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: 2026-10-21 12:58:11. Filters applied: disease name contains "Myasthenic syndrome, congenital, 7a, presynaptic, and distal motor neuropathy, autosomal dominant" (5 matching pairs). · Rows: 5 · Generated: 2026-10-21 17:58:19

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Myasthenic syndrome	Myasthenic syndrome, congenital, 7a, presynaptic, and distal motor neuropathy, autosomal dominant	1	1	SYT2 (6)	0.02439	1.00000	2.583e-3	3.337e-3	
Congenital myasthenic syndrome	Myasthenic syndrome, congenital, 7a, presynaptic, and distal motor neuropathy, autosomal dominant	1	1	SYT2 (4)	0.03030	1.00000	2.066e-3	2.786e-3	
Myasthenic syndrome, congenital, 7a, presynaptic, and distal motor neuropathy, autosomal dominant	Thyroid gland neoplasms	1	1	SYT2 (2)	0.04762	1.00000	1.291e-3	1.889e-3	
Myasthenic syndrome, congenital, 7a, presynaptic, and distal motor neuropathy, autosomal dominant	Presynaptic congenital myasthenic syndrome	1	1	SYT2 (4)	0.08333	1.00000	7.102e-4	1.174e-3	
Congenital myasthenic syndrome 7	Myasthenic syndrome, congenital, 7a, presynaptic, and distal motor neuropathy, autosomal dominant	1	1	SYT2 (2)	0.50000	1.00000	6.457e-5	1.985e-4	