Resource Summary Report

Generated by NIF on Sep 3, 2026

MatrixScience

RRID:SCR_000307
Type: Tool

Proper Citation

MatrixScience (RRID:SCR_000307)

Resource Information

URL: http://www.matrixscience.com/

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Description: A collection of both commercial and noncommercial software products which includes: Mascot Distiller, Mascot Parser, and Mascot Server. Mascot Distiller is commercial and provides a single interface to process raw data into de-isotoped peak lists. This tool can also be used for the easy distribution of search and quantitative results to colleagues. The non-commercial Mascot Parser software provides an API (Application Programmer Interface) that makes it easier to access search results written in C++, Java, Python and Perl. Mascot Server is non-commercial, and is a collection of peptide mass fingerprints as well as a MS/MS database. A selection of popular sequence databases are available online and include SwissProt, NCBInr, and the EST divisions of EMBL. This server is best used for evaluating and searching for smaller data sets.

Abbreviations: Matrix Science

Resource Type: software resource

Keywords: c++, python, perl, mascot, peptide mass fingerprints, ms/ms, swissprot, ncbinr, embl,

Availability: Restricted

Resource Name: MatrixScience

Resource ID: SCR_000307

Alternate IDs: nlx_156837

Record Creation Time: 20220129T080200+0000

Record Last Update: 20260903T234331+0000

Ratings and Alerts

No rating or validation information has been found for MatrixScience.

No alerts have been found for MatrixScience.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1683 mentions in open access literature.

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

Tieze SM, et al. (2025) Molecular elucidation of brain lipofuscin in aging and Neuronal Ceroid Lipofuscinosis. Research square.

O'Hern C, et al. (2025) Human heart-macrophage assembloids mimic immune-cardiac interactions and enable arrhythmia disease modeling. Cell stem cell, 32(11), 1671.

Rosenberg AM, et al. (2021) Quantitative mapping of human hair greying and reversal in relation to life stress. eLife, 10.

O'Neil SD, et al. (2021) Action potential-coupled Rho GTPase signaling drives presynaptic plasticity. eLife, 10.

Brignani S, et al. (2020) Remotely Produced and Axon-Derived Netrin-1 Instructs GABAergic Neuron Migration and Dopaminergic Substantia Nigra Development. Neuron, 107(4), 684.

Shi X, et al. (2020) Angiostrongylus cantonensis Galectin-1 interacts with Annexin A2 to impair the viability of macrophages via activating JNK pathway. Parasites & vectors, 13(1), 183.

Kool MJ, et al. (2019) CAMK2-Dependent Signaling in Neurons Is Essential for Survival. The Journal of neuroscience : the official journal of the Society for Neuroscience, 39(28), 5424.

McWilliams TG, et al. (2018) Basal Mitophagy Occurs Independently of PINK1 in Mouse Tissues of High Metabolic Demand. Cell metabolism, 27(2), 439.

Razim A, et al. (2018) Epitopes identified in GAPDH from Clostridium difficile recognized as common antigens with potential autoimmunizing properties. Scientific reports, 8(1), 13946.

Anil Kumar D, et al. (2018) Proteomic Changes in Chick Brain Proteome Post Treatment with Lathyrus Sativus Neurotoxin, ?-N-Oxalyl-L-?,?-Diaminopropionic Acid (L-ODAP): A Better Insight to Transient Neurolathyrism. Toxicological research, 34(3), 267.

Mayta ML, et al. (2018) Expression of a Plastid-Targeted Flavodoxin Decreases Chloroplast Reactive Oxygen Species Accumulation and Delays Senescence in Aging Tobacco Leaves. Frontiers in plant science, 9, 1039.

Madda R, et al. (2018) Plasma proteomic analysis of systemic lupus erythematosus patients using liquid chromatography/tandem mass spectrometry with label-free quantification. PeerJ, 6, e4730.

Zhang A, et al. (2018) Molecular characterization of a novel chitinase CmChi1 from Chitinolyticbacter meiyuanensis SYBC-H1 and its use in N-acetyl-d-glucosamine production. Biotechnology for biofuels, 11, 179.

López-Coral A, et al. (2018) A Serine/Threonine Kinase 16-Based Phospho-Proteomics Screen Identifies WD Repeat Protein-1 As A Regulator Of Constitutive Secretion. Scientific reports, 8(1), 13049.

Kamata S, et al. (2018) 2D DIGE proteomic analysis reveals fasting-induced protein remodeling through organ-specific transcription factor(s) in mice. FEBS open bio, 8(9), 1524.

Matsuura K, et al. (2018) Proteomic Analysis of Hippocampus and Cortex in Streptozotocin-Induced Diabetic Model Mice Showing Dementia. Journal of diabetes research, 2018, 8953015.

Coelho C, et al. (2018) Molecular and Macromolecular Changes in Bottle-Aged White Wines Reflect Oxidative Evolution-Impact of Must Clarification and Bottle Closure. Frontiers in chemistry, 6, 95.

Luan H, et al. (2018) Elucidating the hypoxic stress response in barley (Hordeum vulgare L.) during waterlogging: A proteomics approach. Scientific reports, 8(1), 9655.

Fedorova NV, et al. (2018) Neutrophils Release Metalloproteinases during Adhesion in the Presence of Insulin, but Cathepsin G in the Presence of Glucagon. Mediators of inflammation, 2018, 1574928.

Ji J, et al. (2018) Cryptdin-2 predicts intestinal injury during heatstroke in mice. International journal of molecular medicine, 41(1), 137.