

Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 3, 2025

Perseus

RRID:SCR_015753

Type: Tool

Proper Citation

Perseus (RRID:SCR_015753)

Resource Information

URL: <http://www.perseus-framework.org>

Proper Citation: Perseus (RRID:SCR_015753)

Description: Software that supports biological and biomedical researchers in interpreting protein quantification, interaction and post-translational modification data. Perseus contains a comprehensive portfolio of statistical tools for high-dimensional omics data analysis covering normalization, pattern recognition, time-series analysis, cross-omics comparisons and multiple hypothesis testing.

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

Defining Citation: [PMID:27348712](https://pubmed.ncbi.nlm.nih.gov/27348712/)

Keywords: shotgun proteomics data analysis, protein quantification, post-translational modification data, statistical analysis, omics data

Funding: European Union 686547;
European Union GA ERC-2012-SyG_318987–ToPAG

Availability: Free, Available for download, Runs on Windows, Runs on Mac OS, Tutorial available, Account required

Resource Name: Perseus

Resource ID: SCR_015753

Alternate URLs: <http://www.biochem.mpg.de/5111810/perseus>

Record Creation Time: 20220129T080327+0000

Record Last Update: 20250503T060601+0000

Ratings and Alerts

No rating or validation information has been found for Perseus.

No alerts have been found for Perseus.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3008 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

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.

Muneer G, et al. (2025) Mapping Nanoscale-To-Single-Cell Phosphoproteomic Landscape by Chip-DIA. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(1), e2402421.

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

Martá-Ariza M, et al. (2025) Comparison of the amyloid plaque proteome in Down syndrome, early-onset Alzheimer's disease, and late-onset Alzheimer's disease. *Acta neuropathologica*, 149(1), 9.

Jia Y, et al. (2025) Mitochondrial KMT9 methylates DLAT to control pyruvate dehydrogenase activity and prostate cancer growth. *Nature communications*, 16(1), 1191.

Torpy H, et al. (2025) Impact of different pathogen classes on the serum N-glycome in septic shock. *BBA advances*, 7, 100138.

Subramanian V, et al. (2025) Long-Term Effects of Radiation Therapy on Cerebral Microvessel Proteome: A Six-Month Post-Exposure Analysis. *bioRxiv : the preprint server for biology*.

Peterson JM, et al. (2025) A window into intracellular events in myositis through subcellular proteomics. *Inflammation research : official journal of the European Histamine Research Society ... [et al.]*, 74(1), 31.

Tu Z, et al. (2025) Gas-phase fractionation DDA promotes in-depth DIA phosphoproteome analysis. *Heliyon*, 11(2), e41928.

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.

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

Heinzle C, et al. (2025) Positively charged specificity site in cyclin B1 is essential for mitotic fidelity. *Nature communications*, 16(1), 853.

Freppel W, et al. (2025) Dengue virus and Zika virus alter endoplasmic reticulum-mitochondria contact sites to regulate respiration and apoptosis. *iScience*, 28(1), 111599.

Chen Y, et al. (2025) Co-isolation of human donor eye cells and development of oncogene-mutated melanocytes to study uveal melanoma. *BMC biology*, 23(1), 16.

Pena IA, et al. (2025) SLC25A38 is required for mitochondrial pyridoxal 5'-phosphate (PLP) accumulation. *Nature communications*, 16(1), 978.

Wang T, et al. (2025) The developmental lipidome of *Nippostrongylus brasiliensis*. *Parasites & vectors*, 18(1), 27.

Santos-García I, et al. (2025) The ABC transporter A7 modulates neuroinflammation via NLRP3 inflammasome in Alzheimer's disease mice. *Alzheimer's research & therapy*, 17(1), 30.

Chiou LF, et al. (2025) The RING Finger E3 Ligase RNF25 Protects DNA Replication Forks Independently of its Canonical Roles in Ubiquitin Signaling. *bioRxiv : the preprint server for biology*.

Collombat J, et al. (2025) Arabidopsis conditional photosynthesis mutants *abc1k1* and *var2* accumulate partially processed thylakoid preproteins and are defective in chloroplast biogenesis. *Communications biology*, 8(1), 111.

Crissey MAS, et al. (2025) Divergent effects of acute and chronic PPT1 inhibition in melanoma. *Autophagy*, 21(2), 394.