

Resource Summary Report

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PMI-Byonic

RRID:SCR_016735

Type: Tool

Proper Citation

PMI-Byonic (RRID:SCR_016735)

Resource Information

URL: <https://www.proteinmetrics.com/products/byonic/>

Proper Citation: PMI-Byonic (RRID:SCR_016735)

Description: Software package for advanced peptide and protein identification by tandem mass spectrometry. Allows to define unlimited number of variable modification type and allows the user to set a separate limit on the number of occurrences of each modification type.

Abbreviations: Byonic

Synonyms: Protein Metrics Inc. Byonic, PMI-Byonic, PMI Byonic, Byonic

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

Defining Citation: [PMID:23255153](#)

Keywords: Byonic, Protein Metrics Inc., peptide, protein, identification, mass, spectrometry

Funding: NIGMS R21 GM085718

Availability: Commercially available

Resource Name: PMI-Byonic

Resource ID: SCR_016735

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260731T043006+0000

Ratings and Alerts

No rating or validation information has been found for PMI-Byonic.

No alerts have been found for PMI-Byonic.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Feist WN, et al. (2025) Multilayered HIV-1 resistance in HSPCs through CCR5 Knockout and B cell secretion of HIV-inhibiting antibodies. Nature communications, 16(1), 3103.

Wang LJ, et al. (2025) Characterization of a novel halophilic and thermostable multifunctional cellulase from Ebinur Salt Lake. Scientific reports, 15(1), 32877.

La Paglia L, et al. (2025) Bioinformatics analyses of the proteome of Holothuria tubulosa coelomic fluid and the first evidence of primary cilium in coelomocyte cells. Frontiers in immunology, 16, 1539751.

Tang J, et al. (2025) CD44 identified as a diagnostic biomarker for highly malignant CA19-9 negative pancreatic cancer. Cancer letters, 622, 217713.

Hung CH, et al. (2024) Defective N-glycosylation of IL6 induces metastasis and tyrosine kinase inhibitor resistance in lung cancer. Nature communications, 15(1), 7885.

Trbojević-Akmačić I, et al. (2022) High-Throughput Glycomic Methods. Chemical reviews, 122(20), 15865.

Wu H, et al. (2022) A photo-cross-linking GlcNAc analog enables covalent capture of N-linked glycoprotein-binding partners on the cell surface. Cell chemical biology, 29(1), 84.

Brouwer PJM, et al. (2022) Lassa virus glycoprotein nanoparticles elicit neutralizing antibody responses and protection. Cell host & microbe, 30(12), 1759.

Zhang H, et al. (2021) Mediator structure and conformation change. Molecular cell, 81(8), 1781.

van Dorp S, et al. (2021) Conformational dynamics of auto-inhibition in the ER calcium sensor STIM1. eLife, 10.

Valencia-Hernandez AM, et al. (2020) A Natural Peptide Antigen within the Plasmodium Ribosomal Protein RPL6 Confers Liver TRM Cell-Mediated Immunity against Malaria in Mice. Cell host & microbe, 27(6), 950.

Zhao P, et al. (2020) Virus-Receptor Interactions of Glycosylated SARS-CoV-2 Spike and Human ACE2 Receptor. *Cell host & microbe*, 28(4), 586.

Tullett KM, et al. (2020) RNF41 regulates the damage recognition receptor Clec9A and antigen cross-presentation in mouse dendritic cells. *eLife*, 9.

Rosenbalm KE, et al. (2020) Glycomics-informed glycoproteomic analysis of site-specific glycosylation for SARS-CoV-2 spike protein. *STAR protocols*, 1(3), 100214.

Seabright GE, et al. (2020) Networks of HIV-1 Envelope Glycans Maintain Antibody Epitopes in the Face of Glycan Additions and Deletions. *Structure (London, England : 1993)*, 28(8), 897.

Yao H, et al. (2020) Molecular Architecture of the SARS-CoV-2 Virus. *Cell*, 183(3), 730.

Bublitz DC, et al. (2019) Peptidoglycan Production by an Insect-Bacterial Mosaic. *Cell*, 179(3), 703.

Sberro H, et al. (2019) Large-Scale Analyses of Human Microbiomes Reveal Thousands of Small, Novel Genes. *Cell*, 178(5), 1245.

Li CG, et al. (2019) PPAR γ Interaction with UBR5/ATMIN Promotes DNA Repair to Maintain Endothelial Homeostasis. *Cell reports*, 26(5), 1333.

Walls AC, et al. (2019) Unexpected Receptor Functional Mimicry Elucidates Activation of Coronavirus Fusion. *Cell*, 176(5), 1026.