

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

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: 20260821T194005+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 905 mentions in open access literature.

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

Ma T, et al. (2026) Novel PMVs/ZIP4/Zinc/Prelamin A Axis Promotes Nuclear Dysmorphism and Vascular Aging in Humans and Rodents Post-Injury: Effective Treatment With Platelet Membrane-Coated ZIF-8 Nanoparticles. *Aging cell*, 25(3), e70443.

Shimamura D, et al. (2026) A nuclear CobW/WW-domain factor represses the CO₂-concentrating mechanism in the green alga *Chlamydomonas reinhardtii*. *Proceedings of the National Academy of Sciences of the United States of America*, 123(6), e2518136123.

Shultz KD, et al. (2026) Obscurin a localizes near the cell membrane to modulate stress fiber dynamics and cell migration. *The Journal of biological chemistry*, 302(5), 111383.

Buck N, et al. (2026) Field assessment of brix and firmness affecting *Drosophila suzukii* (Diptera: Drosophilidae) infestation in California sweet cherry cultivars. *Journal of economic entomology*, 119(2), 1243.

Cefalo CMA, et al. (2026) Proteomic analyses of human islets reveal potential markers of ? cell dysfunction during prediabetes. *JCI insight*, 11(9).

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

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

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.

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).

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

Liu M, et al. (2025) Lactate bridges mesangial cells to the differentiation of follicular helper T cells in lupus nephritis. *Nature communications*, 17(1), 663.

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.

Fleming A, et al. (2025) Molecular Mechanisms of Priming Innate Immunity by Small Extracellular Vesicles Released during Infection with Gram-negative Bacteria. *bioRxiv* : the preprint server for biology.

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.

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

Ochmian I, et al. (2025) Genotype and environment synergistically determine the polyphenolic composition and functional activity of highbush blueberries. *Scientific reports*, 15(1), 39895.

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.

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