

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 "hereditary breast carcinoma" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 16:35:16

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
FANCM Fanconi-like genomic instability disorder	hereditary breast carcinoma	1	0	FANCM (1)	0.25000	1.00000	1.948e-4	5.354e-4	
hereditary breast carcinoma	microcephaly with intellectual disability	1	0	MCPH1 (1)	0.25000	1.00000	1.948e-4	5.354e-4	
hereditary breast carcinoma	Retinal vasculopathy with cerebral leukodystrophy	1	1	ATRIP (2)	0.16667	0.33333	5.844e-4	1.156e-3	
Chilblain lupus erythematosus	hereditary breast carcinoma	1	1	ATRIP (2)	0.12500	0.33333	9.739e-4	1.665e-3	
Cadasil	hereditary breast carcinoma	1	1	ATRIP (2)	0.11111	0.33333	1.169e-3	1.895e-3	