Resource Summary Report

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MSstats

RRID:SCR_014353
Type: Tool

Proper Citation

MSstats (RRID:SCR_014353)

Resource Information

URL: http://msstats.org/

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Description: A package for statistical relative quantification of proteins and peptides in global, targeted, and data-independent proteomics. It handles shotgun, label-free, and label-based Selected Reaction Monitoring, as well as SWATH/DIA (Data Independent Acquisition) experiments. MSStats provide functionality for data processing and visualization, model-based statistical analysis, and model-based sample size calculations.

Synonyms: MSStats

Resource Type: software application, software resource, data analysis software, data processing software

Defining Citation: DOI:10.1186/1471-2105-13-S16-S6

Keywords: data independent acquisition, statistical relative quantification, protein, peptide, data analysis software, data processing, data visualization, proteomics

Funding: National Science Foundation CAREER award 1054826

Availability: Acknowledgement requested, Available for download

Resource Name: MSstats

Resource ID: SCR_014353

Alternate URLs: http://www.bioconductor.org/packages/release/bioc/html/MSstats.html

Record Creation Time: 20220129T080320+0000

Record Last Update: 20250519T203827+0000

Ratings and Alerts

No rating or validation information has been found for MSstats.

No alerts have been found for MSstats.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 173 mentions in open access literature.

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

Long Y, et al. (2025) Pseudomonas aeruginosa pqs Quorum Sensing Mediates Interaction with Mycobacterium abscessus In Vitro. Microorganisms, 13(1).

Wei X, et al. (2025) Orosomucoid 2 upregulation mediates liver injury-induced colorectal cancer liver metastasis by promoting EMT and cell migration. Cancer science, 116(1), 44.

Chatterjee P, et al. (2025) Quorum sensing mediates morphology and motility transitions in the model archaeon Haloferax volcanii. bioRxiv : the preprint server for biology.

Zhang S, et al. (2025) Proteome differences of dental stem cells between permanent and deciduous teeth by data-independent acquisition proteomics. Open life sciences, 20(1), 20220998.

Yu Y, et al. (2024) A pilot study of S100A4, S100A8/A9, and S100A12 in dilated cardiomyopathy: novel biomarkers for diagnosis or prognosis? ESC heart failure, 11(1), 503.

Hemm L, et al. (2024) Interactors and effects of overexpressing YlxR/RnpM, a conserved RNA binding protein in cyanobacteria. RNA biology, 21(1), 1.

Dai Q, et al. (2024) Loss of Notch dimerization perturbs intestinal homeostasis by a mechanism involving HDAC activity. PLoS genetics, 20(12), e1011486.

Juli MSB, et al. (2024) Characterisation of reproductive tract microbiome and immune biomarkers for bovine genital campylobacteriosis in vaccinated and unvaccinated heifers. Frontiers in microbiology, 15, 1404525.

Tóth D, et al. (2024) Chloroplastic ascorbate modifies plant metabolism and may act as a metabolite signal regardless of oxidative stress. Plant physiology, 196(2), 1691.

Vymola P, et al. (2024) Fibrillar extracellular matrix produced by pericyte-like cells facilitates glioma cell dissemination. Brain pathology (Zurich, Switzerland), 34(6), e13265.

Jassinskaja M, et al. (2024) A complex interplay of intra- and extracellular factors regulates the outcome of fetal- and adult-derived MLL-rearranged leukemia. Leukemia, 38(5), 1115.

Steinbach A, et al. (2024) Cross-family small GTPase ubiquitination by the intracellular pathogen Legionella pneumophila. Molecular biology of the cell, 35(3), ar27.

Messer LF, et al. (2024) Novel functional insights into the microbiome inhabiting marine plastic debris: critical considerations to counteract the challenges of thin biofilms using multi-omics and comparative metaproteomics. Microbiome, 12(1), 36.

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.

Szentgyörgyi V, et al. (2024) Arf1-dependent LRBA recruitment to Rab4 endosomes is required for endolysosome homeostasis. The Journal of cell biology, 223(11).

Jiang W, et al. (2024) Histidine-rich glycoprotein modulates neutrophils and thrombolysis-associated hemorrhagic transformation. EMBO molecular medicine, 16(9), 2146.

Leibiger TM, et al. (2024) Quantitative proteomic analysis of residual host cell protein retention across adeno-associated virus affinity chromatography. Molecular therapy. Methods & clinical development, 32(4), 101383.

Kim SJ, et al. (2024) A naturally occurring variant of SHLP2 is a protective factor in Parkinson's disease. Molecular psychiatry.

Chasseigneaux S, et al. (2024) Fasting upregulates the monocarboxylate transporter MCT1 at the rat blood-brain barrier through PPAR ? activation. Fluids and barriers of the CNS, 21(1), 33.

Martisova A, et al. (2024) Characterization of the AGR2-NPM3 axis uncovers the AGR2 involvement in PD-L1 regulation in colorectal cancer. Scientific reports, 14(1), 21926.