

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: 2026-10-09 03:00:13. Filters applied: disease name contains "Congenital cataract hearing loss developmental delay syndrome" (5 matching pairs). · Rows: 5 · Generated: 2026-10-09 18:06:50

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital cataract hearing loss developmental delay syndrome	Partial epilepsy	1	1	SLC33A1 (3)	0.02174	0.50000	5.707e-3	6.924e-3	
Congenital cataract hearing loss developmental delay syndrome	Liver failure	1	1	GFER (4)	0.01852	0.50000	6.743e-3	8.019e-3	
Congenital cataract hearing loss developmental delay syndrome	Hereditary spastic paraplegia	1	1	SLC33A1 (2)	0.00971	0.50000	1.308e-2	1.460e-2	
Congenital cataract hearing loss developmental delay syndrome	Spastic paraplegia	1	1	SLC33A1 (4)	0.00820	0.50000	1.553e-2	1.714e-2	
Congenital cataract hearing loss developmental delay syndrome	Developmental disability	1	1	SLC33A1 (3)	0.00690	0.50000	1.849e-2	2.019e-2	