

Resource Summary Report

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Mascot

RRID:SCR_014322

Type: Tool

Proper Citation

Mascot (RRID:SCR_014322)

Resource Information

URL: <http://www.matrixscience.com/server.html>

Proper Citation: Mascot (RRID:SCR_014322)

Description: A software package and server used to identify and characterize proteins from primary sequence databases using mass spectrometry data. Mascot integrates peptide mass fingerprinting, sequence querying, and MS/MS ion searching in order to search for proteins in databases like SwissProt, NCBIInr, EMBL EST divisions, contaminants, and cRAP. If a license is purchased, users may: search data sets that exceed the 1200 spectrum limit of the free version; set up automated, high throughput work; add and edit proteins and quantification methods; and search a preferred collection of sequence databases. The software package works with instruments from AB Sciex, Agilent, Bruker, Jeol, Shimadzu, Thermo Scientific, and Waters.

Synonyms: Mascot Server

Resource Type: data processing software, signal processing software, software application, software resource, standalone software

Keywords: server, software package, mass spectrometry, protein, identify, characterize, bio.tools

Availability: Free, Can be licensed for in-house use, Available for download

Resource Name: Mascot

Resource ID: SCR_014322

Alternate IDs: biotools:MASCOT

Alternate URLs: http://www.matrixscience.com/search_intro.html,
<https://bio.tools/MASCOT>

License: License cost is based on number of processors used by Mascot, <http://www.matrixscience.com/licensing.html>

License URLs: <http://www.matrixscience.com/legal.html>

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260829T182453+0000

Ratings and Alerts

No rating or validation information has been found for Mascot.

No alerts have been found for Mascot.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7141 mentions in open access literature.

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

Ito T, et al. (2026) RLF/ZFP292 stabilize CoREST-linked LSD1 engagement at bivalent promoters to safeguard pluripotency. Cell reports, 45(4), 117293.

Bellofatto K, et al. (2026) Implantable vascularized endocrine constructs for clinically scalable insulin delivery. Trends in biotechnology.

Creixell M, et al. (2026) AXL phosphosite mapping links FAK1 and YAP1 signaling to erlotinib resistance in EGFR-mutant lung cancer. Cell reports, 45(7), 117717.

Bhattacharya A, et al. (2026) Exosomal misfolded α 1-antitrypsin triggers a cytosolic GRP78-dependent unfolded protein response and pro-survival signaling in pre-metastatic tissues. The Journal of biological chemistry, 302(8), 113282.

Squair DR, et al. (2026) ZNFX1 uses two-component ubiquitin circuitry to quarantine viral RNA. Molecular cell, 86(6), 1164.

Pribyl LJ, et al. (2026) Persistent interferon signaling and clonal expansion mark early events in DNA methylation damage-induced liver cancer. NAR cancer, 8(2), zcag014.

Pasquero S, et al. (2026) Targeting peptidyl-arginine deiminase 4 suppresses SARS-CoV-2 replication and modulates the inflammatory response. iScience, 29(3), 115038.

Gryciuk A, et al. (2026) Characteristics of Two *Saccharomyces cerevisiae* Strains and Their Extracellular Vesicles as New Candidates for Probiotics. Probiotics and antimicrobial proteins, 18(1), 1338.

Park YJ, et al. (2026) Spatiotemporal translation of sperm acrosome associated proteins during early capacitation modulates sperm fertilizing ability. *Journal of advanced research*, 79, 313.

Cai Z, et al. (2026) The Cullin3-Ring E3 ubiquitin ligase complex and USP14 regulate spastin-mediated microtubule severing and promotion of neurite outgrowth. *Neural regeneration research*, 21(4), 1641.

Boulan B, et al. (2026) Oriented cell divisions induce basal progenitors and regulate neural expansion across tissues and species. *Science advances*, 12(6), eadz6827.

Xie L, et al. (2026) PERK inhibition attenuates multi-program cell death through Nrf2/HO-1 activation in diabetic retinopathy with integrated proteomics and functional validation in HRECs. *Scientific reports*, 16(1).

Liu Z, et al. (2026) A LNK-CBL-HNRPA2B1-GPX4 signaling axis mediates dopaminergic neuron vulnerability to ferroptosis in Parkinson's disease. *Redox biology*, 90, 104039.

Song S, et al. (2026) Nucleolar protein 6 as a potential oncogenic factor in colorectal cancer. *PloS one*, 21(2), e0340047.

Guo Z, et al. (2026) Psoralidin, a main compound in *Psoraleae Fructus*, induces hepatotoxicity by impeding lipid oxidative catabolism and aggravating lipid accumulation in mice. *Chinese medicine*, 21(1), 58.

Dammen-Brower K, et al. (2026) Profiling the pancreatic cancer secretome with metabolic glycoengineering. *The Journal of biological chemistry*, 302(3), 111243.

Axell E, et al. (2026) Solubility and Metastability of the Amyloidogenic Core of Tau. *ACS chemical neuroscience*, 17(3), 592.

Zhang J, et al. (2026) A Set of Novel Venom Proteins Enables Parasitoid Wasps to Exploit Older Hosts and Coexist with Competitors. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(4), e12654.

Peng S, et al. (2026) A transposon insertion in the 5' UTR of OsPT1 reprograms its expression pattern and promotes cadmium accumulation in rice grains. *Plant communications*, 7(1), 101566.

Du Y, et al. (2026) Insect I-Type Lysozymes Function as Antiviral Proteases by Forming Biomolecular Condensates. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(1), e14408.