Resource Summary Report

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GlyProt

RRID:SCR_001560
Type: Tool

Proper Citation

GlyProt (RRID:SCR_001560)

Resource Information

URL: http://www.glycosciences.de/modeling/glyprot/

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Description: Web-based tool that enables meaningful N-glycan conformations to be attached to all the spatially accessible potential N-glycosylation sites of a known three-dimensional (3D) protein structure. The 3D structure of protein is required as input. Potential N-glysylations site are automatically detected. The attached glycan are constructed with SWEET-II, http://www.glycosciences.de/modeling/sweet2/doc/index.php

Abbreviations: GlyProt

Synonyms: GlyProt - In Silico Glycosylation of Proteins

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

Defining Citation: PMID:15980456

Keywords: glycosylation, protein, in silico, 3d structure, protein structure, glycan, n-glycan, glycoprotein, bio.tools

Funding: DFG

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: GlyProt

Resource ID: SCR_001560

Alternate IDs: biotools:glyprot, nlx_152875

Alternate URLs: https://bio.tools/glyprot

Old URLs: http://www.glycosciences.de/glyprot/

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260803T040305+0000

Ratings and Alerts

No rating or validation information has been found for GlyProt.

No alerts have been found for GlyProt.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

George S, et al. (2025) Evolutionary dynamics and molecular epidemiology of H1N1 pandemic 2009 influenza A viruses across swine farms in Denmark. Virus evolution, 11(1), veaf014.

Nishio S, et al. (2024) ZP2 cleavage blocks polyspermy by modulating the architecture of the egg coat. Cell, 187(6), 1440.

Moeini S, et al. (2023) Phylogenetic analysis and docking study of neuraminidase gene of influenza A/H1N1 viruses circulating in Iran from 2010 to 2019. Virus research, 334, 199182.

Liu Y, et al. (2023) Glycosylation Contributes to Thermostability and Proteolytic Resistance of rFIP-nha (Nectria haematococca). Molecules (Basel, Switzerland), 28(17).

Fresquet M, et al. (2022) Structure of PLA2R reveals presentation of the dominant membranous nephropathy epitope and an immunogenic patch. Proceedings of the National Academy of Sciences of the United States of America, 119(29), e2202209119.

Zhang H, et al. (2022) A conserved asparagine residue in the inner surface of BRI1 superhelix is essential for protein native conformation. Biochemical and biophysical research communications, 615, 49.

Yrjänäinen A, et al. (2022) Biochemical and Biophysical Characterization of Carbonic Anhydrase VI from Human Milk and Saliva. The protein journal, 41(4-5), 489.

Baek DS, et al. (2022) A highly-specific fully-human antibody and CAR-T cells targeting CD66e/CEACAM5 are cytotoxic for CD66e-expressing cancer cells in vitro and in vivo. Cancer letters, 525, 97.

Montoya V, et al. (2021) Variable routes to genomic and host adaptation among coronaviruses. Journal of evolutionary biology, 34(6), 924.

Mielke D, et al. (2021) ADCC-mediating non-neutralizing antibodies can exert immune pressure in early HIV-1 infection. PLoS pathogens, 17(11), e1010046.

Sanchez D, et al. (2021) The Lipocalin Apolipoprotein D Functional Portrait: A Systematic Review. Frontiers in physiology, 12, 738991.

Duerr R, et al. (2021) SARS-CoV-2 Portrayed against HIV: Contrary Viral Strategies in Similar Disguise. Microorganisms, 9(7).

Seitz C, et al. (2020) Multiscale Simulations Examining Glycan Shield Effects on Drug Binding to Influenza Neuraminidase. Biophysical journal, 119(11), 2275.

Benedetti S, et al. (2020) Lupinus albus ?-Conglutin, a Protein Structurally Related to GH12 Xyloglucan-Specific Endo-Glucanase Inhibitor Proteins (XEGIPs), Shows Inhibitory Activity against GH2 ?-Mannosidase. International journal of molecular sciences, 21(19).

Wintjens R, et al. (2020) Impact of glycan cloud on the B-cell epitope prediction of SARS-CoV-2 Spike protein. NPJ vaccines, 5, 81.

Kawakami C, et al. (2019) Genetic and antigenic characterisation of influenza A(H3N2) viruses isolated in Yokohama during the 2016/17 and 2017/18 influenza seasons. Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin, 24(6).

Hill LA, et al. (2019) N-Glycosylation influences human corticosteroid-binding globulin measurements. Endocrine connections, 8(8), 1136.

Mohebbi A, et al. (2019) Molecular epidemiology of the hemagglutinin gene of prevalent influenza virus A/H1N1/pdm09 among patient in Iran. Virus research, 259, 38.

Gu J, et al. (2018) Escape of Hepatitis C Virus from Epitope I Neutralization Increases Sensitivity of Other Neutralization Epitopes. Journal of virology, 92(9).

Lee CY, et al. (2018) Acquisition of Innate Inhibitor Resistance and Mammalian Pathogenicity During Egg Adaptation by the H9N2 Avian Influenza Virus. Frontiers in microbiology, 9, 1939.