

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: 2026-10-10 03:00:13. Filters applied: disease name contains "Mirror movements" (9 matching pairs). · Rows: 9 · Generated: 2026-10-10 16:34:57

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital mirror movements	Hereditary breast and ovarian cancer syndrome	1	1	RAD51 (2)	0.05263	0.25000	3.891e-3	4.941e-3	
Hereditary breast and ovarian cancer syndrome	Mirror movements	1	1	RAD51 (6)	0.05263	0.25000	3.891e-3	4.941e-3	
Brain edema	Congenital mirror movements	1	1	NTN1 (3)	0.07143	0.25000	2.595e-3	3.514e-3	
Brain edema	Mirror movements	1	1	NTN1 (4)	0.07143	0.25000	2.595e-3	3.514e-3	
Congenital mirror movements	Partial agenesis of corpus callosum	1	1	DCC (3)	0.14286	0.33333	7.792e-4	1.405e-3	
Mirror movements	Partial agenesis of corpus callosum	1	1	DCC (6)	0.14286	0.33333	7.792e-4	1.405e-3	
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	
Congenital mirror movements	Mirror movements	4	4	DCC (7), RAD51 (6), NTN1 (5), DNAL4 (6)	0.80000	1.00000	4.271e-16	6.517e-15	