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: data or information resource, portal, topical 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: 20260829T182438+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 256 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Li H, et al. (2026) LeGenD: High-throughput N-glycan profiling using explainable AI and lectin profiling. The Journal of biological chemistry, 302(7), 113234.

Messina A, et al. (2026) IgG Glycosylation Analysis in Patients with Ring14 Syndrome Unveils Novel Pathomechanisms and New Therapy Perspectives. Biomolecules, 16(6).

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

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.

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.

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).

Li Q, et al. (2025) DC-SIGN (CD209)-mediated interactions between bacteria, lung cancer tissues, and macrophages promote cancer metastasis. Infectious agents and cancer, 20(1), 40.

Helm J, et al. (2024) Non-targeted N-glycome profiling reveals multiple layers of organ-specific diversity in mice. Nature communications, 15(1), 9725.

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).

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

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.

Shilova N, et al. (2024) Some Human Anti-Glycan Antibodies Lack the Ability to Activate the Complement System. Antibodies (Basel, Switzerland), 13(4).

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.

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.

Beihammer G, et al. (2023) Pseudomonas syringae DC3000 infection increases glucosylated N-glycans in Arabidopsis thaliana. Glycoconjugate journal, 40(1), 97.

Ruocco V, et al. (2023) Impact of mutations on the plant-based production of recombinant SARS-CoV-2 RBDs. Frontiers in plant science, 14, 1275228.

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.

Aparna GM, et al. (2023) Recent Progress in Development and Application of DNA, Protein, Peptide, Glycan, Antibody, and Aptamer Microarrays. Biomolecules, 13(4).