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 "Spastic paraplegia 79a, autosomal dominant" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 07:01:41

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Early-onset progressive neurodegeneration-blindness-ataxia-spasticity syndrome	Spastic paraplegia 79a, autosomal dominant	1	1	UCHL1 (4)	0.50000	1.00000	6.457e-5	1.985e-4	
Parkinson disease 5, autosomal dominant, susceptibility to	Spastic paraplegia 79a, autosomal dominant	1	0	UCHL1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Spastic paraplegia 79a, autosomal dominant	Spastic paraplegia 79b, autosomal recessive	1	0	UCHL1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Peripheral nervous system disease	Spastic paraplegia 79a, autosomal dominant	1	1	UCHL1 (2)	0.01852	1.00000	3.422e-3	4.286e-3	
Non-neoplastic peripheral nervous system disease	Spastic paraplegia 79a, autosomal dominant	1	1	UCHL1 (2)	0.01818	1.00000	3.487e-3	4.343e-3	