

Prof. Dr. Stefan Tenzer

*08.01.1974

Professor of Quantitative Proteom Analytics (W2)
Head of Mass-Spec Core Facility
Working Group Leader



Institute for Immunology
University Medical Center of the Johannes Gutenberg University of Mainz
D-55131 Mainz, Langenbeckstr. 1, building 308A
Tel: +49-6131-17 6199, Fax: +49-6131-17 6202
tenzer@uni-mainz.de
www.unimedizin-mainz.de/immunologie/arbeitsgruppen/ag-tenzer.html

Academia

1994 - 2000 Studies of biochemistry, Eberhard-Karls University of Tübingen
2004 Doctorate (Dr. rer. nat.), Institute for Cell Biology (Prof. Dr. H.-G. Rammensee),

Career

2004 - 2005 Postdoc, Institute for Immunology, University of Mainz
since 2005 Working group leader for antigen processing and Mass-Spec, Institute for Immunology, University of Mainz
2005 - 2008 Head of Mass-Spec Core Facility, Immunology Cluster of Excellence 'Immunointervention', University of Mainz
since 2009 Head of Mass-Spec Core Facility, Research Center for Immunotherapy (FZI), University of Mainz
since 2016 W2 professor for quantitative proteom analytics, Institute for Immunology, University of Mainz

Awards

1997 Fulbright fellowship
1997 - 1998 Study abroad, University of Massachusetts, Amherst, USA
2007 Boehringer-Ingelheim Research Prize
2011 NMFZ Research Prize of the University of Mainz

Selected Publications

Adamopoulou E, **Tenzer S**, Hillen N, Klug P, Rota IA, Tietz S, Gebhardt M, Stevanovic S, Schild H, Tolosa E, Melms A, Stoeckle C. Exploring the MHC-peptide matrix of central tolerance in the human thymus. *Nat Commun.* 2013 Jun 19;4:2039. doi: 10.1038/ncomms3039.

Tenzer S, Moro A, Kuharev J, Francis AC, Vidalino L, Provenzani A, Macchi P. 2013. Proteome-Wide Characterization of the RNA-Binding Protein RALY-Interactome Using the in Vivo-Biotinylation-Pulldown-Quant (iBioPQ) Approach. *J Proteome Res.* 2013 May 6.

Schmidt J, Iversen AKN, **Tenzer S**, Gostick E, Price DA, Lohmann V, Bowness P, Schild H, Blum HE, Klenerman P, Neumann-Haefelin C, Thimme R. 2012. Rapid and efficient antigen processing and presentation of a protective and immunodominant HLA-B*27 restricted hepatitis C virus specific CD8+ T cell epitope. *PLOS Biology* 8(11):e1003042. doi: 10.1371/journal.ppat.1003042

Günther C, Martini E, Wittkopf N, Amann K, Weigmann B, Neumann H, Waldner M, **Tenzer S**, Neurath MF, Becker C. 2011. Caspase-8 regulates TNF-alpha induced epithelial necroptosis and terminal ileitis. *Nature.* 477(7364):335-9.

Patzig J*, Jahn O*, **Tenzer S***, Wichert S, de Monasterio Schrader P, Rosfa S, Kuharev J, Yan K, Bormuth I, Bremer J, Aguzzi A, Orfaniotou F, Hesse D, Schwab M, Moebius W, Nave KA, Werner H. Quantitative and integrative proteome analysis of peripheral nerve myelin identifies novel myelin proteins and candidate neuropathy loci. *J Neurosci.* 31(45):16369-86. * Joint first authors

Tenzer S, Docter D, Rosfa S, Wlodarski A, Kuharev J, Reikik A, Knauer SK, Bantz C, Nawroth T, Bier C, Sirirattanapan J, Mann W, Treuel L, Zellner R, Maskos M, Schild H, Stauber RH. 2011. Nanoparticle Size Is a Critical Physicochemical Determinant of the Human Blood Plasma Corona: A Comprehensive Quantitative Proteomic Analysis. *ACS Nano.* ;5(9):7155-67.

Tenzer S, Wee E, Burgevin A, Stewart-Jones G, Friis L, Lamberth K, Chang CH, Harndahl M, Weimershaus M, Gerstoft J, Akkad N, Klenerman P, Fugger L, Jones EY, McMichael AJ, Buus S, Schild H, van Endert P, Iversen AK. 2009. Antigen processing influences HIV-specific cytotoxic T lymphocyte immunodominance. *Nat Immunol.* 10(6):636-46.

Schatz M, Peters B, Akkad N, Ulrich N, Nacarino Martinez A, Carroll O, Bulik S, Rammensee HG, van Endert P, Holzhütter HG, **Tenzer S*** and Schild H*. 2008. Characterizing the N-terminal processing motif of MHC class I ligands. *J Immunol.* 180: 3210-7. *joint senior authors

Reinecke J*, **Tenzer S***, Hasselmayer O, Rupnik M, Schratzenholz A, Schild H and von Eichel-Streiber C. 2007. Autocatalytic cleavage of Clostridium difficile toxin B. *Nature.* 446: 415-9. *joint first authors

Tenzer S, Peters B, Bulik S, Schoor O, Lemmel C, Schatz MM, Kloetzel PM, Rammensee HG, Schild H* and Holzhütter HG. 2005. Modeling the MHC class-I pathway by combining predictions of proteasomal cleavage, TAP transport and MHC class-I binding. *Cell Mol Life Sci.* 62: 1025-37