

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: 2026-10-20 03:00:20. Filters applied: disease name contains "B-cell immunodeficiency, distal limb anomalies, and urogenital malformations" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 05:47:01

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
B-cell immunodeficiency, distal limb anomalies, and urogenital malformations	Deafness, autosomal dominant	1	1	TOP2B (2)	0.33333	1.00000	1.291e-4	3.269e-4	
B-cell immunodeficiency, distal limb anomalies, and urogenital malformations	Prostatic intraepithelial neoplasia	1	1	TOP2B (3)	0.04000	1.00000	1.550e-3	2.192e-3	
B-cell immunodeficiency, distal limb anomalies, and urogenital malformations	Nonsyndromic hearing loss	1	1	TOP2B (2)	0.00833	1.00000	7.683e-3	8.815e-3	
B-cell immunodeficiency, distal limb anomalies, and urogenital malformations	Myeloid leukemia	1	1	TOP2B (3)	0.00407	1.00000	1.582e-2	1.725e-2	
B-cell immunodeficiency, distal limb anomalies, and urogenital malformations	Obstructive pulmonary disease	1	1	TOP2B (3)	0.00179	1.00000	3.609e-2	3.775e-2	