

Resource Summary Report

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sumo

RRID:SCR_001572

Type: Tool

Proper Citation

sumo (RRID:SCR_001572)

Resource Information

URL: <http://www.glycosciences.de/tools/sumo/>

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Description: Service that searches carbohydrate structures for motifs commonly used for carbohydrate classification, like N- and O-glycan cores, Lewis antigens, etc. Note: Sumo is currently under construction. Motif searches are a frequently used tool in proteomics. For carbohydrate structures, there are also many motifs classified in the literature, e.g. the Lewis antigens or the diverse O-glycan core structures. Sumo is a tool to locate such motifs in a carbohydrate structure given in LINUCS or in IUPAC nomenclature., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Abbreviations: sumo

Synonyms: sumo: SUGar MOTif search, SUGar MOTif search

Resource Type: analysis service resource, service resource, data analysis service, production service resource

Keywords: carbohydrate, structure, carbohydrate structure, motif, carbohydrate classification, sugar, iupac, nomenclature, notation

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: sumo

Resource ID: SCR_001572

Alternate IDs: nlx_152885

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260728T043114+0000

Ratings and Alerts

No rating or validation information has been found for sumo.

No alerts have been found for sumo.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 215 mentions in open access literature.

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

Vishina A, et al. (2025) MFe₆ X 4 system (M = Mg, Sc, Zr; X = Al, Si, P, Ga, Ge, In, Sn, Sb) as possible 'gap' magnets. Science and technology of advanced materials, 26(1), 2527024.

Knottenbelt W, et al. (2025) CoxKAN: Kolmogorov-Arnold networks for interpretable, high-performance survival analysis. Bioinformatics (Oxford, England), 41(8).

Evers A, et al. (2024) Engineering hydrophobicity and manufacturability for optimized biparatopic antibody-drug conjugates targeting c-MET. mAbs, 16(1), 2302386.

Malik Z, et al. (2024) Observation and enhancement through alkali metal doping of p-type conductivity in the layered oxyselenides Sr₂ZnO₂Cu₂Se₂ and Ba₂Zn_{1-x}O_{2-x}Cu₂Se₂. Journal of materials chemistry. C, 12(43), 17574.

Nishikawa S, et al. (2024) Multimolecular Competition Effect as a Modulator of Protein Localization and Biochemical Networks in Cell-Size Space. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(6), e2308030.

Cabri G, et al. (2024) Learn to Bet: Using Reinforcement Learning to Improve Vehicle Bids in Auction-Based Smart Intersections. Sensors (Basel, Switzerland), 24(4).

Cai C, et al. (2024) Adaptive urban traffic signal control based on enhanced deep reinforcement learning. Scientific reports, 14(1), 14116.

Tullius MV, et al. (2024) LVS γ capB-vectored multiantigenic melioidosis vaccines protect against lethal respiratory Burkholderia pseudomallei challenge in highly sensitive BALB/c mice. mBio, 15(4), e0018624.

Safavi-Naini SAA, et al. (2024) Drivers' behavior confronting fixed and point-to-point speed enforcement camera: agent-based simulation and translation to crash relative risk change. Scientific reports, 14(1), 1863.

Bartlett TM, et al. (2024) FacZ is a GpsB-interacting protein that prevents aberrant division-site placement in Staphylococcus aureus. Nature microbiology, 9(3), 801.

Novikov SA, et al. (2024) Application of Voronoi Polyhedra for Analysis of Electronic Dimensionality in Emissive Halide Materials. *Journal of the American Chemical Society*, 146(51), 35449.

Chunkruea P, et al. (2024) Prenylation of aromatic amino acids and plant phenolics by an aromatic prenyltransferase from *Rasamsonia emersonii*. *Applied microbiology and biotechnology*, 108(1), 421.

Shobade SO, et al. (2024) Plant root associated chitinases: structures and functions. *Frontiers in plant science*, 15, 1344142.

Iribarren PA, et al. (2024) Depolymerization of SUMO chains induces slender to stumpy differentiation in *T. brucei* bloodstream parasites. *PLoS pathogens*, 20(4), e1012166.

Moin M, et al. (2024) Exploration of the pearl millet phospholipase gene family to identify potential candidates for grain quality traits. *BMC genomics*, 25(1), 581.

Singer A, et al. (2024) Elaboration of the Homer1 recognition landscape reveals incomplete divergence of paralogous EVH1 domains. *Protein science : a publication of the Protein Society*, 33(8), e5094.

Truong NH, et al. (2024) Sequence and structure analyses of lytic polysaccharide monooxygenases mined from metagenomic DNA of humus samples around white-rot fungi in Cuc Phuong tropical forest, Vietnam. *PeerJ*, 12, e17553.

Kiss L, et al. (2023) Trim-Away ubiquitinates and degrades lysine-less and N-terminally acetylated substrates. *Nature communications*, 14(1), 2160.

Zheng G, et al. (2023) Perimeter Control Method of Road Traffic Regions Based on MFD-DDPG. *Sensors (Basel, Switzerland)*, 23(18).

Thompson RA, et al. (2023) No carbon storage in growth-limited trees in a semi-arid woodland. *Nature communications*, 14(1), 1959.