

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](http://FDI Lab - SciCrunch.org) on Apr 8, 2025

## OpenMS

RRID:SCR\_012042

Type: Tool

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### Proper Citation

OpenMS (RRID:SCR\_012042)

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### Resource Information

**URL:** <http://sourceforge.net/projects/open-ms/>

**Proper Citation:** OpenMS (RRID:SCR\_012042)

**Description:** An algorithm to align LC-MS samples and to match corresponding ion species across samples.

**Resource Type:** software resource

**Defining Citation:** [PMID:17646306](https://pubmed.ncbi.nlm.nih.gov/17646306/), [DOI:10.1186/1471-2105-9-163](https://doi.org/10.1186/1471-2105-9-163)

**Keywords:** standalone software, mac os x, unix/linux, windows, c++, python, bio.tools

**Funding:**

**Availability:** GNU Lesser General Public License

**Resource Name:** OpenMS

**Resource ID:** SCR\_012042

**Alternate IDs:** biotools:openms

**Alternate URLs:** <https://bio.tools/openms>, <https://sources.debian.org/src/openms/>

**Record Creation Time:** 20220129T080308+0000

**Record Last Update:** 20250214T183204+0000

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### Ratings and Alerts

No rating or validation information has been found for OpenMS.

No alerts have been found for OpenMS.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 152 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

Canal-Garcia A, et al. (2025) Proteomic signatures of Alzheimer's disease and Lewy body dementias: A comparative analysis. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(1), e14375.

Struyf N, et al. (2024) Delineating functional and molecular impact of ex vivo sample handling in precision medicine. *NPJ precision oncology*, 8(1), 38.

Bianco V, et al. (2024) Regional Differences in the Small Intestinal Proteome of Control Mice and of Mice Lacking Lysosomal Acid Lipase. *Journal of proteome research*, 23(4), 1506.

Kuhnen G, et al. (2024) Python workflow for the selection and identification of marker peptides-proof-of-principle study with heated milk. *Analytical and bioanalytical chemistry*, 416(14), 3349.

Wang K, et al. (2024) Longitudinal molecular profiling elucidates immunometabolism dynamics in breast cancer. *Nature communications*, 15(1), 3837.

Rempfer C, et al. (2024) Differential prolyl hydroxylation by six *Physcomitrella* prolyl-4 hydroxylases. *Computational and structural biotechnology journal*, 23, 2580.

Zhu C, et al. (2024) moPepGen: Rapid and Comprehensive Identification of Non-canonical Peptides. *bioRxiv : the preprint server for biology*.

König S, et al. (2024) Observations from the Proteomics Bench. *Proteomes*, 12(1).

Xiong Y, et al. (2024) Proteomic stable isotope probing with an upgraded Sipros algorithm for improved identification and quantification of isotopically labeled proteins. *Microbiome*, 12(1), 148.

Sweatt AJ, et al. (2024) Proteome-wide copy-number estimation from transcriptomics. *Molecular systems biology*, 20(11), 1230.

Fendler NL, et al. (2024) Identification and characterization of a human MORC2 DNA binding

region that is required for gene silencing. bioRxiv : the preprint server for biology.

Zweigle J, et al. (2024) PF?Screen - an open-source tool for automated PFAS feature prioritization in non-target HRMS data. *Analytical and bioanalytical chemistry*, 416(2), 349.

Emanuelsson EB, et al. (2024) Remodeling of the human skeletal muscle proteome found after long-term endurance training but not after strength training. *iScience*, 27(1), 108638.

Yan S, et al. (2024) Inflammation causes insulin resistance in mice via interferon regulatory factor 3 (IRF3)-mediated reduction in FAHFA levels. *Nature communications*, 15(1), 4605.

Saha S, et al. (2024) TCF4 trinucleotide repeat expansions and UV irradiation increase susceptibility to ferroptosis in Fuchs endothelial corneal dystrophy. *Redox biology*, 77, 103348.

Wicke D, et al. (2024) The previously uncharacterized RnpM (YlxR) protein modulates the activity of ribonuclease P in *Bacillus subtilis* in vitro. *Nucleic acids research*, 52(3), 1404.

Kanwal N, et al. (2024) GPATCH4 regulates rRNA and snRNA 2'-O-methylation in both DHX15-dependent and DHX15-independent manners. *Nucleic acids research*, 52(4), 1953.

Dai C, et al. (2024) quantms: a cloud-based pipeline for quantitative proteomics enables the reanalysis of public proteomics data. *Nature methods*, 21(9), 1603.

Sharma N, et al. (2024) Defining the Soluble and Extracellular Vesicle Protein Compartments of Plasma Using In-Depth Mass Spectrometry-Based Proteomics. *Journal of proteome research*, 23(9), 4114.

Searfoss RM, et al. (2024) Top-down Proteomics for the Characterization and Quantification of Calreticulin Arginylation. bioRxiv : the preprint server for biology.