

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: 2026-10-10 03:00:13. Filters applied: disease name contains "Congenital musculoskeletal anomalies" (7 matching pairs). · Rows: 7 · Generated: 2026-10-10 08:32:17

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital musculoskeletal anomalies	Shprintzen-goldberg syndrome	1	1	SKI (6)	0.11111	0.33333	1.169e-3	1.895e-3	
Congenital musculoskeletal anomalies	Congenital respiratory system anomaly	1	0	TGFB2 (1)	0.11111	0.33333	1.169e-3	1.895e-3	
Congenital musculoskeletal anomalies	Craniofacial dysmorphism skeletal anomalies intellectual disability syndrome	1	1	TMCO1 (4)	0.11111	0.33333	1.169e-3	1.895e-3	
Congenital musculoskeletal anomalies	Myelogenous leukemia	1	1	ABL1 (2)	0.11111	0.33333	1.169e-3	1.895e-3	
Cerebrofaciothoracic dysplasia	Congenital musculoskeletal anomalies	1	1	TMCO1 (2)	0.14286	1.00000	3.897e-4	8.665e-4	
Congenital musculoskeletal anomalies	Lymphedema-distichiasis syndrome	1	1	FOXC2 (3)	0.14286	1.00000	3.897e-4	8.665e-4	
Congenital musculoskeletal anomalies	Lymphedema-distichiasis syndrome with renal disease and diabetes mellitus	1	0	FOXC2 (1)	0.14286	1.00000	3.897e-4	8.665e-4	