

Mass spectrometry

# MS-based protein footprinting publications

## Featuring Thermo Scientific™ Orbitrap™ Elite Mass Spectrometers

### Mapping the binding interface of VEGF and a monoclonal antibody Fab-1 fragment with fast photochemical oxidation of proteins (FPOP) and mass spectrometry

Ying Zhang, Aaron T. Wecksler, Patricia Molina, Galahad Deperalta, and Michael L. Gross

*J Am Soc Mass Spectrom.* 2017 May;28(5):850-858

<https://pubs.acs.org/doi/10.1007/s13361-017-1601-7>

### Relative quantification of sites of peptide and protein modification using size exclusion chromatography coupled with electron transfer dissociation

Boer Xie and Joshua S. Sharp

*J Am Soc Mass Spectrom.* 2016 Aug;27(8):1322-7

<https://pubs.acs.org/doi/10.1007/s13361-016-1403-3>

### Hydroxyl radical dosimetry for high flux hydroxyl radical protein footprinting applications using a simple optical detection method

Boer Xie and Joshua S. Sharp

*Anal Chem.* 2015 Nov 3;87(21):10719-23

<https://pubs.acs.org/doi/10.1021/acs.analchem.5b02865>

### Insights into ultra-low affinity lipase-antibody noncovalent complex binding mechanisms

Elizabeth Sara Hecht, Shrenik Mehta, Aaron T. Wecksler, Ben Aguilar, Nathaniel Swanson, Wilson Phung, Ananya Dubey Kelsoe, W. Henry Benner, Devin Tesar, Robert F. Kelley, Wendy Sandoval, and Alavattam Sreedhara

*MAbs.* 2022 Jan-Dec;14(1):2135183

<https://www.tandfonline.com/doi/full/10.1080/19420862.2022.2135183>

### High-resolution glycosylation site-engineering method identifies MICA epitope critical for shedding inhibition activity of anti-MICA antibodies

T. Noelle Lombana, Marissa L. Matsumoto, Amy M. Berkley, Evangeline Toy, Ryan Cook, Yutian Gan, Changchun Du, Paul Schnier, Wendy Sandoval, Zhengmao Ye, Jill M. Schartner, Jeong Kim, and Christoph Spiess

*MAbs.* 2019 Jan;11(1):75-93

<https://www.tandfonline.com/doi/full/10.1080/19420862.2018.1532767>

Find out more at [thermofisher.com/proteinfootprinting](https://thermofisher.com/proteinfootprinting)