

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 "Brain cancer" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 13:12:55

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Brain cancer	Brain neoplasms	4	0	APOBEC3C (1), CCT6B (1), FCHO2 (1), FOXN3 (1)	0.10000	0.80000	1.574e-10	1.537e-9	
Brain cancer	Small cell lung carcinoma	2	0	FCHO2 (1), FOXN3 (1)	0.02105	0.40000	3.415e-4	8.098e-4	
Brain cancer	Burkitt lymphoma	1	1	CCT6B (2)	0.04167	0.20000	6.155e-3	7.401e-3	
Brain cancer	Periodontal disease	1	0	FCHO2 (1)	0.04167	0.20000	6.155e-3	7.401e-3	
Brain cancer	Non-organic psychosis	1	1	APOBEC3C (2)	0.01351	0.20000	2.221e-2	2.404e-2	