

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.

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.

Xi X, et al. (2026) Natural Variation of TaSG-D1-TaWRKY53 Module Regulates Heading Date in Wheat. *Plant biotechnology journal*, 24(4), 2079.

Lin W, et al. (2026) FAM135B Deficiency Inhibits Cytotoxic T-cell Activity in Triple-Negative Breast Cancer by Blocking the IFI16-Dependent STING Pathway. *Cancer immunology research*, 14(2), 335.

Zhang B, et al. (2026) Human papillomavirus E7 inhibits immune responses in keratinocytes by activating HTRA1-mediated mitophagy. *International journal of molecular medicine*, 57(1).

Prates GS, et al. (2026) HIV expression persists in the cerebrospinal fluid of HIV-associated neurocognitive disorders despite effective ART. *Emerging microbes & infections*, 15(1), 2616945.

Asbi T, et al. (2026) Proteomic analysis of endothelial progenitor cells secretome identifies Serpine 1 as a potent regulator of osteogenesis. *Scientific reports*, 16(1), 5165.

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.

Rasslan R, et al. (2026) Peptidomics in Different Phases of Severe Acute Pancreatitis Model. *Proteomics. Clinical applications*, 20(1), e70035.

Sanchez A, et al. (2026) SPAP: Soluble Human Plasma Proteoform Analysis via Acetonitrile Precipitation and Top-Down Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*, 37(1), 188.

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.