Resource Summary Report

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YinOYang

RRID:SCR_001605
Type: Tool

Proper Citation

YinOYang (RRID:SCR_001605)

Resource Information

URL: https://services.healthtech.dtu.dk/services/YinOYang-1.2/

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Description: Server that produces neural network predictions for O-beta-GlcNAc attachment sites in eukaryotic protein sequences. This server can also use NetPhos, to mark possible phosphorylated sites and hence identify Yin-Yang sites. YinOYang 1.2 is available as a stand-alone software package, with the same functionality. Ready-to-ship packages exist for the most common UNIX platforms.

Abbreviations: YinOYang

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

Defining Citation: PMID:11928486

Keywords: neural network, prediction, o-beta-glcnac attachment site, protein sequence, protein, sequence, glycosylation site, proteome, post-translational modification, protein function, glycoprotein, bio.tools

Funding: Danish National Research Foundation

Availability: Free, Freely available

Resource Name: YinOYang

Resource ID: SCR_001605

Alternate IDs: nlx_153865, biotools:yinoyang

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

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260801T190145+0000

Ratings and Alerts

No rating or validation information has been found for YinOYang.

No alerts have been found for YinOYang.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 111 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Wang P, et al. (2025) NcSWP8, a New Spore Wall Protein, Interacts with Polar Tube Proteins in the Parasitic Microsporidia Vairimorpha (Nosema) ceranae. Microorganisms, 13(1).

van der Leest EC, et al. (2025) Genotype-Phenotype Correlations, Treatment, and Prognosis of Children With Early-Onset (Neonatal) Marfan Syndrome. Clinical genetics, 108(2), 134.

Fang S, et al. (2025) O-GlcNAcylation of glutaminase isoform KGA inhibits ferroptosis through activation of glutaminolysis in hepatoblastoma. Cell death discovery, 11(1), 160.

Xu R, et al. (2025) Cryptosporidium exports a mucin glycoprotein into the microvilli of intestinal epithelium. Virulence, 16(1), 2553780.

Wang Y, et al. (2025) Mettl7a alleviated bone loss in osteoporosis mice by targeting the O-GlcNAcylation of Bsp via m6A methylation. Stem cells translational medicine, 14(7).

da Cruz Freire JE, et al. (2025) Molecular and Immunological Properties of a Chimeric Glycosyl Hydrolase 18 Based on Immunoinformatics Approaches: A Design of a New Anti-Leishmania Vaccine. ACS pharmacology & translational science, 8(1), 78.

Wang Z, et al. (2025) O-GlcNAcylation Mediated by OGA Activates NEK7/NLRP3 Pathway to Promote Pyroptosis in Parkinson's Disease. Journal of cellular and molecular medicine, 29(19), e70874.

Hui Y, et al. (2024) O-GlcNAcylation of circadian clock protein Bmal1 impairs cognitive function in diabetic mice. The EMBO journal, 43(22), 5667.

Jiang X, et al. (2024) Cloning and Identification of Common Carp (Cyprinus carpio) PI3KC3 and Its Expression in Response to CyHV-3 Infection. Current issues in molecular biology, 46(10), 11714.

Hui Y, et al. (2024) High glucose impairs cognitive function through inducing mitochondrial calcium overload in Treg cells. iScience, 27(1), 108689.

Wang D, et al. (2024) The circZEB1/miR-337-3p/OGT axis mediates angiogenesis and metastasis via O-GlcNAcylation and up-regulating YBX1 in breast cancer. Heliyon, 10(14), e34079.

You C, et al. (2024) O-GlcNAcylation mediates Wnt-stimulated bone formation by rewiring aerobic glycolysis. EMBO reports, 25(10), 4465.

Zhang HR, et al. (2024) The GFPT2-O-GlcNAcylation-YBX1 axis promotes IL-18 secretion to regulate the tumor immune microenvironment in pancreatic cancer. Cell death & disease, 15(4), 244.

Xu S, et al. (2024) The Function of Different Subunits of the Molecular Chaperone CCT in the Microsporidium Nosema bombycis: NbCCT? Interacts with NbCCT?. Journal of fungi (Basel, Switzerland), 10(3).

Iqbal S, et al. (2023) An Integrated Computational Analysis of High-Risk SNPs in Angiopoietin-like Proteins (ANGPTL3 and ANGPTL8) Reveals Perturbed Protein Dynamics Associated with Cancer. Molecules (Basel, Switzerland), 28(12).

Yoshida M, et al. (2022) O-GlcNAcylation of myocyte-specific enhancer factor 2D negatively regulates insulin secretion from pancreatic ?-cells. Biochemical and biophysical research communications, 605, 90.

Mathew MP, et al. (2022) Nutrient-responsive O-GlcNAcylation dynamically modulates the secretion of glycan-binding protein galectin 3. The Journal of biological chemistry, 298(3), 101743.

Pang Q, et al. (2022) Camelization of a murine single-domain antibody against aflatoxin B1 and its antigen-binding analysis. Mycotoxin research, 38(1), 51.

Zhang W, et al. (2022) A novel effector, CsSp1, from Bipolaris sorokiniana, is essential for colonization in wheat and is also involved in triggering host immunity. Molecular plant pathology, 23(2), 218.

Li X, et al. (2022) Identification of the fibroin of Stigmaeopsis nanjingensis by a nanocarrier-based transdermal dsRNA delivery system. Experimental & applied acarology, 87(1), 31.