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Dr. rer. nat. (PhD)

**KATHARINA
PRACHT**



Professional Career

Since 09/2022

Group Leader at the Division of Molecular Immunology,
Universitätsklinikum Erlangen

02/2020-08/2022

Postdoctoral Fellow at the Division of Molecular Immunology,
Universitätsklinikum Erlangen

02/2019 - 01/2020

Postdoctoral Fellow at the Chair of Nutrition and Immunology, ZIEL,
TUM Weihenstephan

07/2018 - 01/2019

Postdoctoral Fellow at the Division of Molecular Immunology,
Universitätsklinikum Erlangen

09/2012 - 09/2013

Scientific co-worker, Institute of Clinical Microbiology, Immunology
and Hygiene, Universitätsklinikum Erlangen



Education

10/2013 - 01/2019

Member and Spokesperson for PhD students of the IRTG-TRR130 „B
cells and beyond“ - Regular participation at scientific conferences,
symposia, retreats and workshops

10/2013 - 06/2018

PhD thesis “Role of miR-148a in mature plasma cells”
Division of Molecular Immunology, Universitätsklinikum Erlangen
Supervisor: Prof. Dr. rer. nat. Hans-Martin Jäck

10/2010 - 08/2012

M. Sc. in Molecular Science at FAU Erlangen-Nürnberg
Major subject: Drug Discovery, Molecular Biology and Forensics

10/2007 - 09/2010

B. Sc. in Molecular Science at FAU Erlangen-Nürnberg
Major subject: Chemistry, Biochemistry and Pharmacy



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★ Research Focus

- The role of the glucose transporter GLUT1 in murine and human antibody-secreting cells
- Metabolic control of plasma cell formation and survival
- The influence of nutrition on the B cell immune response
- Protein and organelle homeostasis in B cells
- Mucosal antibody response in the intestines
- Formation and survival mechanisms of antibody-secreting cells

🏢 Professional Skills

Languages

German (native); English (fluent, C1)

Scientific skills and techniques

- Various scientific analysis software, Typo3
- Flow Cytometry, FACS, ELISpot, ELISA, Cell Culture, Seahorse XF analyzer, DNA/(micro-)RNA Analysis, Western Blot, CRISPR/Cas9, Transfection/ Transformation of mammal cells/ bacteria, immunohistology, transgenic mouse handling and management
- Teaching and instruction in scientific work for students of human medicine, molecular medicine and biology; supervise B.Sc./ M.Sc., PhD and cand. med. doctoral students theses.

★ Awards and Scientific Activities

06/2022

Travel Scholarship, FFL UK-Erlangen, FAU Erlangen-Nürnberg

09/2021

Conceptualization of the project and supervision of the “Biolegend Bright-Sparks Award”-Winner Dr. med. Theresa Bierling

09/2018

DGfI/CSI travel scholarship as a DGfI delegate; “13th Annual Meeting and 30th Anniversary of the Chinese Society for Immunology (CSI)”, Shanghai

Since 09/2016

Member of the DGfI young immunologists

09/2015

„Biolegend Bright Sparks Award“
4th European Congress of Immunology, Vienna

02/2015

„Gernot-Achatz Poster Award“ - 13th B Cell Forum,
DGfI Study Group-Biology of B Lymphocytes, Hitzacker

Since 11/2013

Member of the “German Society for Immunology (DGfI)” and the
Study Group-Biology of B Lymphocytes



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Selected Publications

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Metabolic profiling of single cells by exploiting NADH and FAD fluorescence via flow cytometry

A. Haque Abir, L. Weckwerth, A. Wilhelm, J. Thomas, C. M. Reichardt, L. Munoz, S. Völkl, U. Appelt, M. Mroz, R. S. Fischer, K. Pracht, H.-M. Jäck, G. Schett, G. Krönke, D. Mielenz; Mol. Metabolism, 2024; DOI: 10.1016/j.molmet.2024.101981

GLUT1-mediated glucose import in B cells is critical for anaplerotic balance and humoral immunity

T.E.H. Bierling, A. Gumann, S. R. Ottmann, S. R. Schulz, L. Weckwerth, J. Thomas, A. Gessner, M. Wichert, F. Kuwert, F. Rost, M. Hauke, T. Freudenreich, D. Mielenz, H.-M. Jäck and K. Pracht; Cell Rep, 2024, DOI: 10.1016/j.celrep.2024.113739

The intestine: A highly dynamic microenvironment for IgA plasma cells

K. Pracht, J. Wittner, F. Kagerer, H.-M. Jäck and W. Schuh; Front. Immunol. 2023. DOI: 10.3389/fimmu.2023.1114348

The microRNA processing subunit DGCR8 is required for the germinal center response

P. Daum, S.R. Ottmann, J. Meinzingler, S.R. Schulz, J. Côte-Real, M. Hauke, E. Roth, W. Schuh, D. Mielenz, JH.-M. Jäck and K. Pracht; Front. Immunol., 2022, DOI 10.3389/fimmu.2022.991347

miR-148a controls metabolic programming and survival of mature CD19-negative plasma cells in mice

K. Pracht, J. Meinzingler, S. R. Schulz, P. Daum, J. Côte-Real, M. Hauke, E. Roth, D. Kindermann, D. Mielenz, W. Schuh, J. Wittmann and H.-M. Jäck; Eur. J. Immunol. 2021. 51: 1089–1109; DOI: 10.1002/eji.202048993

Eosinophils are not required for maintenance of plasma cells in the bone marrow

K. Haberland, J. A. Ackermann, N. Ipseiz, S. Culemann, K. Pracht, M. Englbrecht, H.-M. Jäck, G. Schett, W. Schuh and G. Krönke; Eur. J. Immunol. 2018 Feb 14, DOI: 10.1002/eji.201747227

A new staining protocol for detection of murine antibody-secreting plasma cell subsets by flow cytometry

K. Pracht, J. Meinzingler, P. Daum, S. R. Schulz, D. Reimer, M. Hauke, E. Roth, D. Mielenz, C. Berek, J. Côte-Real, H.-M. Jäck+ and W. Schuh; Eur. J. Immunol. 2017. 47(8): 1389-1392 DOI:10.1002/eji.201747019

miRNA meets plasma cells “How tiny RNAs control antibody responses”

J. Meinzingler, H.-M. Jäck and K. Pracht; Clin Immunol. 2017 Jul 21. DOI: 10.1016/j.clim.2017.07.015

The role of the miR-148/-152 family in physiology and disease

M. Friedrich, K. Pracht, M.-F. Mashreghi, H.-M. Jäck, A. Radbruch and B. Seliger; Eur J Immunol. 2017 Sep 7 DOI: 10.1002/eji.201747132