# **Resource Summary Report**

Generated by NIF on May 6, 2025

# **MaxQuant**

RRID:SCR\_014485

Type: Tool

## **Proper Citation**

MaxQuant (RRID:SCR\_014485)

#### Resource Information

URL: http://www.biochem.mpg.de/5111795/maxquant

**Proper Citation:** MaxQuant (RRID:SCR\_014485)

**Description:** A quantitative proteomics software package for analyzing large-scale mass-spectrometric data sets. It is a set of algorithms that include peak detection and scoring of peptides, mass calibration, database searches for protein identification, protein quantification, and provides summary statistics.

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

Defining Citation: PMID:19029910, PMID:25059623

**Keywords:** mass spectrometry analysis software, proteomics software, mass calibration, protein identification, protein quantification, FASEB list

**Funding:** 

Resource Name: MaxQuant

Resource ID: SCR\_014485

**Record Creation Time:** 20220129T080320+0000

**Record Last Update:** 20250506T061332+0000

### **Ratings and Alerts**

No rating or validation information has been found for MaxQuant.

No alerts have been found for MaxQuant.

### **Data and Source Information**

Source: SciCrunch Registry

## **Usage and Citation Metrics**

We found 10869 mentions in open access literature.

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

Bryan E, et al. (2025) Nucleosomal asymmetry shapes histone mark binding and promotes poising at bivalent domains. Molecular cell, 85(3), 471.

Li D, et al. (2025) MicroEpitope: an atlas of immune epitopes derived from cancer microbiomes. Nucleic acids research, 53(D1), D1435.

Mukherjee R, et al. (2025) Serine ubiquitination of SQSTM1 regulates NFE2L2-dependent redox homeostasis. Autophagy, 21(2), 407.

Priego N, et al. (2025) TIMP1 Mediates Astrocyte-Dependent Local Immunosuppression in Brain Metastasis Acting on Infiltrating CD8+ T Cells. Cancer discovery, 15(1), 179.

Liu J, et al. (2025) Decellularized liver scaffolds for constructing drug-metabolically functional ex vivo human liver models. Bioactive materials, 43, 162.

Nguyen TP, et al. (2025) Diagnosis of invasive encapsulated follicular variant papillary thyroid carcinoma by protein-based machine learning. Journal of pathology and translational medicine, 59(1), 39.

Li G, et al. (2025) Progranulin deficiency associates with postmenopausal osteoporosis via increasing ubiquitination of estrogen receptor?. Genes & diseases, 12(1), 101221.

Jokesch P, et al. (2025) Identification of plasma proteins binding oxidized phospholipids using pull-down proteomics and OxLDL masking assay. Journal of lipid research, 66(1), 100704.

Guo Y, et al. (2025) Single-Cell Multi-Omics Analysis of In Vitro Post-Ovulatory-Aged Oocytes Revealed Aging-Dependent Protein Degradation. Molecular & cellular proteomics: MCP, 24(1), 100882.

Wei W, et al. (2025) Beclin 1 prevents ISG15-mediated cytokine storms to secure fetal hematopoiesis and survival. The Journal of clinical investigation, 135(3).

McIntyre ABR, et al. (2025) Phosphorylation of a nuclear condensate regulates cohesion and mRNA retention. Nature communications, 16(1), 390.

Zhao Q, et al. (2025) Nonenzymatic lysine D-lactylation induced by glyoxalase II substrate SLG dampens inflammatory immune responses. Cell research, 35(2), 97.

Li S, et al. (2025) NPC1 controls TGFBR1 stability in a cholesterol transport-independent manner and promotes hepatocellular carcinoma progression. Nature communications, 16(1), 439.

Lu P, et al. (2025) RecA deletion disrupts protein homeostasis, leading to deamidation, oxidation, and impaired glycolysis in Cronobacter sakazakii. Applied and environmental microbiology, 91(1), e0197124.

Li K, et al. (2025) Strategic Acyl Carrier Protein Engineering Enables Functional Type II Polyketide Synthase Reconstitution In Vitro. ACS chemical biology, 20(1), 197.

György B, et al. (2025) The protein cargo of extracellular vesicles correlates with the epigenetic aging clock of exercise sensitive DNAmFitAge. Biogerontology, 26(1), 35.

Hertzog N, et al. (2025) Hypoxia-induced conversion of sensory Schwann cells into repair cells is regulated by HDAC8. Nature communications, 16(1), 515.

Ziegler DV, et al. (2025) CDK4 inactivation inhibits apoptosis via mitochondria-ER contact remodeling in triple-negative breast cancer. Nature communications, 16(1), 541.

Xiang Z, et al. (2025) Targeting the NOTCH2/ADAM10/TCF7L2 Axis-Mediated Transcriptional Regulation of Wnt Pathway Suppresses Tumor Growth and Enhances Chemosensitivity in Colorectal Cancer. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(3), e2405758.

Murphy MR, et al. (2025) Pathogenetic mechanisms of muscle-specific ribosomes in dilated cardiomyopathy. bioRxiv: the preprint server for biology.