



CRC/TRR241 Newsletter

April 2021 – Issue 8

New TRR 241 First and Senior Author Publications

Jay Patankar (B05) published with the support of Anja Kühn (INF), Raja Atreya (C02/C03/INF), Christoph Becker (A03/Z02), Claudia Günther (A02), Sebastian Zundler (C04), Britta Siegmund (B01/Z02) and Markus F. Neurath (C04) the article **Severe Acute Respiratory Syndrome Coronavirus 2 Attachment Receptor Angiotensin-Converting Enzyme 2 Is Decreased in Crohn's Disease and Regulated By Microbial and Inflammatory Signaling** in the journal **Gastroenterology**.

Britta Siegmund (B01/Z02) published with the support of Ahmed Hegazy (A05) and Carl Weidinger (B01) the review **COVID-19-from mucosal immunology to IBD patients** in the journal **Mucosal Immunology**.

Andreas Diefenbach (A01) published with the support of Andrey Kruglov (A04) the article **Group 3 Innate Lymphoid Cells Program a Distinct Subset of IL-22BP-Producing Dendritic Cells Demarcating Solitary Intestinal Lymphoid Tissues** in the journal **Immunity**.

Kai Hildner (A08) published with the support of Stefan Wirtz (A03), Clemens Neufert (A08) and Markus F. Neurath (C04) the article **Th17 Cell-Mediated Colitis Is Positively Regulated by Interferon Regulatory Factor 4 in a T Cell-Extrinsic Manner** in the journal **Frontiers in Immunology**.

Britta Siegmund (B01/Z02) published with the support of Raja Atreya (C02/C03/INF) the review **Location is important: differentiation between ileal and colonic Crohn's disease** in the journal **Nature Reviews Gastroenterology & Hepatology**.

Ahmed Hegazy (A05) published the article **Th2 Cells Lacking T-bet Suppress Naive and Memory T cell Responses via IL-10** in the journal **Proceedings of the national academy of Sciences of the United States of America**.

Martin Herrmann (B04) published the review **Neutrophil Extracellular Traps Tied to Rheumatoid Arthritis: Points to Ponder** in the journal **Frontiers in Immunology**.

Stefan Wirtz (A03) published with the support of Raja Atreya (C02/C03/INF), Christoph Becker (A03/Z02) and Markus F. Neurath (C04) the article **CCR8 Signaling via CCL1 Regulates Responses of Intestinal IFN-gamma Producing Innate Lymphoid Cells and Protects From Experimental Colitis** in the journal **Frontiers in Immunology**.

Christoph Becker (A03/Z02) published the review **Cytokine-Mediated Crosstalk between Immune Cells and Epithelial Cells in the Gut** in the journal **Cells**.

Christoph Becker (A03/Z02) published with the support of Stefan Wirtz (A03) the article **The Regulation of Intestinal Inflammation and Cancer Development by Type 2 Immune Responses** in the journal **International Journal of Molecular Sciences**.

Rocío López-Posadas (A07) published with the support of Markus F. Neurath (C04) the article **Rho GTPases as Key Molecular Players within Intestinal Mucosa and GI Diseases** in the journal **Cells**.

Raja Atreya (C02/C03/INF) published with the support of Sebastian Zundler (C04) and Markus F. Neurath (C04) the article **Long-term effectiveness, safety and immunogenicity of the biosimilar SB2 in inflammatory bowel disease patients after switching from originator infliximab** in the journal **Therapeutic Advances in Gastroenterology**.

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Save the Date – Online Symposium “Vision 2030”

Due to the Covid-19 pandemic our international Symposium “**Vision 2030: Changing Paradigms in IBD**” will take place Online on **2021, June 10th-11th**. Further information, registration and AGENDA will follow soon.

Following guest speakers have already confirmed their participation:

Arthur Kaser, Cambridge, GB
Rinse Weersma, Groningen, NL
Matteo Villa, Freiburg, DE
James Lee, Cambridge, GB
Till Strowig, Braunschweig, DE
Fiona Powrie, Oxford, GB
Severine Vermeire, Leuven, BE
Christoph Klose, Berlin, DE
Holm Uhlig, Oxford, GB
Daniel Mucida, NY, USA
Dirk Haller, München, DE
Melanie Schirmer, Freising, DE
Alison Simmons, Oxford, GB
Iliyan Iliev, NY, USA
Fanny Matheis, NY, USA
Sebastian Winter, Dallas, USA

TRR241 on site review 2022

This year, we have to submit our proposal for a second funding period of our TRR241 (July 2022 to June 2026). The onsite review is scheduled to take place in Erlangen on the **17th and 18th of February 2022**. **Please save this date!!!** The DFG is expecting our final proposal on the 08th of December 2021 at the latest. Still in the first half of 2021, we will have to submit a preproposal to the DFG with some basic information about participants, projects and funding.

Special Issue “Paradigms in Inflammatory Bowel Diseases”

Britta Siegmund and Christoph Becker are Guest Editors of the Special Issue “**Changing Paradigms in Inflammatory Bowel Diseases**”, which will be published in the *International Journal of Molecular Sciences* (ISSN 1422-0067; **Impact Factor 4.556**). Authors are welcome to submit their manuscripts until **31 October 2021**.



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Congratulations!

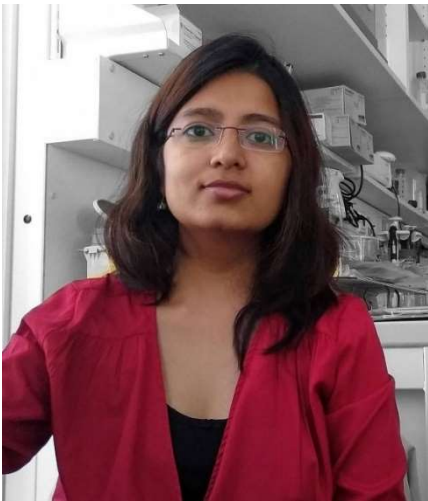
Congratulations to the new Privatdozentin Dr. Caroline Bosch-Voskens on her successful habilitation. Her habilitation focused on the translational interface of immunotherapy in cancer and autoimmune disease and presents data on antibodies designed to manipulate costimulatory pathways for clinical benefit and the initiation of a clinical Trial with regulatory T cells in patients with ulcerative colitis.

Congratulations to Prof. Dr. Hyun-Dong Chang

He was appointed to the professorship of cytometry. Since 2017, he has been heading a research group at the DRFZ, which is studying cells and bacteria that cause chronic inflammation. Decisive funding for the research group comes from the Dr. Rolf M. Schwiete Foundation.

The cytometric measurement of cells enables to identify and examine pathogens and cells that cause diseases such as allergies, rheumatism or cancer. Therapies can thus be developed to specifically eliminate these cells, but also to apply healing cells or probiotic bacteria.

We proudly present the PhD students of the TRR241



My name is **Tejal Karmalkar** and I am a doctoral researcher in the group of Prof. Antigoni Triantafyllopoulou. I obtained my joint B.Sc. and M.Sc. degree in Biotechnology from the University of Pune, India. I started my PhD in January 2019, and the focus of my research is elucidating the mechanism behind the formation of a granuloma, which is a feature in many diseases, including IBD.

My name is **Sarah Lemire** and I'm a medical student in my fourth year at FAU Erlangen. At the moment I am working on my MD thesis in the group of Prof. Maximilian Waldner at the Medical Institute 1, UK Erlangen. In my project we study the autofluorescence of immune cells in different functional states with the help of multiphoton microscopy. Hopefully this will lead one day to new diagnostic opportunities for patients with inflammatory bowel diseases.

