

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 "Aplasia cutis congenita" (14 matching pairs). · Rows: 14 · Generated: 2026-10-10 02:33:34

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Aplasia cutis congenita	Other epidermolysis bullosa	2	2	PLEC (3), ITGB4 (3)	0.20000	0.40000	1.265e-6	7.290e-6	
Aplasia cutis congenita	Epidermolysis bullosa	2	2	PLEC (8), ITGB4 (5)	0.08000	0.40000	1.767e-5	8.438e-5	
Acces syndrome	Aplasia cutis congenita	1	1	UBA2 (4)	0.16667	1.00000	3.247e-4	7.709e-4	
Aplasia cutis congenita	Chromosome 19q13.11 deletion syndrome	1	1	UBA2 (2)	0.16667	1.00000	3.247e-4	7.709e-4	
Aplasia cutis congenita	Epidermolysa bullosa simplex and limb girdle muscular dystrophy	1	1	PLEC (4)	0.16667	1.00000	3.247e-4	7.709e-4	
Aplasia cutis congenita	PLEC-related muscular dystrophy-epidermolysis bullosa simplex spectrum disorder	1	1	PLEC (3)	0.16667	1.00000	3.247e-4	7.709e-4	
Aplasia cutis congenita with epibulbar dermoids	Arteriovenous malformations	1	1	KRAS (2)	0.20000	0.50000	3.896e-4	8.665e-4	40
Aplasia cutis congenita with epibulbar dermoids	Encephalocraniocutaneous lipomatosis	1	1	KRAS (2)	0.20000	0.50000	3.896e-4	8.665e-4	
Aplasia cutis congenita with epibulbar dermoids	Toriello-carey syndrome	1	1	KRAS (2)	0.20000	0.50000	3.896e-4	8.665e-4	40
Aplasia cutis congenita with epibulbar dermoids	Intracranial arteriovenous malformation	1	1	KRAS (2)	0.16667	0.33333	5.844e-4	1.156e-3	
Aplasia cutis congenita with epibulbar dermoids	Schimmelpenning-feuerstein-mims syndrome	1	1	KRAS (2)	0.16667	0.33333	5.844e-4	1.156e-3	
Aplasia cutis congenita	Galactokinase deficiency	1	1	ITGB4 (3)	0.11111	0.25000	1.298e-3	2.063e-3	
Adams-oliver syndrome	Aplasia cutis congenita	1	1	DLL4 (4)	0.09091	0.20000	1.947e-3	2.828e-3	
Aplasia cutis congenita with epibulbar dermoids	Oocyte maturation defect	1	1	NLRP5 (4)	0.03571	0.33333	4.863e-3	5.987e-3	