

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Corneal neovascularization" (12 matching pairs). · Rows: 12 · Generated: 2026-10-11 12:59:48

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Corneal neovascularization	Keratitis	13	0	PID1 (1), MSI2 (1), TMEM74 (1), TRHR (1), STK11 (1), ADCY2 (1), PDE1C (1), NT5C1B (1), NLRP1 (1), WSCD1 (1), NT5C1B-RDH14 (1), IL17RE (1)	0.46429	0.72222	9.725e-36	3.614e-34	
Corneal neovascularization	Diabetic angiopathies	3	2	SERPINF1 (2), VEGFA (2), IL1RN (1)	0.06818	0.16667	4.315e-6	2.267e-5	
Corneal neovascularization	Diabetic peripheral angiopathy	3	1	SERPINF1 (1), VEGFA (2), IL1RN (1)	0.06818	0.16667	4.315e-6	2.267e-5	
Corneal neovascularization	Diabetes microvascular complications	2	2	VEGFA (3), IL1RN (3)	0.08696	0.33333	1.931e-5	9.170e-5	
Autoinflammation with arthritis and dyskeratosis	Corneal neovascularization	1	1	NLRP1 (5)	0.05263	1.00000	1.169e-3	1.895e-3	
Congenital central hypothyroidism	Corneal neovascularization	1	1	TRHR (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Corneal intraepithelial dyskeratosis-palmoplantar hyperkeratosis-laryngeal dyskeratosis syndrome	Corneal neovascularization	1	1	NLRP1 (4)	0.05263	1.00000	1.169e-3	1.895e-3	
Choroidal neovascularization	Corneal neovascularization	1	1	VEGFA (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Corneal neovascularization	peutz-jeghers syndrome	1	1	STK11 (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Corneal neovascularization	Intestinal polyposis	1	1	STK11 (3)	0.05000	0.50000	2.337e-3	3.243e-3	
Corneal neovascularization	Ovarian hyperstimulation syndrome	1	0	SERPINF1 (1)	0.05000	0.50000	2.337e-3	3.243e-3	
Corneal neovascularization	Thyroid hormone resistance	1	1	TRHR (3)	0.05000	0.50000	2.337e-3	3.243e-3	