

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 "Uv-sensitive syndrome" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 17:47:34

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cockayne syndrome	Uv-sensitive syndrome	4	2	ERCC8 (8), NDUFAF2 (1), ERCC6 (7), PGBD3 (1)	0.50000	0.80000	3.203e-14	4.301e-13	
De sanctis-cacchione syndrome	Uv-sensitive syndrome	2	1	ERCC6 (6), PGBD3 (1)	0.33333	1.00000	8.436e-8	5.938e-7	
Cerebrooculofacioskeletal syndrome	Uv-sensitive syndrome	2	1	ERCC6 (6), PGBD3 (1)	0.20000	0.40000	1.265e-6	7.290e-6	
Arthrogryposis	Uv-sensitive syndrome	1	1	ERCC6 (6)	0.06250	0.20000	3.567e-3	4.593e-3	
Growth disorder	Uv-sensitive syndrome	1	1	ERCC6 (6)	0.02500	0.20000	1.132e-2	1.272e-2	