

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 "Lymphomatoid papulosis" (8 matching pairs). · Rows: 8 · Generated: 2026-10-20 04:28:26

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Lymphomatoid papulosis	Primary cutaneous anaplastic large cell lymphoma	1	1	NPM1 (2)	0.20000	0.50000	3.874e-4	7.329e-4	
Intellectual developmental disorder, autosomal dominant 47	Lymphomatoid papulosis	1	0	STAG1 (1)	0.25000	1.00000	1.937e-4	4.414e-4	
Lymphomatoid papulosis	Mental retardation, autosomal dominant 47	1	0	STAG1 (1)	0.25000	1.00000	1.937e-4	4.414e-4	
Lymphomatoid papulosis	Neuroblastoma, susceptibility to, 3	1	1	ALK (2)	0.25000	1.00000	1.937e-4	4.414e-4	
Lymphomatoid papulosis	Neuroblastic tumor	1	0	ALK (1)	0.25000	1.00000	1.937e-4	4.414e-4	
Histiocytic and dendritic cell neoplasm	Lymphomatoid papulosis	2	0	ALK (1), NPM1 (1)	0.12500	0.66667	2.275e-6	1.321e-5	
Liver inflammatory myofibroblastic tumor	Lymphomatoid papulosis	2	0	ALK (1), NPM1 (1)	0.18182	0.66667	9.002e-7	5.497e-6	
Central nervous system anaplastic large cell lymphoma	Lymphomatoid papulosis	2	0	ALK (1), NPM1 (1)	0.25000	0.66667	3.752e-7	2.417e-6	