

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: 2026-10-11 03:00:14. Filters applied: disease name contains "glomerulopathy with fibronectin deposits 2" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 14:06:26

| Disease A                                  | Disease B                                             | Shared Genes | Corroborated Shared Genes | Shared Gene Names | Similarity Score | Overlap Coefficient | P-value  | FDR Q-value | Shared Cluster |
|--------------------------------------------|-------------------------------------------------------|--------------|---------------------------|-------------------|------------------|---------------------|----------|-------------|----------------|
| glomerulopathy with fibronectin deposits 2 | spondylometaphyseal dysplasia, 'corner fracture' type | 1            | 0                         | FN1 (1)           | 0.50000          | 1.00000             | 6.494e-5 | 2.331e-4    |                |
| glomerulopathy with fibronectin deposits 2 | Spondylometaphyseal dysplasia                         | 1            | 1                         | FN1 (6)           | 0.06667          | 1.00000             | 9.092e-4 | 1.576e-3    |                |
| glomerulopathy with fibronectin deposits 2 | Urethral obstruction                                  | 1            | 1                         | FN1 (2)           | 0.03704          | 1.00000             | 1.689e-3 | 2.531e-3    |                |
| glomerulopathy with fibronectin deposits 2 | Hypertrophy                                           | 1            | 1                         | FN1 (2)           | 0.02000          | 1.00000             | 3.182e-3 | 4.168e-3    |                |
| Focal glomerulosclerosis                   | glomerulopathy with fibronectin deposits 2            | 1            | 1                         | FN1 (2)           | 0.01724          | 1.00000             | 3.702e-3 | 4.735e-3    |                |