

Resource Summary Report

Generated by ASWG on Aug 3, 2026

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

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

Resource Name: Global Proteome Machine Database (GPM DB)

Resource ID: SCR_006617

Alternate IDs: r3d100010883, nif-0000-10455

Alternate URLs: <https://www.thegpm.org/GPMDB/index.html>,
<https://researchdata.anders.org.au/gpm-global-proteome-machine-database/11342>,
<https://doi.org/10.17616/R30C90>

Record Creation Time: 20220129T080237+0000

Record Last Update: 20260803T040443+0000

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 258 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Hernandez-Ortiz S, et al. (2025) A co-conserved gene pair supports *Caulobacter* iron homeostasis during chelation stress. *Journal of bacteriology*, 207(4), e0048424.

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

Aspinwall J, et al. (2025) Behavioral Manipulation of *Ixodes scapularis* by *Ehrlichia muris euclairensis*: Implications for Tick-Borne Disease Transmission. *bioRxiv : the preprint server for biology*.

Tefft NM, et al. (2025) Controlled Enzyme Cargo Loading in Engineered Bacterial Microcompartment Shells. *Biochemistry*, 64(6), 1285.

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

Liu B, et al. (2025) Identification of novel protein biomarkers of macrophage polarization using comparative proteomic analyses of murine primary macrophages. *Journal of immunology (Baltimore, Md. : 1950)*.

McAtee C, et al. (2025) Secreted exosomes induce filopodia formation. *bioRxiv : the preprint server for biology*.

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 Abundance. *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.

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.

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

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*.