

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 "2,4-dienoyl-coa reductase deficiency" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 13:25:36

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
2,4-dienoyl-coa reductase deficiency	progressive encephalopathy with leukodystrophy due to DECR deficiency	1	1	NADK2 (4)	0.33333	1.00000	1.299e-4	3.931e-4	
2,4-dienoyl-coa reductase deficiency	Multinodular goiter	1	1	NADK2 (4)	0.03333	0.50000	3.634e-3	4.667e-3	
2,4-dienoyl-coa reductase deficiency	Liver disease	1	1	DECR1 (3)	0.00629	0.50000	2.029e-2	2.206e-2	
2,4-dienoyl-coa reductase deficiency	Insomnia	1	1	DECR1 (3)	0.00093	0.50000	1.352e-1	1.364e-1	
2,4-dienoyl-coa reductase deficiency	Diabetes mellitus type 2	1	1	NADK2 (4)	0.00032	0.50000	3.601e-1	3.601e-1	