Resource Summary Report

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Global Proteome Machine Database (GPM DB)

RRID:SCR_006617
Type: Tool

Proper Citation

Global Proteome Machine Database (GPM DB) (RRID:SCR_006617)

Resource Information

URL: http://www.thegpm.org/

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Description: The Global Proteome Machine Organization was set up so that scientists involved in proteomics using tandem mass spectrometry could use that data to analyze proteomes. The projects supported by the GPMO have been selected to improve the quality of analysis, make the results portable and to provide a common platform for testing and validating proteomics results. The Global Proteome Machine Database was constructed to utilize the information obtained by GPM servers to aid in the difficult process of validating peptide MS/MS spectra as well as protein coverage patterns. This database has been integrated into GPM server pages, allowing users to quickly compare their experimental results with the best results that have been previously observed by other scientists.

Abbreviations: The GPM

Synonyms: GPM, The Global Proteome Machine Organization: Proteomics Database and Open Source Software, Global Proteome Machine Database, GPM DB, The Global Proteome Machine Database, The Global Proteome Machine, Global Proteome Machine Database (GPM DB), The Global Proteome Machine Organization

Resource Type: data or information resource, data processing software, software resource, service resource, software application, data repository, data analysis software, database, storage service resource

Keywords: mass spectrometry, pattern, peptide, protein, proteome, scientist, spectra, tandem, FASEB list

Funding:

Resource Name: Global Proteome Machine Database (GPM DB)

Resource ID: SCR_006617

Alternate IDs: nif-0000-10455

Alternate URLs: https://www.thegpm.org/GPMDB/index.html, https://researchdata.ands.org.au/gpm-global-proteome-machine-database/11342

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Ratings and Alerts

No rating or validation information has been found for Global Proteome Machine Database (GPM DB).

No alerts have been found for Global Proteome Machine Database (GPM DB).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 253 mentions in open access literature.

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

Gholami Z, et al. (2025) Comparative Proteomics of Resistant and Susceptible Strains of Frankliniella occidentalis to Abamectin. Electrophoresis, 46(1-2), 112.

Mount HO, et al. (2025) The Legionella pneumophila effector PieF modulates mRNA stability through association with eukaryotic CCR4-NOT. mSphere, 10(1), e0089124.

Xiong EH, et al. (2024) Functional genomic analysis of genes important for Candida albicans fitness in diverse environmental conditions. Cell reports, 43(8), 114601.

Fascetti AJ, et al. (2024) Exploring the impact of age, and body condition score on erythrocytic B1-Dependent transketolase activity in cats: A comprehensive analysis of thiamine status. Heliyon, 10(14), e34188.

Steinz MM, et al. (2024) Stable oxidative posttranslational modifications alter the gating

properties of RyR1. The Journal of general physiology, 156(12).

Dwyer ME, et al. (2024) Characterization of a widespread sugar phosphate-processing bacterial microcompartment. Communications biology, 7(1), 1562.

Wang Y, et al. (2024) Control of OPC proliferation and repopulation by the intellectual disability gene PAK1 under homeostatic and demyelinating conditions. bioRxiv : the preprint server for biology.

Boyd JM, et al. (2024) Fpa (YlaN) is an iron(II) binding protein that functions to relieve Fur-mediated repression of gene expression in Staphylococcus aureus. mBio, 15(11), e0231024.

Gomez RA, et al. (2024) Proteomic diversification of spermatostyles among six species of whirligig beetles. Molecular reproduction and development, 91(5), e23745.

Pho T, et al. (2024) Nanoetched Stainless Steel Architecture Enhances Cell Uptake of Biomacromolecules and Alters Protein Corona Abundancy. ACS applied materials & interfaces, 16(43), 58427.

Akey ME, et al. (2023) Apical Secretory Glycoprotein Complex Contributes to Cell Attachment and Entry by Cryptosporidium parvum. mBio, 14(1), e0306422.

Cao P, et al. (2023) A Pseudomonas aeruginosa small RNA regulates chronic and acute infection. Nature, 618(7964), 358.

Arias-Gaguancela O, et al. (2023) Two legume fatty acid amide hydrolase isoforms with distinct preferences for microbial- and plant-derived acylamides. Scientific reports, 13(1), 7486.

Marumo T, et al. (2023) Flavinated SDHA underlies the change in intrinsic optical properties of oral cancers. Communications biology, 6(1), 1134.

Marumo T, et al. (2023) Flavinated SDHA Underlies the Change in Intrinsic Optical Properties of Oral Cancers. bioRxiv : the preprint server for biology.

Casadomé-Perales Á, et al. (2023) Neuronal Prosurvival Role of Ceramide Synthase 2 by Olidogendrocyte-to-Neuron Extracellular Vesicle Transfer. International journal of molecular sciences, 24(6).

Bhandari DD, et al. (2023) Defense against phytopathogens relies on efficient antimicrobial protein secretion mediated by the microtubule-binding protein TGNap1. Nature communications, 14(1), 6357.

Puthdee N, et al. (2022) The LIN28B/TGF-?/TGFBI feedback loop promotes cell migration and tumour initiation potential in cholangiocarcinoma. Cancer gene therapy, 29(5), 445.

Wang Y, et al. (2022) Negative regulation of seed germination by maternal AFB1 and AFB5 in Arabidopsis. Bioscience reports, 42(9).

Sugimoto K, et al. (2022) Flavonoid deficiency disrupts redox homeostasis and terpenoid

biosynthesis in glandular trichomes of tomato. Plant physiology, 188(3), 1450.