

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 "Pyoderma gangrenosum" (14 matching pairs). · Rows: 14 · Generated: 2026-10-10 20:07:07

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Bullous pyoderma gangrenosum	Pyoderma gangrenosum	1	1	PTPN6 (2)	0.50000	1.00000	6.494e-5	2.331e-4	
Autoinflammatory syndrome with cytopenia, hyperzincemia, and hypercalprotectinemia	Pyogenic arthritis-pyoderma gangrenosum-acne syndrome	1	1	PSTPIP1 (4)	0.33333	1.00000	1.299e-4	3.931e-4	
Bullous pyoderma gangrenosum	Sweet syndrome	1	1	PTPN6 (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Papa syndrome	Pyogenic arthritis-pyoderma gangrenosum-acne syndrome	1	1	PSTPIP1 (5)	0.33333	1.00000	1.299e-4	3.931e-4	
Pyoderma gangrenosum	Sweet syndrome	1	1	PTPN6 (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Antithrombin deficiency	Pyogenic arthritis-pyoderma gangrenosum-acne syndrome	1	1	IL1B (2)	0.20000	0.50000	3.896e-4	8.665e-4	
Myoclonic epilepsy with ragged red fibers	Pyogenic arthritis-pyoderma gangrenosum-acne syndrome	1	1	IL1B (2)	0.20000	0.50000	3.896e-4	8.665e-4	
Cervical disc degenerative disorder	Pyogenic arthritis-pyoderma gangrenosum-acne syndrome	1	1	IL1B (2)	0.12500	0.50000	7.792e-4	1.405e-3	
Bullous pyoderma gangrenosum	Vacterl association	1	1	PTPN6 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Pyoderma gangrenosum	Vacterl association	1	1	PTPN6 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Bullous pyoderma gangrenosum	Heart valve prolapse	1	1	PTPN6 (2)	0.03333	1.00000	1.883e-3	2.762e-3	
Heart valve prolapse	Pyoderma gangrenosum	1	1	PTPN6 (2)	0.03333	1.00000	1.883e-3	2.762e-3	
Bullous pyoderma gangrenosum	Heart valve disease	1	1	PTPN6 (3)	0.02381	1.00000	2.663e-3	3.596e-3	
Heart valve disease	Pyoderma gangrenosum	1	1	PTPN6 (3)	0.02381	1.00000	2.663e-3	3.596e-3	