# Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 17, 2025

## Glyco3D

RRID:SCR_003797
Type: Tool

### Proper Citation

Glyco3D (RRID:SCR_003797)

### Resource Information

**URL:** http://glyco3d.cermav.cnrs.fr/

**Proper Citation:** Glyco3D (RRID:SCR_003797)

**Description:** A family of databases covering the 3D features of monos, di, oligo, polysaccharides, glycosyltransferases, lectins, monoclonal antibodies and glycosaminoglycan-binding proteins. Other databases are also made available that completes the picture of glycan 3D structure decoding. that are made freely available to the scientific community. A search engine has been developed that scans the full content of all the data bases for queries related to sequential information of the carbohydrates or other related descriptors. This database ensemble offers a unique opportunity to characterize the 3D features that a given oligosaccharide can assume in different environments.

**Abbreviations:** Glyco3D

**Resource Type:** database, data or information resource

**Defining Citation:** PMID:25753716

**Keywords:** carbohydrate, monosaccharide, disaccharide, oligosaccharide, polysaccharide, glycosyltransferase, lectin, monoclonal antibody, glycosaminoglycan-binding protein

**Funding:**

**Availability:** Acknowledgement requested, Free, Public

**Resource Name:** Glyco3D

**Resource ID:** SCR_003797

**Alternate IDs:** nlx_158094

**Record Creation Time:** 20220129T080221+0000

**Record Last Update:** 20250412T054859+0000

## Ratings and Alerts

No rating or validation information has been found for Glyco3D.

No alerts have been found for Glyco3D.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 7 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.


Dauphin BG, et al. (2024) TBL38 atypical homogalacturonan-acetylesterase activity and cell wall microdomain localization in Arabidopsis seed mucilage secretory cells. iScience, 27(5), 109666.

Bonnardel F, et al. (2019) UniLectin3D, a database of carbohydrate binding proteins with curated information on 3D structures and interacting ligands. Nucleic acids research, 47(D1), D1236.

Pérez S, et al. (2017) Glycoscience@Synchrotron: Synchrotron radiation applied to structural glycoscience. Beilstein journal of organic chemistry, 13, 1145.

Mariethoz J, et al. (2016) SugarBindDB, a resource of glycan-mediated host-pathogen interactions. Nucleic acids research, 44(D1), D1243.

Sommer R, et al. (2016) The virulence factor LecB varies in clinical isolates: consequences for ligand binding and drug discovery. Chemical science, 7(8), 4990.

Jardine JG, et al. (2016) Minimally Mutated HIV-1 Broadly Neutralizing Antibodies to Guide Reductionist Vaccine Design. PLoS pathogens, 12(8), e1005815.

Hassan MA, et al. (2015) Mushroom lectins: specificity, structure and bioactivity relevant to human disease. International journal of molecular sciences, 16(4), 7802.