

Prof. Dr. med. Wolfgang Kastenmüller

Name: Prof. Dr. med. Wolfgang Kastenmüller
Position: Full Professor (W3) and Chair
Institution: Institute of Systems Immunology, Max-Planck Research Group,
Julius-Maximilians University of Würzburg, Germany

Qualifications and Career

Stages of academic/professional career

Since 09/2017 Full Professor and Chair of Institute for Systems Immunology I,
University of Würzburg
2013-2017 Associate Professor University of Bonn, Cluster of Excellence
for Immunology
2008-2012 Postdoctoral fellow, National Institutes of Health, USA,
Mentor Ronald N. Germain
2003-2008 Physician Scientist, Technical University Munich.
Specialization in Microbiology, Virology and Epidemiology of
Infectious Diseases, Board Certification (2008)

Doctorate

1998-2003 MD thesis (summa cum laude); Supervisor: Prof. Dr. Bernhard,
Subject: Tumor Immunology. Institute of Haematology,
Technical University of Munich, Germany

Degree program

1998-2002 Studies in medicine at the Technical University of Munich,
Germany. Qualification: Approbation
1995-1998 Studies in medicine at the University of Regensburg, Germany

Engagement in the Research System

Journal reviewer: Nature, Cell, Science, Nature Immunology, Immunity, Science Immunology, Journal of Experimental Medicine, Journal of Clinical Investigation, eLife and others

Reviewer for research organizations: European Research Council (ERC), Cancer Research UK (CRUK), French National Research Agency (ANR), Swiss National Science Foundation (SNSF), German Research Foundation (DFG)

Scientific advisory board: Wilhelm Sander Foundation

Teaching obligations: Various Lecture Series on Immunology, Virology, Vaccination and (single) cell Biology

Selected Publications

Ugur M, Labios RJ, Fenton C, Knöpper K, Jobin K, Imdahl F, Golda G, Hoh K, Grafen A, Kaisho T, Saliba AE, Grün D, Gasteiger G, Bajénoff M, Kastenmüller W. Lymph node medulla regulates the spatiotemporal unfolding of resident dendritic cell networks. *Immunity*. 2023 Aug 8;56(8):1778-1793.e10.

Ataide MA, Knöpper K, Cruz de Casas P, Ugur M, Eickhoff S, Zou M, Shaikh H, Trivedi A, Grafen A, Yang T, Prinz I, Ohlsen K, Gomez de Agüero M, Beilhack A, Huehn J, Gaya M, Saliba AE, Gasteiger G, Kastenmüller W. Lymphatic migration of unconventional T cells promotes site-specific immunity in distinct lymph nodes. *Immunity*. 2022 Oct 11;55(10):1813-1828.e9.

Dähling S, Mansilla AM, Knöpper K, Grafen A, Utzschneider DT, Ugur M, Whitney PG, Bachem A, Arampatzi P, Imdahl F, Kaisho T, Zehn D, Klauschen F, Garbi N, Kallies A, Saliba AE, Gasteiger G, Bedoui S, Kastenmüller W. Type 1 conventional dendritic cells maintain and guide the differentiation of precursors of exhausted T cells in distinct cellular niches. *Immunity*. 2022 Apr 12;55(4):656-670.e8.

Kienle K, Glaser KM, Eickhoff S, Mihlan M, Knöpper K, Reátegui E, Epple MW, Gunzer M, Baumeister R, Tarrant TK, Germain RN, Irimia D, Kastenmüller W, Lämmermann T. Neutrophils self-limit swarming to contain bacterial growth in vivo. *Science*. 2021 Jun. 18;372(6548):eabe7729. [10.1126/science.abe7729](https://doi.org/10.1126/science.abe7729)

Ataide MA, Komander K, Knöpper K, Peters AE, Wu H, Eickhoff S, Gogishvili T, Weber J, Grafen A, Kallies A, Garbi N, Einsele H, Hudecek M, Gasteiger G, Hölzel M, Vaeth M, Kastenmüller W. BATF3 programs CD8+ T cell memory. *Nat Immunol*. 2020 Nov;21(11):1397-1407. [10.1038/s41590-020-0772-9](https://doi.org/10.1038/s41590-020-0772-9). DOI:

Borst J, Ahrends T, Babala N, Melief CJM, Kastenmüller W. CD4+ T cell help in cancer immunology and immunotherapy. *Nat Rev Immunol*. 2018 Oct;18(10):635-647.

Brewitz A, Eickhoff S, Dähling S, Quast T, Bedoui S, Kroczeck RA, Kurts C, Garbi N, Barchet W, Iannacone M, Klauschen F, Kolanus W, Kaisho T, Colonna M, Germain RN and Kastenmüller W. CD8+ T cells orchestrate pDC – XCR1+ dendritic cell spatial and functional cooperativity to optimize priming. *Immunity* 2017 Feb 21;46(2):205-219.

Gasteiger G, Ataide M, Kastenmüller W. Lymph node - an organ for T-cell activation and pathogen defense. *Immunol Rev*. 2016 May;271(1):200-20.

Eickhoff S, Brewitz A, Gerner MY, Klauschen F, Komander K, Hemmi H, Garbi N, Kaisho T, Germain RN, Kastenmüller W. 2015. Robust Anti-viral Immunity Requires Multiple Distinct T Cell-Dendritic Cell Interactions. *Cell* 2015 Sep 10;162(6):1322-37.

Kastenmüller W, Brandes M, Wang Z, Herz J, Egen JG, Germain RN. 2013. Peripheral prepositioning and local CXCL9 chemokine-mediated guidance orchestrate rapid memory CD8+ T cell responses in the lymph node. *Immunity* 38: 502-13.

Kastenmüller W, Torabi-Parizi P, Subramanian N, Lammermann T, Germain RN. 2012. A spatially-organized multicellular innate immune response in lymph nodes limits systemic pathogen spread. *Cell* 150: 1235-48.

Academic Distinctions

2019	ERC Consolidator Grant
2018	Max-Planck Research Group
2012	NRW-Rückkehrer Program
2009	DFG Fellowship
2003	Dissertation award - Dietmar-Zumpf-Promotions Preis