

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 "Congenital bile acid synthesis defect" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 15:10:22

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Alpha-methylacyl-coa racemase deficiency	Congenital bile acid synthesis defect	1	1	AMACR (7)	0.14286	1.00000	3.897e-4	8.665e-4	
Congenital bile acid synthesis defect	Oxysterol accumulation disorder	1	1	CYP7B1 (6)	0.14286	1.00000	3.897e-4	8.665e-4	
Congenital bile acid synthesis defect	Oculopharyngodistal myopathy	1	1	ABCD3 (7)	0.09091	0.20000	1.947e-3	2.828e-3	
Congenital bile acid synthesis defect	Hereditary sensory and motor neuropathy	1	1	AMACR (6)	0.08333	0.16667	2.336e-3	3.243e-3	
Congenital bile acid synthesis defect	Intrahepatic cholestasis	1	1	HSD3B7 (7)	0.06667	0.16667	3.502e-3	4.517e-3	