

Mass spectrometry

MS-based protein footprinting publications

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Protein higher-order-structure determination by fast photochemical oxidation of proteins and mass spectrometry analysis

Xiaoran Roger Liu, Don L. Rempel, and Michael L. Gross

Nat Protoc. 2020 Dec;15(12):3942-3970

<https://www.nature.com/articles/s41596-020-0396-3>

Structural basis for dual-mode inhibition of the ABC transporter MsbA

Hoangdung Ho, Anh Miu, Mary Kate Alexander, Natalie K. Garcia, Angela Oh, Inna Zilberleyb, Mike Reichelt, Cary D. Austin, Christine Tam, Stephanie Shriver, Huiyong Hu, Sharada S. Labadie, Jun Liang, Lan Wang, Jian Wang, Yan Lu, Hans E. Purkey, John Quinn, Yvonne Franke, Kevin Clark, Maureen H. Beresini, Man-Wah Tan, Benjamin D. Sellers, Till Maurer, Michael F. T. Koehler, Aaron T. Weckslar, James R. Kiefer, Vishal Verma, Yiming Xu, Mireille Nishiyama, Jian Payandeh, and Christopher M. Koth

Nature. 2018 May;557(7704):196-201

<https://www.nature.com/articles/s41586-018-0083-5>

Fungal mycotoxin penisuloxazin A, a novel C-terminal Hsp90 inhibitor and characteristics of its analogues on Hsp90 function related to binding sites

Jiajia Dai, Meilin Zhu, Xin Qi, Yanjuan Wang, Huilin Li, Shuai Tang, Qiang Wang, Ao Chen, Ming Liu, Qianqun Gu, Dehai Li, and Jing Li

Biochem Pharmacol. 2020 Dec;182:114218

<https://www.sciencedirect.com/science/article/pii/S0006295220304548>

Optimizing hydroxyl radical footprinting analysis of biotherapeutics using internal standard dosimetry

Natalie K. Garcia, Alavattam Sreedhara, Galahad Deperalta, and Aaron T. Weckslar

J Am Soc Mass Spectrom. 2020 Jul 1;31(7):1563-1571

<https://pubs.acs.org/doi/10.1021/jasms.0c00146>

Fast photochemical oxidation of proteins maps the topology of intrinsic membrane proteins: light-harvesting complex 2 in a nanodisc

Yue Lu, Hao Zhang, Dariusz M. Niedzwiedzki, Jing Jiang, Robert E. Blankenship, and Michael L. Gross

Anal Chem. 2016 Sep 6;88(17):8827-34

<https://pubs.acs.org/doi/10.1021/acs.analchem.6b01945>

In cell footprinting coupled with mass spectrometry for the structural analysis of proteins in live cells

Jessica A. Espino, Vishaal S. Mali, and Lisa M. Jones

Anal Chem. 2015 Aug 4;87(15):7971-8

<https://pubs.acs.org/doi/10.1021/acs.analchem.5b01888>

Epitope mapping of anti-drug antibodies to a clinical candidate bispecific antibody

Arthur J. Schick 3rd, Victor Lundin, Justin Low, Kun Peng, Richard Vandlen, and Aaron T. Wecksler

MAbs. 2022 Jan-Dec;14(1):2028337

<https://www.tandfonline.com/doi/full/10.1080/19420862.2022.2028337>

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