PantherDB

Web tool: http://software.broadinstitute.org/gsea/index.jsp

Panther Tools: Gene List Analysis tab

    1) Cut/paste DE gene list (upregulated genes or down or both)
        e.g. padj < 0.05, log2FC > 0 (up), baseMean > 5 (expressed)

    2) Select organism (human)

    3) Select statistical overrepresentation test and annotation set
        (GO-slim or pathway DB)

Page 2: As a reference list, select Default whole-genome list: Homo sapiens

Page 3: Default Test Type (Fisher's Exact)

    Default Correction (Calculate FDR)

    Launch Analysis

Results:

    Table showing gene sets (GO terms, pathways) with FDR<0.05
    To see list of genes for each row, click the number under
    Client Text Box Input, column '#' → can send list to file