

EPITOPE MAPPING

[Potency under pressure: the impact of hydrostatic pressure on antigenic properties of influenza virus hemagglutinin](#)

Schafer L, Eichelberger, Ishrat Sultana, Jin Gao, Melkamu Getie-Kebtie, Michail Alterman, Maryna C. Eichelberger

Influenza Other Respir Viruses. 2013 Nov; 7(6): 961–968. Published online 2013 Mar 17.

doi: 10.1111/irv.12102 PMID: PMC4634276

[ITEM-THREE analysis of a monoclonal anti-malaria antibody reveals its assembled epitope on the pfMSP1₁₉ antigen](#)

Kwabena F. M. Opuni, Cornelia Koy, Manuela Russ, Maren Reepmeyer, Bright D. Danquah, Moritz Weresow, Astrid Alef, Peter Lorenz, Hans-Juergen Thiesen, Michael O. Glocker

J Biol Chem. 2020 Oct 30; 295(44): 14987–14997. Published online 2020 Aug 26.

doi: 10.1074/jbc.RA120.014802 PMID: PMC7606685

[Identification and Affinity Determination of Protein-Antibody and Protein-Aptamer Epitopes by Biosensor-Mass Spectrometry Combination](#)

Loredana-Mirela Lupu, Pascal Wiegand, Daria Holdschick, Delia Mihoc, Stefan Maeser, Stephan Rawer, Friedemann Völklein, Ebrahim Malek, Frederik Barka, Sascha Knauer, Christina Uth, Julia Hennermann, Wolfgang Kleinekofort, Andreas Hahn, Günes Barka, Michael Przybylski

Int J Mol Sci. 2021 Dec; 22(23): 12832. Published online 2021 Nov 27. doi: 10.3390/ijms222312832

PMCID: PMC8657952

[Epitope Ligand Binding Sites of Blood Group Oligosaccharides in Lectins Revealed by Pressure-Assisted Proteolytic Excision Affinity Mass Spectrometry.](#)

Baschung Y, Lupu L, Moise A, Glocker M, Rawer S, Lazarev A, Przybylski M. J Am Soc Mass Spectrom. 2018 Sep;29(9):1881-1891. doi: 10.1007/s13361-018-1998-7. Epub 2018 Jun 25. PMID: 29943080

[Antibody Epitope and Affinity Determination of the Myocardial Infarction Marker Myoglobin by SPR-Biosensor Mass Spectrometry.](#)

Mihoc D, Lupu LM, Wiegand P, Kleinekofort W, Müller O, Völklein F, Glocker MO, Barka F, Barka G, Przybylski M. J Am Soc Mass Spectrom. 2021 Jan 6;32(1):106-113. doi: 10.1021/jasms.0c00234. Epub 2020 Aug 25. PMID: 32838528

[Epitope characterization of proteins and aptamers with mass spectrometry.](#)

Lupu L, Kleinekofort W, Morgner N. Eur J Mass Spectrom (Chichester). 2023 Nov 13:14690667231208530. doi: 10.1177/14690667231208530. Online ahead of print. PMID: 37957929

[Identification and Affinity Determination of Protein-Antibody and Protein-Aptamer Epitopes by Biosensor-Mass Spectrometry Combination.](#)

Lupu LM, Wiegand P, Holdschick D, Mihoc D, Maeser S, Rawer S, Völklein F, Malek E, Barka F, Knauer S, Uth C, Hennermann J, Kleinekofort W, Hahn A, Barka G, Przybylski M. Int J Mol Sci. 2021 Nov 27;22(23):12832. doi: 10.3390/ijms222312832. PMID: 34884636

[Epitope Identification and Affinity Determination of an Inhibiting Human Antibody to Interleukin IL8 \(CXCL8\) by SPR- Biosensor-Mass Spectrometry Combination.](#)

Wiegand P, Lupu L, Hüttmann N, Wack J, Rawer S, Przybylski M, Schmitz K.J Am Soc Mass Spectrom. 2020 Jan 2;31(1):109-116. doi: 10.1021/jasms.9b00050. Epub 2019 Dec 13.PMID: 32881511

Molecular Epitope Determination of Aptamer Complexes of the Multidomain Protein C-Met by Proteolytic Affinity-Mass Spectrometry.

Lupu L, Wiegand P, Hüttmann N, Rawer S, Kleinekofort W, Shugureva I, Kichkailo AS, Tomilin FN, Lazarev A, Berezovski MV, Przybylski M.ChemMedChem. 2020 Feb 17;15(4):363-369. doi: 10.1002/cmdc.201900489. Epub 2020 Jan 16.PMID: 31825565

Epitope and affinity determination of recombinant Mycobacterium tuberculosis Ag85B antigen towards anti-Ag85 antibodies using proteolytic affinity-mass spectrometry and biosensor analysis.

Rinaldi F, Lupu L, Rusche H, Kukačka Z, Tengattini S, Bernardini R, Piubelli L, Bavaro T, Maeser S, Pollegioni L, Calleri E, Przybylski M, Temporini C.Anal Bioanal Chem. 2019 Jan;411(2):439-448. doi: 10.1007/s00216-018-1466-z. Epub 2018 Nov 29.PMID: 30498982

Molecular characterization of the β -amyloid(4-10) epitope of plaque specific A β antibodies by affinity-mass spectrometry using alanine site mutation.

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