

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: 2026-10-09 03:00:13. Filters applied: disease name contains "Patterned macular dystrophy" (5 matching pairs). · Rows: 5 · Generated: 2026-10-09 14:56:41

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Butterfly-shaped pigmentary macular dystrophy	Patterned macular dystrophy	4	4	PRPH2 (5), CTNNA1 (5), OTX2 (3), MAPKAPK3 (3)	0.66667	1.00000	2.135e-15	3.121e-14	
Diffuse gastric and lobular breast cancer syndrome	Patterned macular dystrophy	1	1	CTNNA1 (4)	0.20000	1.00000	2.598e-4	6.505e-4	
Patterned macular dystrophy	PRPH2-related retinopathy	1	1	PRPH2 (5)	0.20000	1.00000	2.598e-4	6.505e-4	
Choroidal dystrophy	Patterned macular dystrophy	1	1	PRPH2 (5)	0.16667	0.50000	5.195e-4	1.060e-3	
Choroidal sclerosis	Patterned macular dystrophy	1	1	PRPH2 (4)	0.16667	0.50000	5.195e-4	1.060e-3	