GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-20 03:00:20. Filters applied: disease name contains "Multiple malformations of neural tube, ear, genitourinary and gastrointestinal systems" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 07:23:00

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Multiple malformations of neural tube, ear, genitourinary and gastrointestinal systems	Scoliosis	1	1	DACT1 (2)	0.00096	1.00000	6.708e-2	6.836e-2	
Colorectal neoplasms	Multiple malformations of neural tube, ear, genitourinary and gastrointestinal systems	1	1	DACT1 (2)	0.00347	1.00000	1.853e-2	1.996e-2	
Craniosynostosis	Multiple malformations of neural tube, ear, genitourinary and gastrointestinal systems	1	1	DACT1 (2)	0.01408	1.00000	4.520e-3	5.478e-3	
Multiple malformations of neural tube, ear, genitourinary and gastrointestinal systems	Neural tube defect	1	0	DACT1 (1)	0.01887	1.00000	3.357e-3	4.219e-3	
Multiple malformations of neural tube, ear, genitourinary and gastrointestinal systems	Townes-brocks syndrome	1	1	DACT1 (7)	0.33333	1.00000	1.291e-4	3.269e-4	