

Mass spectrometry

MS-based protein footprinting publications

Featuring Thermo Scientific™ LTQ Orbitrap XL™ Mass Spectrometers

High structural resolution hydroxyl radical protein footprinting reveals an extended Robo1-heparin binding interface

Zixuan Li, Heather Moniz, Shuo Wang, Annapoorani Ramiah, Fuming Zhang, Kelley W. Moremen, Robert J. Linhardt, and Joshua S. Sharp

J Biol Chem. 2015 Apr 24;290(17):10729-40

<https://www.sciencedirect.com/science/article/pii/S0021925820426055>

Exposure of solvent-inaccessible regions in the amyloidogenic protein human SOD1 determined by hydroxyl radical footprinting

Yuewei Sheng, Joseph Capri, Alan Waring, Joan Selverstone Valentine, and Julian Whitelegge

J Am Soc Mass Spectrom. 2019 Feb;30(2):218-226

<https://pubs.acs.org/doi/10.1007/s13361-018-2075-y>

Fast photochemical oxidation of proteins (FPOP) maps the epitope of EGFR binding to adnectin

Yuetian Yan, Guodong Chen, Hui Wei, Richard Y.-C. Huang, Jingjie Mo, Don L. Rempel, Adrienne A. Tymiak, and Michael L. Gross

J Am Soc Mass Spectrom. 2014 Dec;25(12):2084-92

<https://pubs.acs.org/doi/10.1007/s13361-014-0993-x>

Structural analysis of the glycosylated intact HIV-1 gp120–b12 antibody complex using Hydroxyl radical protein footprinting

Xiaoyan Li, Oliver C. Grant, Keigo Ito, Aaron Wallace, Shixia Wang, Peng Zhao, Lance Wells, Shan Lu, Robert J. Woods, and Joshua S. Sharp

Biochemistry. 2017 Feb 21;56(7):957-970

<https://pubs.acs.org/doi/10.1021/acs.biochem.6b00888>

A dynamic model of pH-induced protein G's higher order structure changes derived from mass spectrometric analyses

Yelena Yefremova, Mahmoud Al-Majdoub, Kwabena F.M. Opuni, Cornelia Koy, Yuetian Yan, Michael L. Gross, and Michael O. Glocker

Anal Chem. 2016 Jan 5;88(1):890-7

<https://pubs.acs.org/doi/10.1021/acs.analchem.5b03536>

Complementary MS methods assist conformational characterization of antibodies with altered S-S bonding networks

Lisa M. Jones, Hao Zhang, Weidong Cui, Sandeep Kumar, Justin B. Sperry, James A. Carroll, and Michael L. Gross

J Am Soc Mass Spectrom. 2013 Jun;24(6):835-45

<https://pubs.acs.org/doi/10.1007/s13361-013-0582-4>

Fast photochemical oxidation of proteins for epitope mapping

Lisa M. Jones, Justin B. Sperry, James A. Carroll, and Michael L. Gross

Anal Chem. 2011 Oct 15;83(20):7657-61

<https://pubs.acs.org/doi/10.1021/ac2007366>

Probing the paramyxovirus fusion (F) protein-refolding event from pre- to postfusion by oxidative footprinting

Taylor A. Poor, Lisa M. Jones, Amika Sood, George P. Leser, Manolo D. Plasencia, Don L. Rempel, Theodore S. Jardetzky, Robert J. Woods, Michael L. Gross, and Robert A. Lamb

Proc Natl Acad Sci USA. 2014 Jun 24;111(25):E2596-605

<https://www.pnas.org/doi/full/10.1073/pnas.1408983111>

Find out more at thermofisher.com/proteinfootprinting

General Laboratory Equipment - Not For Diagnostic Procedures. © 2024 Thermo Fisher Scientific Inc. All rights reserved.
All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. **FL003246 0824**

thermo scientific