

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 "Bietti crystalline corneoretinal dystrophy" (6 matching pairs). · Rows: 6 · Generated: 2026-10-10 20:46:40

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Bietti crystalline corneoretinal dystrophy	Hereditary corneal dystrophy	2	1	CYP4V2 (6), KLKB1 (1)	0.14286	0.66667	1.670e-6	9.435e-6	
ABCA4-related retinopathy	Bietti crystalline corneoretinal dystrophy	1	1	ABCA4 (2)	0.25000	1.00000	1.948e-4	5.354e-4	
Atrophic retina	Bietti crystalline corneoretinal dystrophy	1	0	ABCA4 (1)	0.25000	1.00000	1.948e-4	5.354e-4	
Bietti crystalline corneoretinal dystrophy	Congenital prekallikrein deficiency	1	1	KLKB1 (2)	0.25000	1.00000	1.948e-4	5.354e-4	
Bietti crystalline corneoretinal dystrophy	inherited prekallikrein deficiency	1	1	KLKB1 (2)	0.25000	1.00000	1.948e-4	5.354e-4	
Bietti crystalline corneoretinal dystrophy	Diastolic heart failure	1	1	ABCA4 (2)	0.20000	0.50000	3.896e-4	8.665e-4	