

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: 2026-10-12 03:00:13. Filters applied: disease name contains "Donnai-barrow syndrome" (5 matching pairs). · Rows: 5 · Generated: 2026-10-12 02:09:13

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Donnai-barrow syndrome	methylmalonic aciduria and homocystinuria type cblF	1	1	LMBRD1 (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Donnai-barrow syndrome	Vitamin d deficiency	1	1	LRP2 (5)	0.20000	0.50000	3.896e-4	8.665e-4	
Cobalamin c disease	Donnai-barrow syndrome	1	0	LMBRD1 (1)	0.11111	0.50000	9.090e-4	1.576e-3	
Donnai-barrow syndrome	Intracellular cobalamin metabolism disorder	1	1	LMBRD1 (2)	0.09091	0.50000	1.169e-3	1.895e-3	
Donnai-barrow syndrome	Metabolic bone disorder	1	1	LRP2 (5)	0.06250	0.50000	1.818e-3	2.677e-3	