# **Resource Summary Report**

Generated by dkNET on May 20, 2025

## 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.

Abbreviations: sumo

Synonyms: sumo: SUgar MOtif search, SUgar MOtif search

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

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

**Funding:** 

Resource Name: sumo

Resource ID: SCR\_001572

Alternate IDs: nlx 152885

**Record Creation Time:** 20220129T080208+0000

**Record Last Update:** 20250519T204621+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 213 mentions in open access literature.

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

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 Ba2Zn1-x O2-x Cu2Se2. Journal of materials chemistry. C, 12(43), 17574.

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

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.

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

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).

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.

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.

Chunkrua 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.

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.

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.

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.

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.

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).

Senoo A, et al. (2023) Modulation of a conformational ensemble by a small molecule that inhibits key protein-protein interactions involved in cell adhesion. Protein science: a publication of the Protein Society, 32(9), e4744.

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

Barik RK, et al. (2023) High throughput calculations for a dataset of bilayer materials. Scientific data, 10(1), 232.