GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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 "Multiple symmetric lipomatosis" (9 matching pairs). · Rows: 9 · Generated: 2026-10-20 03:09:51

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Charcot-Marie-Tooth disease type 2A2	Multiple symmetric lipomatosis with partial lipodystrophy	1	0	MFN2 (1)	0.50000	1.00000	6.457e-5	1.985e-4	445
Lipomatosis, multiple symmetric, with or without peripheral neuropathy	Multiple symmetric lipomatosis with partial lipodystrophy	1	1	MFN2 (2)	0.50000	1.00000	6.457e-5	1.985e-4	445
Merrf syndrome	Multiple symmetric lipomatosis	1	0	TRNK (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Axonal hereditary motor and sensory neuropathy	Multiple symmetric lipomatosis with partial lipodystrophy	1	1	MFN2 (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Multiple symmetric lipomatosis with partial lipodystrophy	Nail dystrophy	1	1	MFN2 (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Multiple symmetric lipomatosis	Sensorineural hearing impairment	1	0	TRNK (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Autoimmune neurological syndrome	Multiple symmetric lipomatosis with partial lipodystrophy	1	1	MFN2 (2)	0.05882	1.00000	1.033e-3	1.574e-3	
Multiple symmetric lipomatosis with partial lipodystrophy	Multiple system atrophy	1	1	MFN2 (2)	0.03226	1.00000	1.937e-3	2.646e-3	445
Multiple symmetric lipomatosis	Optic atrophy	1	0	TRNK (1)	0.00526	1.00000	1.220e-2	1.348e-2	