

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 "Giant cell glioblastoma" (11 matching pairs). · Rows: 11 · Generated: 2026-10-11 11:13:37

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Giant cell glioblastoma	Gliosarcoma	12	0	FGFR3 (1), TP53 (1), EGFR (1), MGMT (1), SEPTIN14 (1), TACC3 (1), PPARG (1), IDH1 (1), FGFR1 (1), NFKBIA (1), LZTR1 (1), TACC1 (1)	0.66667	0.92308	6.405e-38	2.525e-36	
Cholangiocarcinoma	Giant cell glioblastoma	4	3	TP53 (2), EGFR (2), IDH1 (2), ROS1 (1)	0.08333	0.30769	2.219e-8	1.727e-7	
Cushing's disease	Giant cell glioblastoma	2	2	TP53 (2), PPARG (2)	0.08696	0.18182	3.604e-5	1.656e-4	
Bile duct neoplasms	Giant cell glioblastoma	1	1	EGFR (2)	0.07143	1.00000	8.443e-4	1.499e-3	
Café-au-lait macules	Giant cell glioblastoma	1	0	LZTR1 (1)	0.07143	1.00000	8.443e-4	1.499e-3	
ectodermal dysplasia and immunodeficiency 2	Giant cell glioblastoma	1	1	NFKBIA (2)	0.07143	1.00000	8.443e-4	1.499e-3	
Achondroplasia	Giant cell glioblastoma	1	1	FGFR3 (3)	0.07143	1.00000	8.443e-4	1.499e-3	
Camptodactyly, tall stature, and hearing loss syndrome	Giant cell glioblastoma	1	1	FGFR3 (5)	0.07143	1.00000	8.443e-4	1.499e-3	
Giant cell glioblastoma	LZTR1-related schwannomatosis	1	1	LZTR1 (2)	0.07143	1.00000	8.443e-4	1.499e-3	
Giant cell glioblastoma	Metaphyseal enchondromatosis	1	1	IDH1 (2)	0.07143	1.00000	8.443e-4	1.499e-3	
Giant cell glioblastoma	Mountain sickness	1	1	TACC1 (2)	0.06667	0.50000	1.688e-3	2.531e-3	