

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 "cardiomyopathy, dilated, 2g" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 01:52:15

| Disease A                   | Disease B                 | Shared Genes | Corroborated Shared Genes | Shared Gene Names | Similarity Score | Overlap Coefficient | P-value  | FDR Q-value | Shared Cluster |
|-----------------------------|---------------------------|--------------|---------------------------|-------------------|------------------|---------------------|----------|-------------|----------------|
| cardiomyopathy, dilated, 2g | Non-organic psychosis     | 1            | 1                         | LMOD2 (2)         | 0.01429          | 1.00000             | 4.481e-3 | 5.604e-3    |                |
| cardiomyopathy, dilated, 2g | Psychotic disorders       | 1            | 1                         | LMOD2 (2)         | 0.00794          | 1.00000             | 8.118e-3 | 9.424e-3    |                |
| cardiomyopathy, dilated, 2g | Polycystic ovary syndrome | 1            | 1                         | LMOD2 (2)         | 0.00439          | 1.00000             | 1.474e-2 | 1.635e-2    |                |
| cardiomyopathy, dilated, 2g | Dilated cardiomyopathy    | 1            | 1                         | LMOD2 (6)         | 0.00365          | 1.00000             | 1.773e-2 | 1.940e-2    |                |
| cardiomyopathy, dilated, 2g | Schizophrenia             | 1            | 1                         | LMOD2 (2)         | 0.00039          | 1.00000             | 1.650e-1 | 1.657e-1    |                |