

1) General information

PD Dr. rer. nat Dr. habil. med. Wolfgang Schuh

Position: Group Leader, Principal Investigator (tenured)
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2) Academic Education

2004 Doctoral degree (Dr. rer. nat.), Friedrich-Alexander-University Erlangen-Nürnberg
2000-2004 Doctoral Thesis, Division of Molecular Immunology, Friedrich-Alexander-University Erlangen-Nürnberg (Mentor: Prof. Dr. Hans-Martin Jäck)
1998-1999 Diploma Thesis, Chair of Genetics, Friedrich-Alexander-University Erlangen-Nürnberg
1993-1999 Study of Biology, Friedrich-Alexander-University Erlangen-Nürnberg

3) Professional Career

2022 Habilitation in Immunology, Medical Faculty of the Friedrich-Alexander-University Erlangen-Nürnberg. Venia Legendi ("Lehrbefugnis") in Immunology, Academic Title: "Privat Dozent (PD)"
Since 2009 Group leader, Division of Molecular Immunology, Friedrich-Alexander-University Erlangen-Nürnberg
2004-2009 Postdoctoral fellow, Division of Molecular Immunology, Friedrich-Alexander-University Erlangen-Nürnberg

4) Professional Activities

Since 2022 Member, Tierschutzausschuss der Friedrich-Alexander-Universität Erlangen-Nürnberg
2018-2022 Steering Committee Member, TRR130 Integrated Research Training Group "B cells and Beyond"
Since 2018 Organizing Committee Member, Autumn School "Current Concepts in Immunology", German Society for Immunology (DGfI)
Since 2014 Faculty, Autumn School "Current Concepts in Immunology", German Society for Immunology (DGfI)
Since 2014 Director, Animal Facility, Nikolaus Fiebiger Center, Erlangen

5) Research Focus

- Transcriptional control of B cell activation and plasma cell differentiation
- Krüppel-like factor 2 (KLF2) in B cell and plasma cell homeostasis
- Components of the plasma cell survival niche
- B cell and plasmablast migration and homing
- Signaling of the IgA B cell receptor in plasma cells

6) 10 Selected Publications

1. Wittner, J., S.R. Schulz, T.D. Steinmetz, J. Berges, M. Hauke, W.M. Channell, A.F. Cunningham, A.E. Hauser, A. Hutloff, D. Mielenz, H.M. Jäck, and **W. Schuh**. 2022. Krüppel-like factor 2 controls IgA plasma cell compartmentalization and IgA responses. *Mucosal Immunol* 15:668-682.
2. **Schuh, W.**, L. Baus, T. Steinmetz, S.R. Schulz, L. Weckwerth, E. Roth, M. Hauke, S. Krause, P. Morhart, M. Rauh, M. Hoffmann, N. Vesper, M. Reth, H. Schneider, H.M. Jäck, and D. Mielenz. 2021. A surrogate cell-based SARS-CoV-2 spike blocking assay. *Eur J Immunol* 51:2665-2676.
3. **Schuh, W.**, D. Mielenz, and H.M. Jäck. 2020. Unraveling the mysteries of plasma cells. *Adv Immunol* 146:57-107.
4. Cvetkovic, L., S. Perisic, J. Titze, H.M. Jäck, and **W. Schuh**. 2019. The Impact of Hyperosmolality on Activation and Differentiation of B Lymphoid Cells. *Front Immunol* 10:828.
5. Haberland, K., J.A. Ackermann, N. Ipseiz, S. Culemann, K. Pracht, M. Englbrecht, H.M. Jack, G. Schett, **W. Schuh***, and G. Krönke*. 2018. Eosinophils are not essential for maintenance of murine plasma cells in the bone marrow. *Eur J Immunol* 48:822-828. * authors contributed equally
6. Pracht, K., J. Meinzing, P. Daum, S.R. Schulz, D. Reimer, M. Hauke, E. Roth, D. Mielenz, C. Berek, J. Corte-Real, H.M. Jäck*, and **W. Schuh***. 2017. A new staining protocol for detection of murine antibody-secreting plasma cell subsets by flow cytometry. *Eur J Immunol* 47:1389-1392. * authors contributed equally
7. Winkelmann, R., L. Sandrock, J. Kirberg, H.M. Jäck, and **W. Schuh**. 2014. KLF2-a negative regulator of pre-B cell clonal expansion and B cell activation. *PLoS One* 9:e97953.
8. Winkelmann, R., L. Sandrock, M. Porstner, E. Roth, M. Mathews, E. Hobeika, M. Reth, M.L. Kahn, **W. Schuh***, and H.M. Jäck*. 2011. B cell homeostasis and plasma cell homing controlled by Kruppel-like factor 2. *Proc Natl Acad Sci U S A* 108:710-715. * authors contributed equally
9. **Schuh, W.**, S. Meister, K. Herrmann, H. Bradl, and H.M. Jäck. 2008. Transcriptome analysis in primary B lymphoid precursors following induction of the pre-B cell receptor. *Mol Immunol* 45:362-375.
10. **Schuh, W.***, S. Meister*, E. Roth, and H.M. Jäck. 2003. Cutting edge: signaling and cell surface expression of a mu H chain in the absence of lambda 5: a paradigm revisited. *J Immunol* 171:3343-3347. * authors contributed equally