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: analysis service resource, data analysis service, production service resource, service resource, software application, software 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: 20260905T132436+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 118 mentions in open access literature.

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

Zhai Z, et al. (2026) O-GlcNAcylation regulates the DNA damage repair function of MND1 in breast cancer. Breast cancer research : BCR, 28(1).

Feng Q, et al. (2026) Hexosamine biosynthesis drives hemocyanin O-GlcNAcylation to potentiate antibacterial immunity in shrimp. The Journal of biological chemistry, 302(7), 113213.

Zhang Z, et al. (2026) OGT mediates O-GlcNAcylation of MEIS2 and affects palatal osteogenic development. International journal of oral science, 18(1).

Ijaz M, et al. (2026) Comparative insights into molecular characterization and resistance profiling of methicillin-resistant Staphylococcus aureus across dairy livestock in Pakistan. Veterinary research communications, 50(2), 130.

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).

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.

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.

Zhou X, et al. (2025) Antioxidant taurine inhibits chondrocyte ferroptosis through upregulation of OGT/Gpx4 signaling in osteoarthritis induced by anterior cruciate ligament transection. Journal of advanced research, 77, 551.

Sun Y, et al. (2025) Lidocaine suppresses HER2-positive breast cancer cell proliferation by targeting the OGT-CCNL1 axis. Discover oncology, 17(1), 54.

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).

Zhou C, et al. (2025) O-GlcNAcylated Hsp47 as a predictive biomarker in colorectal cancer: Kaempferol targets OGT-collagen axis for therapeutic intervention. International journal of biological sciences, 21(12), 5586.

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.

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.

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

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.