



CRC / TRR 241 Newsletter

Issue 12 - August 2023

International Symposium “Vision 2030” 19.-20. May 2023, Berlin

Vision 2030 “Changing Paradigms in IBD”

Our 2nd International Symposium “*Vision 2030 - Changing Paradigms in IBD*” took place from 19.-20.05.23 at the Katholische Akademie in Berlin. Conference topics included *key pathways of intestinal inflammation, luminal factors influencing intestinal inflammation, memory and antigen-specific responses, unexpected networks in IBD* and *systems biology*. We were able to attract many renowned experts as speakers and can say that the congress was a great success.

Congratulations to Toka Omar, Tamara Leupold and Lena Erkert, who have received poster prizes for their outstanding scientific work.

We thank all participants for their active support and the excellent scientific exchange!





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New CRC TRR 241 publications

- Leupold T. and **Wirtz S.** ILCs-Crucial Players in Enteric Infectious Diseases. *Int J Mol Sci.* 2022 Nov 17; 23(22):14200. doi: 10.3390/ijms232214200.
- **Atreya I.** and **Neurath M.F.** How the Tumor Microenvironment Modulates the Recruitment and Activation of Colorectal Cancer-Infiltrating Lymphocytes. *Biomedicines.* 2022 Nov 15;10(11):2940. doi: 10.3390/biomedicines10112940.
- Friebe J., Schinnerling K., Weigt K., Heldt C., Fromm A., **Bojarski C.**, Siegmund B., Eppe H.J., Kikhney J., Moter A., Schneider T., **Schulzke J.D.**, Moos V., **Schumann M.** Uptake of *Tropheryma whipplei* by Intestinal Epithelia. *Int J Mol Sci.* 2023 Mar 24;24(7):6197. doi: 10.3390/ijms24076197.
- Jakob M.O., Spari D., Sánchez Taltavull D., Salm L., Yilmaz B., Doucet Ladevèze R., Mooser C., Pereyra D., Ouyang Y., Schmidt T., Mattiola I., Starlinger P., Stroka D., Tschan F., Candinas D., Gasteiger G., **Klose C.S.N.**, **Diefenbach A.**, Gomez de Agüero M., Beldi G. ILC3s restrict the dissemination of intestinal bacteria to safeguard liver regeneration after surgery. *Cell Rep.* 2023 Mar 28;42(3):112269. doi: 10.1016/j.celrep.2023.112269. Epub 2023 Mar 17.
- Soteriou D., Kubánková M., Schweitzer C., **López-Posadas R.**, Pradhan R., Thoma O.-M., Györfi A.-H., Matei A.-E., **Waldner M.**, Distler J.H.W., Scheuermann S., Langejürgen J., Eckstein M., Schneider-Stock R., **Atreya R.**, **Neurath M.F.**, Hartmann A., Guck J. Rapid single-cell physical phenotyping of mechanically dissociated tissue biopsies. *Nat Biomed Eng.* 2023 Apr 6. doi: 10.1038/s41551-023-01015-3.
- Rodríguez-Sillke Y., **Schumann M.**, Lissner D., Branchi F., Proft F., Steinhoff U., **Siegmund B.**, Glauben R. Analysis of Circulating Food Antigen-Specific T-Cells in Celiac Disease and Inflammatory Bowel Disease. *Int J Mol Sci.* 2023 May 2;24(9):8153. doi: 10.3390/ijms24098153.
- Müller T.M., Li-Juan L., Czerwinski T., Wiesinger M., Dedden M., Paap E.-M., Ullrich K.A.M., **Atreya I.**, **Siegmund B.**, **Atreya R.**, Fabry B., Berking C., **Neurath M.F.**, **Zundler S.**, **Voskens C.J.** Increased Motility and Suppression of Ex Vivo-Expanded Regulatory T Cells Designed for Adoptive Transfer Therapy in Ulcerative Colitis. *Cell Mol Gastroenterol Hepatol.* 2023;16(1):183-187.e2. doi: 10.1016/j.jcmgh.2023.04.002.
- **Koop K.**, Enderle K., Hillmann M., Ruspeckhofer L., Vieth M., Sturm G., **Trajanoski Z.**, **Kühl A.**, **Atreya R.**, **Leppkes M.**, Baum P., Roy J., Martin A., **Neurath M.F.**, **Neufert C.** Interleukin 36 receptor-inducible matrix metalloproteinase 13 mediates intestinal fibrosis. *Front Immunol.* 2023 May 3;14:1163198. doi: 10.3389/fimmu.2023.1163198. eCollection 2023.
- Reimann T.M., Müdsam C., Schachtler C., Ince S., Sticht H., Herrmann C., **Stürzl M.**, Kost B. The large GTPase AtGBPL3 links nuclear envelope formation and morphogenesis to transcriptional repression. *Nat Plants.* 2023 May;9(5):766-784. doi: 10.1038/s41477-023-01400-5. Epub 2023 Apr 24.
- Schulze L.L., Becker E., Dedden M., Liu L.J., van Passen C., Mohamed Abdou M., Müller T.M., Wiendl M., Ullrich K.A., **Atreya I.**, **Leppkes M.**, Ekici A.B., Kirchner P., **Stürzl M.**, Sexton D., Palliser D., **Atreya R.**, **Siegmund B.**; **TRR241 IBDome consortium**; **Neurath M.F.**, **Zundler S.** Differential effects of ontamalimab versus vedolizumab on immune cell trafficking in intestinal inflammation and IBD. *J Crohns Colitis.* 2023 May 19;jjad088. doi: 10.1093/ecco-jcc/jjad088.

Please send newly accepted TRR 241 publications to

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Awards / Prizes

Congratulations to Leif Ludwig, who is this year's recipient of the Heinz Meier Leibniz Prize!
Congratulations for this outstanding award.

[Heinz Maier-Leibnitz-Preisträger 2023](#)

Congratulations again to Leif Ludwig! He receives the Paul Ehrlich and Ludwig Darmstaedter Young Investigator Award 2023 for his analytical method for the formation of new blood cells.

[Paul Ehrlich- und Ludwig Darmstaedter-Nachwuchspreisträger 2023](#)

Congratulations to Jay Patankar who won the DANCED-Zukunftspreis this year!

[DANCED-Jahrestagung](#)

Upcoming Events

Save the date - TRR 241 Retreat / iRTG Meeting!

Please save the date for our annual retreat, this year in combination with the iRTG meeting.
Most likely it will take place in Leipzig. Here is a rough overview of the schedule:

08.10.23 - 13:00-17:00 **iRTG Meeting**

09.10.23 - 08:00-12:00 **iRTG Meeting** / 13:00-18:00 **Retreat**

10.10.23 - 08:00-15:00 **Retreat**



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New doctoral students



Patrick Schreier studied Bioanalysis at the University of Applied Sciences Coburg (B.Sc. & M.Sc.). He is primarily supervised by Rocío Lopez-Posadas and Imke Atreya, while working on the Mevalonate-pathway in project A07.

We wish much success in the project and a good start!



Zigra Gabriel is a sixth year medical student at the Charité - Universitätsmedizin Berlin. He joined the AG Siegmund at the end of 2022 to aid in a clinical-experimental study under the helpful supervision of Professor Siegmund and Dr. Haag. The study is aiming to characterize interstitial fluid and its contents from various parts of the colon and terminal ileum via our newly developed mucosal phenotyping platform in ulcerative colitis patients and healthy controls. The overall goal is to create an atlas with the metabolites, proteins and cytokines from different segments of the gut.

We wish much success in the project and a good start!