

Resource Summary Report

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GLYCAM-Web

RRID:SCR_018260

Type: Tool

Proper Citation

GLYCAM-Web (RRID:SCR_018260)

Resource Information

URL: <http://glycam.org/>

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Description: Web provides tools for modeling 3D structures of molecules and complexes containing carbohydrates including oligosaccharide conformation modeling and glycoprotein 3D structure modeling. Used to simplify prediction of three dimensional structures of carbohydrates and macromolecular structures involving carbohydrates.

Synonyms: GLYCAM

Resource Type: software resource, topical portal, data access protocol, web service, data or information resource, portal

Keywords: Glycosylated SARS-Cov-2 Spike protein, SARS-Cov-2, SARS-Cov-2 Spike protein, spike protein, 3D structure, carbohydrate, oligosaccharide conformation, modeling, structure modeling, data

Related Condition: COVID-19, COVID19

Funding: NIH

Availability: Free, Freely available

Resource Name: GLYCAM-Web

Resource ID: SCR_018260

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260807T042916+0000

Ratings and Alerts

No rating or validation information has been found for GLYCAM-Web.

No alerts have been found for GLYCAM-Web.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 134 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Caballero-Méndez LC, et al. (2026) Evaluation of Colombian silk fibroin hydrogels functionalized with recombinant LSEctin for intervertebral disc tissue engineering. PloS one, 21(5), e0349634.

Zhang W, et al. (2026) Bisecting ?GlcNAc: MA'AT analysis of 13C-labeled oligosaccharides containing ?GlcNAc-(1?4)-?Man O-glycosidic linkages. The Journal of biological chemistry, 302(3), 111108.

Castro-Amorim J, et al. (2026) Mechanism of Hyaluronic Acid Hydrolysis Catalyzed by Snake Venom Hyaluronidase. Journal of chemical information and modeling, 66(7), 4033.

Dolinska MB, et al. (2026) Insights from Computational Dynamic Active Site Mapping into Substrate Recognition and Mutation-Induced Dysfunction in Human Tyrosinase. International journal of molecular sciences, 27(4).

Moriyama S, et al. (2026) Potent efficacy of an NA-targeting antibody against a broad spectrum of H5N1 influenza viruses. Nature communications, 17(1).

Zhang L, et al. (2026) Isolation and characterization of a broad-spectrum Salmonella phage targeting featural foodborne serotypes. Frontiers in microbiology, 17, 1827076.

Peng B, et al. (2026) A Heparin-Functionalized Scaffold with HB-EGF Immobilization for Tissue Engineering. Advanced healthcare materials, 15(8), e02771.

Henry S, et al. (2026) Revealing and quantifying polyclonal anti-A, B specificity in ABO histo-blood groups. Transfusion, 66(5), 965.

Zhang M, et al. (2026) Assembly of resistant starch type 5 in two amylose matrices: effects of fatty acid chain length and matrix background on structural characteristics. Food chemistry: X, 36, 103942.

Djureinovic D, et al. (2026) CD40 agonism in renal cell carcinoma enhances immune checkpoint activity through myeloid cells. iScience, 29(7), 116527.

Aggio JB, et al. (2026) Mouse TAPBPR shows functional similarity to human TAPBPR in shaping the MHC-I immunopeptidome. Frontiers in immunology, 17, 1756668.

Yadav N, et al. (2026) Leveraging Glycan-Glycan Interactions to Tune the Conformation of Glycan Hairpins and Build Rigid 3D Architectures. *Journal of the American Chemical Society*, 148(17), 18433.

Zhang N, et al. (2026) Time-resolved multiomics profiling reveals chromatin O-GlcNAc modification promotes senescence-associated transcriptional program. *Nature communications*, 17(1), 1406.

Ren Z, et al. (2026) Structural basis of fungal β -1,3-glucan synthase inhibition by caspofungin. *Nature*, 654(8118), 547.

Cinar MS, et al. (2026) Molecular mechanisms of immune evasion by host protein glycosylation of a bacterial immunogen used in nucleic acid vaccines. *The Journal of biological chemistry*, 302(5), 111423.

Kim S, et al. (2025) Glycoscience data content in the NCBI Glycans and PubChem. *Analytical and bioanalytical chemistry*, 417(5), 865.

Ejby Hansen M, et al. (2025) Uptake of fucosylated type I human milk oligosaccharide blocks by *Bifidobacterium longum* subsp. *infantis*. *mBio*, 16(8), e0036825.

Bakshani CR, et al. (2025) Carbohydrate-active enzymes from *Akkermansia muciniphila* break down mucin O-glycans to completion. *Nature microbiology*, 10(2), 585.

Cinar MS, et al. (2025) Molecular mechanisms of immune evasion by host protein glycosylation of a bacterial immunogen used in nucleic acid vaccines. *bioRxiv* : the preprint server for biology.

Grant OC, et al. (2025) Generating 3D Models of Carbohydrates with GLYCAM-Web. *bioRxiv* : the preprint server for biology.