

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 "bardet-biedl syndrome 11" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 15:10:25

| Disease A                                          | Disease B                      | Shared Genes | Corroborated Shared Genes | Shared Gene Names | Similarity Score | Overlap Coefficient | P-value  | FDR Q-value | Shared Cluster |
|----------------------------------------------------|--------------------------------|--------------|---------------------------|-------------------|------------------|---------------------|----------|-------------|----------------|
| bardet-biedl syndrome 11                           | Sarcotubular myopathy          | 1            | 1                         | TRIM32 (2)        | 0.50000          | 1.00000             | 6.494e-5 | 2.331e-4    |                |
| autosomal recessive limb-girdle muscular dystrophy | bardet-biedl syndrome 11       | 1            | 0                         | TRIM32 (1)        | 0.06667          | 1.00000             | 9.092e-4 | 1.576e-3    |                |
| bardet-biedl syndrome 11                           | Limb girdle muscular dystrophy | 1            | 1                         | TRIM32 (5)        | 0.02564          | 1.00000             | 2.468e-3 | 3.371e-3    |                |
| bardet-biedl syndrome 11                           | Muscular dystrophy             | 1            | 1                         | TRIM32 (2)        | 0.01923          | 1.00000             | 3.312e-3 | 4.310e-3    |                |
| Bardet-biedl syndrome                              | bardet-biedl syndrome 11       | 1            | 1                         | TRIM32 (7)        | 0.01667          | 1.00000             | 3.832e-3 | 4.884e-3    |                |