

Resource Summary Report

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Mass spectrometry imaging workbench

RRID:SCR_017410

Type: Tool

Proper Citation

Mass spectrometry imaging workbench (RRID:SCR_017410)

Resource Information

URL: <https://usegalaxy.eu>

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Description: Software tool for analysis of mass spectrometry imaging data implemented in Galaxy framework. Provides options to analyze mass spectrometry imaging data in imzML file format, including quality control, visualization, preprocessing, statistical analysis, image co-registration and feature identification. Galaxy docker container for mass spectrometry imaging.

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

Defining Citation: [DOI:10.1101/628719](https://doi.org/10.1101/628719)

Keywords: Analysis, mass, spectrometry, imaging, data, Galaxy, framework, imzML, file, quality, control, visualization, statistics, docker, container

Availability: Free, Available for download, Freely available

Resource Name: Mass spectrometry imaging workbench

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Alternate URLs: <https://github.com/foellmelanie/docker-galaxy-msi>,
<https://galaxyproject.org/use/msi/>

License: MIT license

Record Creation Time: 20220129T080335+0000

Record Last Update: 20260912T195852+0000

Ratings and Alerts

No rating or validation information has been found for Mass spectrometry imaging workbench.

No alerts have been found for Mass spectrometry imaging workbench.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 105 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Bacon WA, et al. (2026) Ten common misconceptions about Galaxy (and why they are wrong!). PLoS computational biology, 22(2), e1013869.

Erny E, et al. (2025) Downregulation of TCF19 and ATAD2 causes endothelial cell cycle arrest at the transition from cardiac hypertrophy to heart failure. Basic research in cardiology, 120(6), 1209.

Geiszelhardt E, et al. (2025) Glia Cells Are Selectively Sensitive to Nanosized Titanium Dioxide Mineral Forms. International journal of molecular sciences, 26(19).

Stadager J, et al. (2025) CRISPR GENome and epigenome engineering improves loss-of-function genetic-screening approaches. Cell reports methods, 5(6), 101078.

Hurtado A, et al. (2025) A One Health approach for the genomic characterization of antibiotic-resistant Campylobacter isolates using Nanopore whole-genome sequencing. Frontiers in microbiology, 16, 1540210.

Atac D, et al. (2024) Identification and Characterization of ATOH7-Regulated Target Genes and Pathways in Human Neuroretinal Development. Cells, 13(13).

Nasr E, et al. (2024) microGalaxy: A gateway to tools, workflows, and training for reproducible and FAIR analysis of microbial data. bioRxiv : the preprint server for biology.

Showers WM, et al. (2024) SCUBA implements a storage format-agnostic API for single-cell data access in R. F1000Research, 13, 1256.

Garcia-Fernandez A, et al. (2023) Antibiotic resistance, plasmids, and virulence-associated markers in human strains of Campylobacter jejuni and Campylobacter coli isolated in Italy. Frontiers in microbiology, 14, 1293666.

Siatra P, et al. (2023) Return of the Tbx5; lineage-tracing reveals ventricular cardiomyocyte-like precursors in the injured adult mammalian heart. NPJ Regenerative medicine, 8(1), 13.

Larivière D, et al. (2023) Scalable, accessible, and reproducible reference genome assembly and evaluation in Galaxy. *bioRxiv : the preprint server for biology*.

Viljoen N, et al. (2023) A rabies-related lyssavirus from a *Nycticeinops schlieffeni* bat with neurological signs, South Africa. *Microbiology resource announcements*, 12(11), e0062123.

Gladkikh AS, et al. (2023) Near complete genome sequences from Southern Vietnam revealed local features of genetic diversity and intergenerational changes in SARS- CoV-2 variants in 2020-2021. *BMC infectious diseases*, 23(1), 806.

Brislinger-Engelhardt MM, et al. (2023) Temporal Notch signaling regulates mucociliary cell fates through Hes-mediated competitive de-repression. *bioRxiv : the preprint server for biology*.

Koch DT, et al. (2023) Tigecycline causes loss of cell viability mediated by mitochondrial OXPHOS and RAC1 in hepatocellular carcinoma cells. *Journal of translational medicine*, 21(1), 876.

Gjaltema RAF, et al. (2022) Distal and proximal cis-regulatory elements sense X chromosome dosage and developmental state at the Xist locus. *Molecular cell*, 82(1), 190.

Nührenberg TG, et al. (2022) Impact of high platelet turnover on the platelet transcriptome: Results from platelet RNA-sequencing in patients with sepsis. *PloS one*, 17(1), e0260222.

Napoli A, et al. (2022) Absence of increased genomic variants in the cyanobacterium *Chroococcidiopsis* exposed to Mars-like conditions outside the space station. *Scientific reports*, 12(1), 8437.

Ali O, et al. (2022) Transcriptomic changes induced by applications of a commercial extract of *Ascophyllum nodosum* on tomato plants. *Scientific reports*, 12(1), 8042.

Lee DW, et al. (2022) Genomic epidemiology of SARS- CoV-2 Omicron variants in the Republic of Korea. *Scientific reports*, 12(1), 22414.