

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Agenesis of corpus callosum" (12 matching pairs). · Rows: 12 · Generated: 2026-10-10 23:20:31

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
holoprosencephaly 3	Partial agenesis of corpus callosum	1	1	SHH (2)	0.25000	1.00000	1.948e-4	5.354e-4	232
Partial agenesis of corpus callosum	Preaxial polydactyly with upper back hypertrichosis	1	1	SHH (2)	0.25000	1.00000	1.948e-4	5.354e-4	232
Partial agenesis of corpus callosum	Skeletal system disorder	1	0	SHH (1)	0.25000	1.00000	1.948e-4	5.354e-4	232
Agenesis of corpus callosum	Corpus callosum agenesis neuropathy syndrome	1	1	SLC12A6 (4)	0.25000	0.50000	2.598e-4	6.509e-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	
Partial agenesis of corpus callosum	Triphalangeal thumb-polysyndactyly syndrome	1	1	SHH (2)	0.20000	0.50000	3.896e-4	8.665e-4	232
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	
Agenesis of corpus callosum	Clinodactyly	1	1	SLC12A6 (2)	0.05000	0.50000	2.337e-3	3.243e-3	
Agenesis of corpus callosum	Cerebral arteriovenous malformations	1	1	CDH2 (3)	0.04167	0.50000	2.856e-3	3.806e-3	
Agenesis of corpus callosum	Auditory neuropathy	1	1	CDH2 (3)	0.03030	0.50000	4.023e-3	5.086e-3	
Agenesis of corpus callosum	Dejerine-sottas disease	1	1	SLC12A6 (2)	0.02500	0.50000	4.930e-3	6.053e-3	