

# Resource Summary Report

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## PMI-Byonic

RRID:SCR\_016735

Type: Tool

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### Proper Citation

PMI-Byonic (RRID:SCR\_016735)

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### 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, data analysis software, software application, 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:** 20260801T042801+0000

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### Ratings and Alerts

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

No alerts have been found for PMI-Byonic.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 22 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#).

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-Akmačević 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.

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

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

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

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.

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.

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

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

Li CG, et al. (2019) PPAR $\gamma$  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.