Instructions

If you find this site useful, please cite:

Zhou, Y., Ghosh, V., Venkatesan, S., Sriram, S., Sobczak, E., Setlur, S., Gunawan, R., Neelamegham, S. "GlycoEnzDB: A database of enzymes involved in human glycosylation." bioRxiv. doi: [insert DOI here].

Enzyme data can be accessed by:

    a) Using the menu on the left to navigate by function or pathway
    b) Typing the HGNC gene name into the search box
    c) Clicking pathway maps shown in the boxes, and then selecting enzyme names in individual figures

For each enzyme, the following data are provided on this site:

    a) Figures from the Essentials of Glycobiology text. If an enzyme appears in multiple figures, you can scroll through them using the selection buttons located just below the displayed figure.
    b) General information: gene names, synonyms, and links to external databases
    c) Generative AI-generated descriptions using Dr. Glyco-GPT
    d) Symbol Nomenclature for Glycans (SNFG) figures depicting enzyme activity
    e) Links to reaction and disease information
    f) Single-cell transcript data
    g) Data related to efficient sgRNA (for CRISPR-related experimental studies)
    h) Putative transcription factor data

For more details, please refer to the full publication cited above