

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: 2026-10-14 03:00:13. Filters applied: disease name contains "Cardiac, facial, and digital anomalies with developmental delay" (5 matching pairs). · Rows: 5 · Generated: 2026-10-14 17:50:56

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cardiac, facial, and digital anomalies with developmental delay	Uranostaphyloschisis	1	1	MEIS2 (3)	0.03846	0.50000	3.115e-3	4.096e-3	
Cardiac, facial, and digital anomalies with developmental delay	syndromic complex neurodevelopmental disorder	1	1	TRAF7 (5)	0.05000	0.50000	2.337e-3	3.243e-3	
15q24 microdeletion	Cardiac, facial, and digital anomalies with developmental delay	1	1	MEIS2 (3)	0.25000	0.50000	2.598e-4	6.509e-4	
Cardiac, facial, and digital anomalies with developmental delay	Cleft palate cardiac defects impaired intellectual development	1	1	MEIS2 (4)	0.33333	1.00000	1.299e-4	3.931e-4	
Cardiac, facial, and digital anomalies with developmental delay	Cleft palate congenital heart defect intellectual disability syndrome due to 15q14 microdeletion	1	1	MEIS2 (4)	0.33333	1.00000	1.299e-4	3.931e-4	