

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 "interstitial lung disease 1" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 06:04:07

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
interstitial lung disease 1	Obstructive airway disease	1	1	SFTPA1 (2)	0.00990	1.00000	6.494e-3	7.751e-3	
Idiopathic pulmonary fibrosis	interstitial lung disease 1	1	1	SFTPA1 (3)	0.01205	1.00000	5.325e-3	6.490e-3	
Interstitial lung disease	interstitial lung disease 1	1	1	SFTPA1 (5)	0.01493	1.00000	4.286e-3	5.383e-3	
Bronchopulmonary dysplasia	interstitial lung disease 1	1	1	SFTPA1 (2)	0.02174	1.00000	2.922e-3	3.876e-3	
Chromosome 16p11.2 deletion syndrome	interstitial lung disease 1	1	1	SFTPA1 (2)	0.33333	1.00000	1.299e-4	3.931e-4	