

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Congenital central hypothyroidism" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 16:53:38

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital central hypothyroidism	Thyroid hormone resistance	1	1	TRHR (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Brachycephaly	Congenital central hypothyroidism	1	0	TRHR (1)	0.09091	1.00000	6.494e-4	1.241e-3	
Congenital central hypothyroidism	Corneal neovascularization	1	1	TRHR (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Congenital central hypothyroidism	Keratitis	1	1	TRHR (2)	0.04348	1.00000	1.429e-3	2.226e-3	
Congenital central hypothyroidism	Intellectual disability	1	0	TRHR (1)	0.01299	1.00000	4.936e-3	6.053e-3	