

Resource Summary Report

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LaCyTools

RRID:SCR_024525

Type: Tool

Proper Citation

LaCyTools (RRID:SCR_024525)

Resource Information

URL: <https://github.com/Tarskin/LaCyTools>

Proper Citation: LaCyTools (RRID:SCR_024525)

Description: Software high throughput data extraction package for LC-MS data. Targeted Liquid Chromatography-Mass Spectrometry data processing package for relative quantitation of glycopeptides.

Resource Type: software toolkit, software resource

Defining Citation: [PMID:27267458](#)

Keywords: Targeted Liquid Chromatography, Mass Spectrometry Data Processing, relative quantitation of glycopeptides,

Availability: Free, Available for download, Freely available

Resource Name: LaCyTools

Resource ID: SCR_024525

License: Apache v2.0

Record Creation Time: 20231002T161337+0000

Record Last Update: 20260810T040829+0000

Ratings and Alerts

No rating or validation information has been found for LaCyTools.

No alerts have been found for LaCyTools.

Data and Source Information

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Elgood-Hunt G, et al. (2026) Total plasma N-glycomic patterns of COVID-19 disease. Glycoconjugate journal, 43(1), 9.

Bhatt JS, et al. (2026) Atomistic scattering modeling of the solution structure of human dimeric IgA1 reveals a structural and mechanistic basis for IgA nephropathy. The Journal of biological chemistry, 302(7), 113156.

van Tol BDM, et al. (2025) Comprehensive Immunoglobulin G, A, and M Glycopeptide Profiling for Large-Scale Biomedical Research. Molecular & cellular proteomics : MCP, 24(3), 100928.

Biersteker R, et al. (2025) Modulation of immunoglobulin G oligomerization by variable domain glycans: A mechanism to regulate complement activation. PNAS nexus, 4(7), pgaf216.

Falck D, et al. (2025) IgA displays site- and subclass-specific glycoform differences despite equal glycoenzyme expression. Cell communication and signaling : CCS, 23(1), 92.

Pribi? T, et al. (2025) A 2-year calorie restriction intervention may reduce glycomic biological age biomarkers - a pilot study. npj aging, 11(1), 71.

Lakerveld AJ, et al. (2025) Decreased Fc fucosylation aligns with enhanced RSV-specific antibody functionality in adults compared to young children. Communications medicine, 5(1), 540.

Kloet MS, et al. (2025) Identification of RNF114 as ADPr-Ub reader through non-hydrolysable ubiquitinated ADP-ribose. Nature communications, 16(1), 6319.

Kissel T, et al. (2024) N-linked Fc glycosylation is not required for IgG-B-cell receptor function in a GC-derived B-cell line. Nature communications, 15(1), 393.

Gijze S, et al. (2024) Simultaneous Protein Quantitation and Glycosylation Profiling of Antigen-Specific Immunoglobulin G1 in Large Clinical Studies. Journal of proteome research, 23(12), 5600.

Pribi? T, et al. (2024) A 2-year calorie restriction intervention reduces glycomic biological age biomarkers. medRxiv : the preprint server for health sciences.

de Taeye SW, et al. (2024) Afucosylated broadly neutralizing antibodies enhance clearance of HIV-1 infected cells through cell-mediated killing. Communications biology, 7(1), 964.

van Tol BDM, et al. (2023) Neutron-encoded diubiquitins to profile linkage selectivity of deubiquitinating enzymes. *Nature communications*, 14(1), 1661.

Kissel T, et al. (2022) Surface Ig variable domain glycosylation affects autoantigen binding and acts as threshold for human autoreactive B cell activation. *Science advances*, 8(6), eabm1759.

Falck D, et al. (2022) Clearance of therapeutic antibody glycoforms after subcutaneous and intravenous injection in a porcine model. *mAbs*, 14(1), 2145929.

Falck D, et al. (2021) Glycoform-resolved pharmacokinetic studies in a rat model employing glycoengineered variants of a therapeutic monoclonal antibody. *mAbs*, 13(1), 1865596.

Werner A, et al. (2021) Targeting B cells in the pre-phase of systemic autoimmunity globally interferes with autoimmune pathology. *iScience*, 24(9), 103076.

Cheng HD, et al. (2020) IgG Fc glycosylation as an axis of humoral immunity in childhood. *The Journal of allergy and clinical immunology*, 145(2), 710.

Sénard T, et al. (2020) MS-Based Allotype-Specific Analysis of Polyclonal IgG-Fc N-Glycosylation. *Frontiers in immunology*, 11, 2049.

Steffen U, et al. (2020) IgA subclasses have different effector functions associated with distinct glycosylation profiles. *Nature communications*, 11(1), 120.