

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 "Butterfly-shaped pigmentary macular dystrophy" (7 matching pairs). · Rows: 7 · Generated: 2026-10-10 14:18:46

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	
Butterfly-shaped pigmentary macular dystrophy	Vitelliform macular dystrophy	2	1	PRPH2 (4), HTRA1 (1)	0.22222	0.40000	8.433e-7	4.997e-6	
Butterfly-shaped pigmentary macular dystrophy	PRPH2-related retinopathy	1	1	PRPH2 (3)	0.16667	1.00000	3.247e-4	7.709e-4	
Butterfly-shaped pigmentary macular dystrophy	Diffuse gastric and lobular breast cancer syndrome	1	1	CTNNA1 (4)	0.16667	1.00000	3.247e-4	7.709e-4	
Butterfly-shaped pigmentary macular dystrophy	Carasil syndrome	1	1	HTRA1 (3)	0.16667	1.00000	3.247e-4	7.709e-4	
Butterfly-shaped pigmentary macular dystrophy	Malignant peripheral nerve sheath tumor	1	1	HTRA1 (2)	0.14286	0.50000	6.494e-4	1.241e-3	
Butterfly-shaped pigmentary macular dystrophy	Malignant triton tumor	1	1	HTRA1 (2)	0.14286	0.50000	6.494e-4	1.241e-3	