	2	FBN1 (2), MMP13 (5)	0.05882	0.25000	8.237e-5	2.942e-4	
Blomstrand lethal chondrodysplasia	Metaphyseal chondrodysplasia	1	1	PTH1R (4)	0.11111	1.00000	5.195e-4	1.061e-3	
Eiken skeletal dysplasia	Metaphyseal chondrodysplasia	1	1	PTH1R (6)	0.11111	1.00000	5.195e-4	1.061e-3	
Metaphyseal chondrodysplasia	SF3B4-related acrofacial dysostosis	1	1	SF3B4 (2)	0.11111	1.00000	5.195e-4	1.061e-3	
Congenital pectus carinatum	Metaphyseal chondrodysplasia	1	0	FBN1 (1)	0.11111	1.00000	5.195e-4	1.061e-3	
Coronary artery dissection	Metaphyseal chondrodysplasia	1	0	FBN1 (1)	0.11111	1.00000	5.195e-4	1.061e-3	
Metaphyseal chondrodysplasia	Metaphyseal enchondromatosis	1	1	IDH1 (2)	0.11111	1.00000	5.195e-4	1.061e-3	
Metaphyseal chondrodysplasia	Schmid metaphyseal chondrodysplasia	1	1	COL10A1 (6)	0.11111	1.00000	5.195e-4	1.061e-3	
Metaphyseal chondrodysplasia	Trichorhinophalangeal syndrome	1	1	TRPS1 (7)	0.09091	0.33333	1.558e-3	2.376e-3	
Metaphyseal chondrodysplasia	Metaphyseal dysplasia	1	1	MMP13 (6)	0.09091	0.33333	1.558e-3	2.376e-3	
Diverticulitis	Metaphyseal chondrodysplasia with retinitis pigmentosa	1	1	CWC27 (5)	0.03448	1.00000	1.818e-3	2.677e-3	373
Congenital cartilage disorder	Schmid metaphyseal chondrodysplasia	1	1	COL10A1 (2)	0.03226	1.00000	1.948e-3	2.828e-3	
Osteochondrodysplasias	Schmid metaphyseal chondrodysplasia	1	1	COL10A1 (2)	0.02941	1.00000	2.143e-3	3.044e-3	
Metaphyseal chondrodysplasia with retinitis pigmentosa	Osteonecrosis	1	1	CWC27 (5)	0.02500	1.00000	2.533e-3	3.446e-3	373
Carpal tunnel syndrome	Schmid metaphyseal chondrodysplasia	1	1	COL10A1 (2)	0.01563	1.00000	4.091e-3	5.162e-3	
Metaphyseal chondrodysplasia with retinitis pigmentosa	Urinary bladder cancer	1	1	CWC27 (5)	0.01493	1.00000	4.286e-3	5.383e-3	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Macular degeneration	Schmid metaphyseal chondrodysplasia	1	1	COL10A1 (2)	0.01471	1.00000	4.351e-3	5.456e-3	