

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-glcnaac 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

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 [ASWG](#) .

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.