

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: 2026-10-12 03:00:13. Filters applied: disease name contains "Horizontal gaze palsy with progressive scoliosis" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 23:43:54

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
gaze palsy, familial horizontal, with progressive scoliosis 1	Horizontal gaze palsy with progressive scoliosis	1	1	ROBO3 (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Horizontal gaze palsy with progressive scoliosis	Partial agenesis of corpus callosum	1	0	DCC (1)	0.20000	0.50000	3.896e-4	8.665e-4	
Congenital mirror movements	Horizontal gaze palsy with progressive scoliosis	1	1	DCC (3)	0.16667	0.50000	5.195e-4	1.061e-3	
Horizontal gaze palsy with progressive scoliosis	Mirror movements	1	1	DCC (6)	0.16667	0.50000	5.195e-4	1.061e-3	
Horizontal gaze palsy with progressive scoliosis	Keratitis	1	1	DCC (2)	0.04167	0.50000	2.856e-3	3.806e-3	