

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: 2026-10-11 03:00:14. Filters applied: disease name contains "BRCA1-related cancer predisposition" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 05:17:25

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
BRCA1-related cancer predisposition	fanconi anemia, complementation group s	1	0	BRCA1 (1)	0.50000	1.00000	6.494e-5	2.331e-4	
BRCA1-related cancer predisposition	Hereditary breast-ovarian cancer syndrome	1	1	BRCA1 (4)	0.16667	1.00000	3.247e-4	7.709e-4	
BRCA1-related cancer predisposition	Breast implant-associated anaplastic large cell lymphoma	1	1	BRCA1 (2)	0.14286	1.00000	3.897e-4	8.665e-4	
BRCA1-related cancer predisposition	Periventricular nodular heterotopia	1	1	BRCA1 (2)	0.07692	1.00000	7.793e-4	1.405e-3	
BRCA1-related cancer predisposition	Hereditary breast and ovarian cancer syndrome	1	1	BRCA1 (5)	0.06250	1.00000	9.742e-4	1.665e-3	