

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: 2026-10-08 03:00:13. Filters applied: disease name contains "Lymphatic malformation" (16 matching pairs). · Rows: 16 · Generated: 2026-10-08 11:34:58

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Lymphatic malformation	Non-immune hydrops fetalis	6	6	EPHB4 (4), PIEZO1 (5), THSD1 (4), ANGPT2 (4), CALCRL (4), FLT4 (5)	0.11321	0.46154	7.443e-13	9.121e-12	
congenital heart defects, multiple types, 7	lymphatic malformation 1	1	0	FLT4 (1)	0.50000	1.00000	6.494e-5	2.317e-4	
Hydrops fetalis	Lymphatic malformation	2	2	CELSR1 (4), PIEZO1 (5)	0.07143	0.15385	7.843e-5	2.788e-4	
Capillary infantile hemangioma	lymphatic malformation 1	1	1	FLT4 (3)	0.25000	1.00000	1.948e-4	5.325e-4	
Lymphatic malformation	Primary microcephaly	2	2	MCPH1 (3), ANGPT2 (4)	0.04255	0.15385	3.854e-4	8.637e-4	
congenital heart defects, multiple types, 7	Lymphatic malformation	1	1	FLT4 (4)	0.07143	1.00000	8.443e-4	1.497e-3	
Congenital primary lymphedema of gordon	Lymphatic malformation	1	1	VEGFC (6)	0.07143	1.00000	8.443e-4	1.497e-3	
EPHB4-associated vascular malformation spectrum	Lymphatic malformation	1	1	EPHB4 (5)	0.07143	1.00000	8.443e-4	1.497e-3	
hypomyelinating leukodystrophy 2	Lymphatic malformation	1	1	GJC2 (6)	0.07143	1.00000	8.443e-4	1.497e-3	
Lymphatic malformation	Yellow nail syndrome	1	1	CELSR1 (5)	0.07143	1.00000	8.443e-4	1.497e-3	
Lymphatic malformation	lymphatic malformation 1	1	1	FLT4 (4)	0.07143	1.00000	8.443e-4	1.497e-3	
Lymphatic malformation	microcephaly with intellectual disability	1	1	MCPH1 (2)	0.07143	1.00000	8.443e-4	1.497e-3	
Lymphatic malformation	obsolete PIEZO1-related generalized lymphatic dysplasia with non-immune hydrops fetalis	1	1	PIEZO1 (5)	0.07143	1.00000	8.443e-4	1.497e-3	
lymphatic malformation 1	Lymphedema	1	1	FLT4 (3)	0.05882	1.00000	1.039e-3	1.737e-3	
lymphatic malformation 1	Non-immune hydrops fetalis	1	1	FLT4 (2)	0.02174	1.00000	2.922e-3	3.876e-3	
Breast neoplasms	Diffuse lymphatic malformation	1	1	ARAF (2)	0.00193	1.00000	3.358e-2	3.555e-2	4