

Prof. Wolfgang Kastenmüller, MD

Institute of Molecular Medicine



new Member since 2013

Rheinische Friedrich-Wilhelms-Universität Bonn

Institute of Molecular Medicine

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Research Expertise

The scientific focus of his group are cellular interactions and cell-cell communication in the context of acute infections. Central techniques are live intravital imaging and histocytometry.

Education / Training

Laboratory of Systems Biology NIH/USA,
Ronald N. Germain, 2008 - 2012

Technical University of Munich, Germany, Specialization
Infectious Disease, 2008

Technical University of Munich, Germany, Medicine, MD
thesis, 2003

Technical University of Munich, Germany, Medicine,
1997 - 2002

Universities of Regensburg, Germany, Medicine,
1995 - 1997

Appointments / Positions Held

2013

Associate Professor, University of Bonn, Germany

2008 - 2012

Postdoctoral Fellow, NIH/Besthesda USA

2002 - 2008

Clinical Fellow/Post-Doc, Technical University of Munich,
Germany

Honors / Awards

2012

CIG - Best Paper Award NIH

2003

Dietmar-Zumpf-Promotions Preis

10 Most Relevant Publications for Prof. Wolfgang Kastenmüller

1. 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
2. Franklin BS, Bossaller L, De Nardo D, Ratter JM, Stutz A, Engels G, Brenker C, Nordhoff M, Mirandola SR, Al-Amoudi A, Mangan MS, Zimmer S, Monks BG, Fricke M, Schmidt RE, Espevik T, Jones B, Jarnicki AG, Hansbro PM, Busto P, Marshak-Rothstein A, Hornemann S, Aguzzi A, **Kastenmüller W**, Latz E. The adaptor ASC has extracellular and 'prionoid' activities that propagate inflammation. *Nat Immunol*: 2014 Aug;15(8):727-37.
3. Honda T, Egen JG, Lammermann T, **Kastenmüller W**, Torabi-Parizi P, Germain RN. 2014. Tuning of antigen sensitivity by T cell receptor-dependent negative feedback controls T cell effector function in inflamed tissues. *Immunity* 40: 235-47
4. Bald T, Quast T, Landsberg J, Rogava M, Glodde N, Lopez-Ramos D, Kohlmeyer J, Riesenberger S, van den Boorn-Konijnenberg D, Hömig-Hölzel C, Reuten R, Schadow B, Weighardt H, Wenzel D, Helfrich I, Schadendorf D, Bloch W, Bianchi ME, Lugassy C, Barnhill RL, Koch M, Fleischmann BK, Förster I, **Kastenmüller W**, Kolanus W, Hölzel M, Gaffal E, Tüting T. Ultraviolet-radiation-induced inflammation promotes angiotropism and metastasis in melanoma. *Nature*. 2014 Mar 6;507(7490):109-13.
5. Lämmermann T, Afonso PV, Angermann BR, Wang JM, **Kastenmüller W**, Parent CA, Germain RN.: Neutrophil swarms require LTB4 and integrins at sites of cell death in vivo. *Nature*. 2013 Jun 20;498(7454):371-5.
6. **Kastenmüller W.**, Brandes, M., Wang, Z., Herz, J., Egen YG., Germain, RN.: Peripheral pre-positioning and local CXCL9-mediated guidance orchestrate rapid memory CD8+ T cell responses in the lymph node. *Immunity*, 2013, Jan 24:
7. Naik S, Bouladoux N, Wilhelm C, Molloy MJ, Salcedo R, **Kastenmüller W**, Deming C, Quinones M, Koo L, Conlan S, Spencer S, Hall JA, Dzutsev A, Kong H, Campbell DJ, Trinchieri G, Segre JA, Belkaid Y. 2012. Compartmentalized control of skin immunity by resident commensals. *Science* 337: 1115-9
8. **Kastenmüller W.**, Torabi-Parizi, P., Subramanian, S., Lammermann, T., Germain, R.N.: A spatially-organized multicellular innate immune response in the lymph node limits the systemic spread of tissue-invasive pathogens. *Cell*, 2012, Sep 14; 150(6):1235-48.
9. Gerner, M.Y., **Kastenmüller W.**, Ifrim, I., Kabat J., Germain, R.N.: Histo-Cytometry: in situ multiplex cell phenotyping, quantification, and spatial analysis applied to dendritic cell subset analysis in lymph nodes. *Immunity*, 2012 Aug 24;37(2):364-76.
10. **Kastenmüller W**, Gasteiger G, Gronau JH, Baier R, Ljapoci R, Busch DH, Drexler I. 2007. Cross-competition of CD8+ T cells shapes the immunodominance hierarchy during boost vaccination. *J Exp Med* 204: 2187-98