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 kravitz2 .

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.