GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-20 03:00:20. Filters applied: disease name contains "Inherited retinal dystrophy" (16 matching pairs). · Rows: 16 · Generated: 2026-10-20 06:34:05

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Inherited retinal dystrophy	Microphthalmia with retinitis pigmentosa and ocular anomalies	1	1	C1QTNF5 (2)	0.05000	0.50000	2.323e-3	3.054e-3	
Enhanced s-cone syndrome	Inherited retinal dystrophy	1	1	NR2E3 (2)	0.05263	1.00000	1.162e-3	1.729e-3	
Generalized resistance to thyroid hormone	Inherited retinal dystrophy	1	0	THRB (1)	0.05263	1.00000	1.162e-3	1.729e-3	
Goldmann-favre syndrome	Inherited retinal dystrophy	1	1	NR2E3 (4)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Mucopolysaccharidosis type 3C	1	1	HGSNAT (2)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Mucopolysaccharidosis type iiic (sanfilippo c)	1	1	HGSNAT (2)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Pituitary resistance to thyroid hormone	1	0	THRB (1)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Refetoff syndrome	1	0	THRB (1)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Retinitis pigmentosa-12, autosomal recessive	1	1	CRB1 (2)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Snowflake vitreoretinal degeneration	1	1	KCNJ13 (2)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Sulfatidosis, juvenile, austin type	1	0	LOC100130207 (1)	0.05263	1.00000	1.162e-3	1.729e-3	
Inherited retinal dystrophy	Nanophthalmos	2	2	CRB1 (2), C1QTNF5 (2)	0.06897	0.16667	8.362e-5	2.563e-4	
Inherited retinal dystrophy	Night blindness, congenital stationary	3	3	PDE6B (8), GNAT1 (7), SLC24A1 (6)	0.06977	0.16667	3.789e-6	2.145e-5	
Inherited retinal dystrophy	Oguchi disease	3	3	PDE6B (2), GNAT1 (2), SLC24A1 (2)	0.10000	0.21429	4.760e-7	3.038e-6	
Inherited retinal dystrophy	Stargardt disease	4	4	LRAT (2), CRB1 (2), SPATA7 (2), KCNV2 (2)	0.09302	0.22222	2.569e-8	1.922e-7	
Inherited retinal dystrophy	Leber congenital amaurosis	6	6	LRAT (8), PDE6B (2), CRB1 (8), SPATA7 (9), NR2E3 (2), KCNJ13 (8)	0.06977	0.33333	1.578e-10	1.454e-9	