

Resource Summary Report

Generated by [NIF](#) on Aug 31, 2026

MSstats

RRID:SCR_014353

Type: Tool

Proper Citation

MSstats (RRID:SCR_014353)

Resource Information

URL: <http://msstats.org/>

Proper Citation: MSstats (RRID:SCR_014353)

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

Defining Citation: [DOI:10.1186/1471-2105-13-S16-S6](https://doi.org/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: 20260829T182448+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 239 mentions in open access literature.

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

Banaei-Esfahani A, et al. (2026) LysG-driven transcriptional network rewiring underlies lineage-specific phenotypes in Mycobacterium tuberculosis. Nature communications, 17(1).

Cornejo FA, et al. (2026) Stress-induced ribosome degradation in Bacillus subtilis is mediated by the RNase Y-specificity complex. Nature communications, 17(1).

Matsuzawa K, et al. (2026) A preliminary study developing a scoring model incorporating fibrinogen-like protein 2 for predicting glucocorticoid resistance in thyroid eye disease. Thyroid research, 19(1).

Vendramin R, et al. (2026) Nonsense-mediated mRNA decay inhibition reshapes the cancer immunopeptidome. Immunity, 59(5), 1398.

Wang S, et al. (2026) Structural basis of TACO1-mediated efficient mitochondrial translation. Nature communications, 17(1).

Gao H, et al. (2026) Azoospermia phenotype and scRNA-seq reveal hnRNPK as a factor essential for male germ cell development in mice. Nucleic acids research, 54(4).

Abouward R, et al. (2026) LAMP1 and LAMP2A localise to axonal organelles with distinct motility dynamics and partially overlapping molecular signatures in human neurons. Journal of cell science, 139(3).

Jen FE, et al. (2026) Discovery of Ionophoroantibiotics as a New Antibiotic Class Targeting Metal Homeostasis in Multidrug-Resistant Neisseria gonorrhoeae. ACS infectious diseases, 12(1), 276.

Li X, et al. (2026) A tri-omics and machine learning framework identifies prognostic biomarkers and metabolic signatures in sepsis. Scientific reports, 16(1), 6648.

Li Y, et al. (2026) Identification of metabolic pathways associated with cytoplasmic male sterility in cotton (Gossypium hirsutum L.) using Data-Independent Acquisition-based proteomic profiling. BMC plant biology, 26(1).

Murmann AE, et al. (2026) Developing a pan cancer therapy based on DISE-inducing short RNAs. *Molecular therapy. Nucleic acids*, 37(2), 102963.

Novotny T, et al. (2026) Shared Extracellular Matrix Remodeling and Proteomic Signature in Dupuytren's Disease and Relapsed Clubfoot Tissue. *Cells*, 15(11).

Sun VL, et al. (2026) Proteomic profiling of drug and nutrient transporter expression by small intestinal region in neonates, pediatrics, and adults. *bioRxiv : the preprint server for biology*.

Myers MS, et al. (2026) BMX-001 acts as a selective chemoradioprotector in rectal cancer. *Redox biochemistry and chemistry*, 16.

Campbell Y, et al. (2026) The koala (*Phascolarctos cinereus*) prostate: a proteomic perspective on gland segmentation. *Biology of reproduction*, 114(1), 174.

Glaziou Q, et al. (2026) Mitochondrial and lipid metabolism rewiring during HEV infection. *Cellular and molecular life sciences : CMLS*, 83(1), 56.

Rea-Moreno M, et al. (2026) Unveiling alternate pathways for SARS-CoV-2 infection via extracellular vesicle-mediated transfer of ACE2 and TMPRSS2. *Nature communications*, 17(1).

Vinzant K, et al. (2026) A cell-impermeable kinase inhibitor uncovers outside-in signaling pathways that promote HIV-1 infection. *Journal of virology*, 100(6), e0016026.

Qi D, et al. (2026) High-Dose Sucralose Is Associated With Lacrimal Circadian Remodeling, Reduced Immunometabolic Signatures, and Reduced Tear Secretion. *Investigative ophthalmology & visual science*, 67(5), 11.

Raleigh D, et al. (2026) A proteogenomic RNA processing mechanism drives sex differences in meningioma. *Research square*.