Resource Summary Report

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BioWorks

RRID:SCR_014594
Type: Tool

Proper Citation

BioWorks (RRID:SCR_014594)

Resource Information

URL: http://tools.thermofisher.com/content/sfs/manuals/Man-XCALI-97194-BioWorks-331-SP1-User-ManXCALI97194-B-EN.pdf

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Description: A a configurable software package for peptide and protein mass spectrometry analyses. It includes the SEQUEST search algorithm to identify separate proteins in complex mixtures, interactive navigation tools to filter and sort protein summaries, customized spectral plots, and chromatograms using the PEPMATCH and PEPMAP tools. This software also has batch processing capabilities to improve throughput by queuing up several files, and custom-build proprietary databases, index databases, and retrieve databases through a public server.

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

Keywords: mass spectrometry, mass spectrometry analysis, sequest, algorithm, navigation, protein, chromatogram, pepmatch, pepmap, proprietary database, index, retrieve, FASEB list

Availability: Commercial

Resource Name: BioWorks

Resource ID: SCR_014594

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260806T054610+0000

Ratings and Alerts

No rating or validation information has been found for BioWorks.

No alerts have been found for BioWorks.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 897 mentions in open access literature.

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

Liang W, et al. (2025) Porcine pericardial decellularized matrix bilayer patch containing adipose stem cell-derived exosomes for the treatment of diabetic wounds. Materials today. Bio, 30, 101398.

De Caro S, et al. (2025) Influence of Nitrative Stress on the Synthesis of Neuromelanin Model Systems. ACS chemical neuroscience, 16(21), 4289.

Karalkevi?iu?t? V, et al. (2025) Calcium-Dependent S100A8 Amyloid Fibril Formation via S100A1-Mediated Transient Interaction. ACS chemical neuroscience, 16(14), 2592.

Taylor EE, et al. (2025) Mortality of Musca domestica (Diptera: Muscidae) in response to exposure to a fungal entomopathogen in combination with eicosanoid biosynthesis inhibitors. Journal of insect science (Online), 25(3).

Xu Y, et al. (2025) New insights into DEHP-induced inflammatory injury in chicken spleen: ROS/TLR4/MyD88 pathway and apoptosis/necroptosis-M1 polarization crosstalk. Poultry science, 104(6), 105074.

Di Silvestre D, et al. (2025) A Holistic Investigation of Arabidopsis Proteomes Altered in Chloroplast Biogenesis and Retrograde Signalling Identifies PsbO as a Key Regulator of Chloroplast Quality Control. Plant, cell & environment, 48(8), 6373.

Berg AP, et al. (2025) Astrocyte FABP7 Modulates Seizure Activity-Dependent Protein Expression in Mouse Brain. Neuroglia (Basel, Switzerland), 6(3).

Johnston GP, et al. (2025) Multi-platform omics analysis of Nipah virus infection reveals viral glycoprotein modulation of mitochondria. Cell reports, 44(3), 115411.

Kim JY, et al. (2025) Sustainable Bioconversion of Methanol: A Renewable Employing Novel Alcohol Oxidase and Pyruvate Aldolase. Journal of agricultural and food chemistry, 73(15), 9165.

Cai YC, et al. (2025) Proteomic Identification and Functional Analysis of Babesia microti Reveals Heparin-Binding Proteins. Journal of tropical medicine, 2025, 8821002.

Pirota V, et al. (2025) Role of Copper and Zinc Ions in the Hydrolytic Degradation of Neurodegeneration-Related Peptides. Molecules (Basel, Switzerland), 30(2).

Renkema JM, et al. (2025) Biopesticide transplant dips and foliar acaricide applications for control of cyclamen mite (Phytonemus pallidus) in strawberry. Experimental & applied acarology, 94(2), 29.

Tang H, et al. (2025) Single-cell and spatial transcriptomics reveals the key role of MCAM+ tip-like endothelial cells in osteosarcoma metastasis. NPJ precision oncology, 9(1), 104.

Schulz L, et al. (2024) Toxic Effects of the Trap Crop Solanum sisymbriifolium on the Hatch and Viability of Globodera pallida. Journal of nematology, 56(1), 20240027.

Liu X, et al. (2024) The miR7125-MdARF1 module enhances the resistance of apple to Colletotrichum gloeosporioides by promoting lignin synthesis in response to salicylic acid signalling. Plant biotechnology journal, 22(10), 2741.

D'Ambrosio A, et al. (2024) Proteomic profile of extracellular vesicles from plasma and CSF of multiple sclerosis patients reveals disease activity-associated EAAT2. Journal of neuroinflammation, 21(1), 217.

Liu W, et al. (2024) PPM1G Inhibits Epithelial-Mesenchymal Transition in Cholangiocarcinoma by Catalyzing TET1 Dephosphorylation for Destabilization to Impair Its Targeted Demethylation of the CLDN3 Promoter. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(47), e2407323.

Joshi JR, et al. (2024) Plant necrotrophic bacterial disease resistance phenotypes, QTL, and metabolites identified through integrated genetic mapping and metabolomics in Solanum species. Frontiers in plant science, 15, 1336513.

Hicks W, et al. (2024) Biopreservation and reversal of oxidative injury during blood storage by a novel curcumin-based gel formulation. Scientific reports, 14(1), 31441.

Wang L, et al. (2024) Anaplasma phagocytophilum effector EgeA facilitates infection by hijacking TANGO1 and SCFD1 from ER-Golgi exit sites to pathogen-occupied inclusions. Proceedings of the National Academy of Sciences of the United States of America, 121(33), e2405209121.