# GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-20 03:00:20. Filters applied: disease name contains "Short stature, developmental delay, and congenital heart defects" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 04:17:52

| Disease A | Disease B | Shared Genes | Corroborated Shared Genes | Shared Gene Names | Similarity Score | Overlap Coefficient | P-value | FDR Q-value | Shared Cluster |
|---|---|---|---|---|---|---|---|---|---|
| Hypertension | Short stature, developmental delay, and congenital heart defects | 1 | 1 | TKT (2) | 0.00087 | 1.00000 | 7.412e-2 | 7.518e-2 | |
| Carcinoma | Short stature, developmental delay, and congenital heart defects | 1 | 1 | TKT (2) | 0.00118 | 1.00000 | 5.462e-2 | 5.616e-2 | |
| Gout | Short stature, developmental delay, and congenital heart defects | 1 | 1 | TKT (2) | 0.00122 | 1.00000 | 5.282e-2 | 5.432e-2 | |
| Hypoxia | Short stature, developmental delay, and congenital heart defects | 1 | 1 | TKT (2) | 0.02941 | 1.00000 | 2.131e-3 | 2.847e-3 | |
| Short stature, developmental delay, and congenital heart defects | Wernicke encephalopathy | 1 | 1 | TKT (3) | 0.50000 | 1.00000 | 6.457e-5 | 1.985e-4 | |