

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 "Junctional epidermolysis bullosa" (19 matching pairs). · Rows: 19 · Generated: 2026-10-10 20:47:15

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Epidermolysis bullosa	Junctional epidermolysis bullosa	8	8	COL7A1 (6), PLEC (8), LAMB3 (6), KRT5 (7), ITGB4 (7), ITGA6 (7), KRT14 (7), KLHL24 (6)	0.25000	0.44444	1.130e-19	2.122e-18	
Junctional epidermolysis bullosa	Other epidermolysis bullosa	6	6	PLEC (3), COL17A1 (7), LAMB3 (6), LAMC2 (6), ITGB4 (6), ITGA6 (6)	0.31579	1.00000	1.004e-18	1.784e-17	
Junctional epidermolysis bullosa	Weber-cockayne syndrome	4	1	KRT5 (1), ITGB4 (6), GALK1 (1), KRT14 (1)	0.21053	1.00000	1.307e-12	1.566e-11	
Amelogenesis imperfecta	Junctional epidermolysis bullosa	4	4	COL7A1 (4), COL17A1 (7), LAMB3 (6), LAMC2 (6)	0.10000	0.22222	1.628e-8	1.283e-7	
Junctional epidermolysis bullosa	Lethal acantholytic epidermolysis bullosa	2	2	JUP (3), DSP (5)	0.10526	1.00000	1.291e-6	7.425e-6	
epidermolysis bullosa, junctional 7, with interstitial lung disease and nephrotic syndrome	Junctional epidermolysis bullosa	1	1	ITGA3 (7)	0.05263	1.00000	1.169e-3	1.895e-3	
Junctional epidermolysis bullosa	PLEC-related muscular dystrophy-epidermolysis bullosa simplex spectrum disorder	1	1	PLEC (4)	0.05263	1.00000	1.169e-3	1.895e-3	
Junctional epidermolysis bullosa	Naxos disease	1	1	JUP (6)	0.05263	1.00000	1.169e-3	1.895e-3	
Junctional epidermolysis bullosa	Laryngo-onycho-cutaneous syndrome	1	1	LAMA3 (7)	0.05263	1.00000	1.169e-3	1.895e-3	
Hearing loss with hypertrophic cardiomyopathy	Junctional epidermolysis bullosa	1	0	MYO6 (1)	0.05263	1.00000	1.169e-3	1.895e-3	
Epidermolysis bullosa simplex	Junctional epidermolysis bullosa	1	1	KRT14 (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Epidermolysa bullosa simplex and limb girdle muscular dystrophy	Junctional epidermolysis bullosa	1	1	PLEC (4)	0.05263	1.00000	1.169e-3	1.895e-3	
Dermatopathia pigmentosa reticularis	Junctional epidermolysis bullosa	1	1	KRT14 (6)	0.05263	1.00000	1.169e-3	1.895e-3	
Congenital phimosis	Junctional epidermolysis bullosa	1	1	ITGA3 (7)	0.05263	1.00000	1.169e-3	1.895e-3	
Congenital nephrotic syndrome, interstitial lung disease, epidermolysis bullosa syndrome	Junctional epidermolysis bullosa	1	1	ITGA3 (7)	0.05263	1.00000	1.169e-3	1.895e-3	
Junctional epidermolysis bullosa	Salivary gland neoplasms	2	2	KRT5 (2), ITGB4 (6)	0.03279	0.11111	1.186e-3	1.923e-3	
Acral peeling skin syndrome	Junctional epidermolysis bullosa	1	1	CSTA (3)	0.05000	0.50000	2.337e-3	3.243e-3	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Junctional epidermolysis bullosa	Sjogren-larsson syndrome	1	0	KRT14 (1)	0.05000	0.50000	2.337e-3	3.243e-3	
Dowling degos disease	Junctional epidermolysis bullosa	1	1	KRT5 (6)	0.04348	0.20000	5.832e-3	7.049e-3	