

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: 2026-10-20 03:00:20. Filters applied: disease name contains "Leukoencephalopathy, progressive, with ovarian failure" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 03:54:45

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Combined oxidative phosphorylation deficiency	Leukoencephalopathy, progressive, with ovarian failure	1	1	AARS2 (7)	0.01449	1.00000	4.390e-3	5.339e-3	
Fetal hydrops	Leukoencephalopathy, progressive, with ovarian failure	1	0	AARS2 (1)	0.09091	1.00000	6.457e-4	1.087e-3	
Leukoencephalopathy, progressive, with ovarian failure	Visual impairment	1	1	AARS2 (2)	0.09091	1.00000	6.457e-4	1.087e-3	
Congenital hypoplasia of lung	Leukoencephalopathy, progressive, with ovarian failure	1	1	AARS2 (2)	0.25000	1.00000	1.937e-4	4.414e-4	
Leukoencephalopathy, progressive, with ovarian failure	Polyhydramnios	1	0	AARS2 (1)	0.33333	1.00000	1.291e-4	3.269e-4	