

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 "3-hydroxyacyl-coa dehydrogenase deficiency" (10 matching pairs). · Rows: 10 · Generated: 2026-10-10 15:10:39

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
long chain 3-hydroxyacyl-coa dehydrogenase deficiency	Osteoarthritis	1	1	HADHA (2)	0.00137	1.00000	4.741e-2	4.920e-2	
long chain 3-hydroxyacyl-coa dehydrogenase deficiency	Myocardial ischemia	1	1	HADHA (3)	0.00255	1.00000	2.539e-2	2.713e-2	
3-hydroxyacyl-coa dehydrogenase deficiency	Amyotrophic lateral sclerosis	1	1	HADH (3)	0.00300	1.00000	2.156e-2	2.336e-2	
Fatty liver	long chain 3-hydroxyacyl-coa dehydrogenase deficiency	1	1	HADHA (2)	0.01064	1.00000	6.040e-3	7.267e-3	
Fatty liver, alcoholic	long chain 3-hydroxyacyl-coa dehydrogenase deficiency	1	1	HADHA (2)	0.01149	1.00000	5.585e-3	6.785e-3	
3-hydroxyacyl-coa dehydrogenase deficiency	Hyperinsulinism	1	1	HADH (6)	0.02326	1.00000	2.728e-3	3.665e-3	
3-hydroxyacyl-coa dehydrogenase deficiency	Hyperinsulinemic hypoglycemia	1	1	HADH (6)	0.08333	1.00000	7.144e-4	1.335e-3	
3-hydroxyacyl-coa dehydrogenase deficiency	Congenital hyperinsulinism	1	1	HADH (4)	0.14286	1.00000	3.897e-4	8.665e-4	
long chain 3-hydroxyacyl-coa dehydrogenase deficiency	Trifunctional protein deficiency	1	1	HADHA (3)	0.25000	1.00000	1.948e-4	5.354e-4	
3-hydroxyacyl-coa dehydrogenase deficiency	obsolete hyperinsulinism due to short chain 3-hydroxylacyl-CoA dehydrogenase deficiency	1	1	HADH (4)	0.50000	1.00000	6.494e-5	2.331e-4	