

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: 2026-10-13 03:00:13. Filters applied: disease name contains "Respiratory distress with surfactant metabolism deficiency" (5 matching pairs). · Rows: 5 · Generated: 2026-10-13 06:43:58

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Respiratory distress with surfactant metabolism deficiency	SFTPC-related interstitial lung disease	1	1	SFTPC (4)	0.50000	1.00000	6.494e-5	2.331e-4	
Pulmonary surfactant metabolism dysfunction	Respiratory distress with surfactant metabolism deficiency	1	1	SFTPC (7)	0.14286	1.00000	3.897e-4	8.665e-4	
Pulmonary alveolar proteinosis	Respiratory distress with surfactant metabolism deficiency	1	1	SFTPC (3)	0.10000	1.00000	5.845e-4	1.156e-3	
Osteogenesis imperfecta	Respiratory distress with surfactant metabolism deficiency	1	1	SFTPC (3)	0.02500	1.00000	2.533e-3	3.446e-3	
Interstitial lung disease	Respiratory distress with surfactant metabolism deficiency	1	1	SFTPC (5)	0.01493	1.00000	4.286e-3	5.383e-3	