

Anja E. Hauser

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Curriculum vitae

Since 2012 Professor (W3), Intravital Imaging and Immune Dynamics, Charité
2008 - 2012 Group leader "Immune Dynamics", DRFZ Berlin
2004 - 2008 Postdoctoral fellow (Advisor: Prof. M. Shlomchik), Yale University, New Haven, USA
2003 - 2004 Postdoctoral associate (Advisor: Prof. R. Manz), DRFZ Berlin
2000 - 2003 PhD thesis, Freie Universität Berlin and Deutsches Rheumaforschungszentrum
1993 - 1999 Studies of Veterinary Medicine, Tierärztliche Hochschule Hannover

Research fields

Our lab is interested in the dynamics of immune system in health and disease. In order to investigate immune responses, we are using intravital multiphoton microscopy, which allows us to analyze cell migration and interactions in vivo.

We are focusing on

- B cell responses
- Immune dynamics in neuroinflammation
- Interactions between lymphocytes and stromal cells in the bone marrow
- Mucosal immunity
- Oxidative Stress and its effects on cells and tissues

Activities in the scientific community, honors, awards

2014 "Young leaders in Science" award, Schering foundation
2012 JIMI – a network for intravital microscopy, co-founder
2003 Avrion Mitchison Award for Rheumatology

Memberships:

- Deutsche Gesellschaft für Immunologie
- Deutsche Gesellschaft für Rheumatologie
- Speaker of the Berlin Section of the Integrated Research Training Group of the CRC Transregio 130 "B cells and beyond"
- Speaker of the Leibniz Graduate School of Rheumatology

Selected publications

Lin GH, Edele F, Mbanwi AN, Wortzman ME, Snell LM, Vidric M, Roth K, Hauser AE, Watts TH. Contribution of 4-1BBL on radioresistant cells in providing survival signals through 4-1BB expressed on CD8(+) memory T cells in the bone marrow. *Eur J Immunol*. 2012;42(11):2861-74.

Andresen V, Pollok K, Rinnenthal JL, Oehme L, Gunther R, Spiecker H, Radbruch H, Gerhard J, Sporbert A, Cseresnyes Z, Hauser AE*, Niesner R*. High-resolution intravital microscopy. *PLoS One*. 2012;7(12):e50915. | * shared senior authorship

Niesner RA, Hauser AE. Recent advances in dynamic intravital multi-photon microscopy. *Cytometry A*. 2011;79(10):789-98.

Kohler A, De Filippo K, Hasenberg M, van den Brandt C, Nye E, Hosking MP, Lane TE, Mann L, Ransohoff RM, Hauser AE, Winter O, Schraven B, Geiger H, Hogg N, Gunzer M. G-CSF-mediated thrombopoietin release triggers neutrophil motility and mobilization from bone marrow via induction of Cxcr2 ligands. *Blood*. 2011;117(16):4349-57.

Hiepe F, Dorner T, Hauser AE, Hoyer BF, Mei H, Radbruch A. Long-lived autoreactive plasma cells drive persistent autoimmune inflammation. *Nat Rev Rheumatol*. 2011;7(3):170-8.

Esplugues E, Huber S, Gagliani N, Hauser AE, Town T, Wan YY, O'Connor W, Jr., Rongvaux A, Van Rooijen N, Haberman AM, Iwakura Y, Kuchroo VK, Kolls JK, Bluestone JA, Herold KC, Flavell RA. Control of TH17 cells occurs in the small intestine. *Nature*. 2011;475(7357):514-8.

Herz J, Siffrin V, Hauser AE, Brandt AU, Leuenberger T, Radbruch H, Zipp F, Niesner RA. Expanding two-photon intravital microscopy to the infrared by means of optical parametric oscillator. *Biophys J*. 2010;98(4):715-23.

Hauser AE, Kerfoot SM, Haberman AM. Cellular choreography in the germinal center: new visions from in vivo imaging. *Semin Immunopathol*. 2010;32(3):239-55.

Hauser AE, Shlomchik MJ, Haberman AM. In vivo imaging studies shed light on germinal-centre development. *Nat Rev Immunol*. 2007;7(7):499-504.

Hauser AE, Junt T, Mempel TR, Sneddon MW, Kleinstein SH, Henrickson SE, von Andrian UH, Shlomchik MJ, Haberman AM. Definition of germinal-center B cell migration in vivo reveals predominant intrazonal circulation patterns. *Immunity*. 2007;26(5):655-67.