

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  $\geq 2$  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 "Primary adrenal insufficiency" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 19:59:47

| Disease A                 | Disease B                     | Shared Genes | Corroborated Shared Genes | Shared Gene Names   | Similarity Score | Overlap Coefficient | P-value  | FDR Q-value | Shared Cluster |
|---------------------------|-------------------------------|--------------|---------------------------|---------------------|------------------|---------------------|----------|-------------|----------------|
| Glucocorticoid deficiency | Primary adrenal insufficiency | 2            | 0                         | CUX1 (1), MYL10 (1) | 0.20000          | 1.00000             | 3.037e-7 | 1.951e-6    |                |
| Angioedema                | Primary adrenal insufficiency | 2            | 0                         | CUX1 (1), MYL10 (1) | 0.03448          | 1.00000             | 1.346e-5 | 6.544e-5    |                |
| Keratinocyte carcinoma    | Primary adrenal insufficiency | 2            | 0                         | CUX1 (1), MYL10 (1) | 0.02564          | 1.00000             | 2.468e-5 | 1.158e-4    |                |
| Duane retraction syndrome | Primary adrenal insufficiency | 1            | 1                         | CUX1 (2)            | 0.07143          | 0.50000             | 1.558e-3 | 2.376e-3    |                |
| Carcinogenesis            | Primary adrenal insufficiency | 1            | 1                         | CUX1 (2)            | 0.05000          | 0.50000             | 2.337e-3 | 3.243e-3    |                |