

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 cataract microcornea with corneal opacity" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 06:47:12

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Anterior segment dysgenesis	Congenital cataract microcornea with corneal opacity	2	2	ATOH7 (3), PXDN (5)	0.08333	1.00000	2.134e-6	1.183e-5	
anterior segment dysgenesis 7	Congenital cataract microcornea with corneal opacity	1	1	PXDN (3)	0.33333	1.00000	1.299e-4	3.931e-4	
Anterior segment mesenchymal dysgenesis	Congenital cataract microcornea with corneal opacity	1	1	PXDN (3)	0.06250	0.50000	1.818e-3	2.677e-3	
Congenital cataract microcornea with corneal opacity	Visual disorder	1	1	PXDN (3)	0.04545	0.50000	2.596e-3	3.514e-3	
Congenital cataract microcornea with corneal opacity	Systemic sclerosis	1	1	PXDN (3)	0.00769	0.50000	1.656e-2	1.819e-2	