

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 31, 2026

Glyco3D

RRID:SCR_003797

Type: Tool

Proper Citation

Glyco3D (RRID:SCR_003797)

Resource Information

URL: <http://glyco3d.cermav.cnrs.fr/>

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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: data or information resource, database

Defining Citation: [PMID:25753716](#)

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

Resource Name: Glyco3D

Resource ID: SCR_003797

Alternate IDs: nlx_158094

Record Creation Time: 20220129T080221+0000

Record Last Update: 20260729T044051+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 [PRECISE-TBI](#) .

Dauphin BG, et al. (2024) TBL38 atypical homogalacturonan-acetylsterase 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.

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

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.

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

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.