

Resource Summary Report

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Functional Glycomics Research

RRID:SCR_013337

Type: Tool

Proper Citation

Functional Glycomics Research (RRID:SCR_013337)

Resource Information

URL: <http://www.functionalglycomics.org>

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Description: This Gateway is a collaboration between the Consortium for Functional Glycomics (CFG) and Nature Publishing Group (NPG), providing a comprehensive resource for functional glycomics research. Use this site to stay up-to-date on glycomics news, request CFG resources, and search databases of glycan-binding proteins, glycan structures, and glycosyltransferases. The Functional Glycomics Update provides a one-stop overview of the latest research in glycobiology for specialists and non-specialists alike. It is updated monthly to bring you the latest news and selected highlights from Nature journals. In addition, it will provide two featured articles a month on the most relevant advances in the field published in NPG and other top journals. By collating new articles into a key worded research library, we hope to provide a continuously updated and broad overview of the field. Sponsor. The CFG is a large international research initiative funded by NIGMS to elucidate the roles of carbohydrate-protein interactions in cell communication at the cell surface.

Synonyms: Functional Glycomics

Resource Type: topical portal, data or information resource, portal

Keywords: FASEB list

Resource Name: Functional Glycomics Research

Resource ID: SCR_013337

Alternate IDs: nif-0000-30382

Record Creation Time: 20220129T080315+0000

Record Last Update: 20260731T042855+0000

Ratings and Alerts

No rating or validation information has been found for Functional Glycomics Research.

No alerts have been found for Functional Glycomics Research.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 237 mentions in open access literature.

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

Goli M, et al. (2025) Exploring the Impact of Mitoquinone Supplementation on Glycan Profiles in a Repeated Mild Traumatic Brain Injury Mouse Model. *Neurotrauma reports*, 6(1), 525.

Nuschy L, et al. (2025) Enzymatic tailoring of anionic glycans for characterizing lectin and antibody specificities in a microarray format. *The Journal of biological chemistry*, 301(12), 110915.

Benjamin SV, et al. (2025) Application of a human lectin array to rapid in vitro screening of sugar-based epitopes that can be used as targeting tags for therapeutics. *Glycobiology*, 35(4).

Izadi S, et al. (2024) Plant-derived Durvalumab variants show efficient PD-1/PD-L1 blockade and therapeutically favourable FcR binding. *Plant biotechnology journal*, 22(5), 1224.

Edvardsen PKT, et al. (2024) Exploring roles of the chitinase ChiC in modulating *Pseudomonas aeruginosa* virulence phenotypes. *Microbiology spectrum*, 12(7), e0054624.

Stadlmann J, et al. (2024) Non-targeted isomer-sensitive N-glycome analysis reveals new layers of organ-specific diversity in mice. *Research square*.

Bloch Y, et al. (2024) The crystal structure of Nictaba reveals its carbohydrate-binding properties and a new lectin dimerization mode. *Glycobiology*, 34(12).

Kogelmann B, et al. (2024) A genome-edited *N. benthamiana* line for industrial-scale production of recombinant glycoproteins with targeted N-glycosylation. *Biotechnology journal*, 19(1), e2300323.

Heimburg-Molinaro J, et al. (2024) Insights Into Glycobiology and the Protein-Glycan Interactome Using Glycan Microarray Technologies. *Molecular & cellular proteomics : MCP*, 23(11), 100844.

- Shilova N, et al. (2024) Some Human Anti-Glycan Antibodies Lack the Ability to Activate the Complement System. *Antibodies (Basel, Switzerland)*, 13(4).
- Beihammer G, et al. (2023) *Pseudomonas syringae* DC3000 infection increases glucosylated N-glycans in *Arabidopsis thaliana*. *Glycoconjugate journal*, 40(1), 97.
- Sun L, et al. (2023) Codon optimization regulates IgG3 and IgM expression and glycosylation in *N. benthamiana*. *Frontiers in bioengineering and biotechnology*, 11, 1320586.
- Simplicien M, et al. (2023) Plant lectins as versatile tools to fight coronavirus outbreaks. *Glycoconjugate journal*, 40(1), 109.
- Kogelmann B, et al. (2023) In planta expression of active bacterial GDP-6-deoxy-d-lyxo-4-hexulose reductase for glycan modulation. *Plant biotechnology journal*, 21(10), 1929.
- Schnider B, et al. (2023) BiotechLec: an interactive guide of commercial lectins for glycobiology and biomedical research applications. *Glycobiology*, 33(9), 684.
- Saunders MJ, et al. (2023) Simplifying the detection and monitoring of protein glycosylation during in vitro glycoengineering. *Scientific reports*, 13(1), 567.
- Jugler C, et al. (2023) A novel plant-made monoclonal antibody enhances the synergetic potency of an antibody cocktail against the SARS-CoV-2 Omicron variant. *Plant biotechnology journal*, 21(3), 549.
- Yang M, et al. (2023) Plant-Produced Anti-Zika Virus Monoclonal Antibody Glycovariant Exhibits Abrogated Antibody-Dependent Enhancement of Infection. *Vaccines*, 11(4).
- Doud EH, et al. (2023) Mass Spectrometry-Based Glycoproteomic Workflows for Cancer Biomarker Discovery. *Technology in cancer research & treatment*, 22, 15330338221148811.
- Lin CL, et al. (2023) Chemoenzymatic synthesis of genetically-encoded multivalent liquid N-glycan arrays. *Nature communications*, 14(1), 5237.