

**SESSION IV –  
INTESTINAL INFLAMMATION: UNEXPECTED  
PLAYERS**

**CHAIR: AHMED HEGAZY**

- 14:00 – 14:30 **Alison Simmons, Oxford, GB**  
“Cellular remodeling and determinants of barrier breakdown in Inflammatory Bowel Disease”
- 14:30 – 15:00 **Fanny Matheis, New York, US**  
“Interactions between the microbiota, nervous and immune system in the control of intestinal inflammation”
- 15:00 – 15:30 **Christoph Klose, Berlin, DE**  
“Regulation of intestinal inflammation by innate lymphoid cells and the enteric nervous system”
- 15:30 – 16:00 **Iliyan Iliev, New York, US**  
“Fungal microbiota in Immunity and Inflammatory Bowel Disease”
- 16:00 – 16:30 **Natalie Britzen-Laurent, Erlangen, DE**  
“Role of the inflamed intestinal vasculature in IBD”
- 16:30 – 17:00 **COFFEE BREAK**

**SESSION V –  
TACKLING IBD WITH SYSTEMS BIOLOGY**

**CHAIR: MAXIMILIAN WALDNER**

- 17:00 – 17:30 **Severine Vermeire, Leuven, BE**  
“Integrating the IBD trinity of genetics, microbiome and immunity”
- 17:30 – 18:00 **Rinse Weersma, Groningen, NL**  
“The 1000 IBD project: Multi-omics approaches in IBD”
- 18:00 – 18:30 **Raja Atreya, Erlangen, DE**  
“The TRR241 IBDDome: Strategies towards individualized therapy in IBD”
- 18:30 – 18:45 **CLOSING REMARKS**

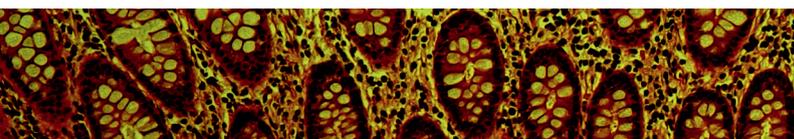
The TRR241 is a joint research initiative of researchers in Erlangen, Berlin, Kiel and Innsbruck supported by the German Research Foundation (DFG). The goal of TRR241 is to better understand the molecular and cellular processes that lead to the development of Inflammatory Bowel Diseases (Crohn's disease and ulcerative colitis). **The driving hypothesis** of our initiative is that a dysregulated signal exchange between the gut epithelium and immune cells and the consequences are key drivers in the pathogenesis of IBD. **Our research network** brings together a group of highly experienced gastroenterologists, immunologists and cellular and molecular biologists with expertise in experimental, translational and clinically-oriented research to ensure the realization of our goals. **The research program** of our consortium has been designed to advance not only basic concepts of IBD development, but also to provide an outstanding platform for translational studies and pre-clinical and clinical testing.

**VISION 2030  
CHANGING PARADIGMS  
IN INFLAMMATORY  
BOWEL DISEASES**

**JUNE 10-11 2021**



**REGISTRATION:**  
<https://roellmedia-streams.de/vision2030>



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10:00 – 10:30 **Welcome and Introduction**  
(Britta Siegmund & Christoph Becker)

**SESSION I –  
COMMUNICATION ACROSS  
THE EPITHELIAL BARRIER**  
**CHAIR: MAGDALENA PRÜB**

10:30 – 11:00 **Matteo Villa, Freiburg, DE**  
“Metabolic adaptation of T cells to the intestinal microenvironment”

11:00 – 11:30 **Claudia Günther, Erlangen, DE**  
„Role of extracellular vesicles as biological shuttle system for inter-kingdom communication and organ crosstalk“

11:30 – 12:00 **Carl Weidinger, Berlin, DE**  
„The role of adipose tissue in the regulation of intestinal autoimmunity“

12:00 – 12:30 **Dirk Haller, München, DE**  
“Functional relevance of microbiome signatures – from cohorts to models”

12:30 – 13:30 **LUNCH BREAK**

**SHORT TALKS –  
PHD STUDENTS OF THE TRANSREGIO 241**  
**CHAIR: MORITZ LEPPKES**

13:30 – 13:45 **Lucas Kreiß, Erlangen, DE**  
“Label-free multiphoton imaging in Inflammatory Bowel Disease”

13:45 – 14:00 **Marilena Letizia, Berlin, DE**  
“Mass cytometry reveals effects of store-operated calcium entry pathway in human intestinal inflammation”

14:00 – 14:15 **Emily Becker, Erlangen, DE**  
“Residual homing of  $\alpha 4\beta 7$ -expressing  $\beta 1+PI16+$  regulatory T cells with potent suppressive activity correlates with exposure-efficacy of vedolizumab”

14:15 – 14:30 **Victoria v. Götze, Berlin, DE**  
“Induction of TGF- $\beta$  receptor signaling by the intestinal microbiota and subsequent modulation of intestinal immune response”

14:30 – 15:00 **COFFEE BREAK**

**SESSION II –  
LUMINAL FACTORS INFLUENCING  
INTESTINAL INFLAMMATION AND BEYOND**  
**CHAIR: SUSANNE KRUG**

15:00 – 15:30 **Petra Bacher, Kiel, DE**  
“Antigen-specific modulation of human CD4+ T cell responses by intestinal microbes”

15:30 – 16:00 **Till Strowig, Braunschweig, DE**  
“Microbial immunoregulation in the gut – the curious case of Prevotella –”

16:00 – 16:30 **Sebastian Winter, Dallas, US**  
“Microbiota metabolism in the inflamed intestine”

16:30 – 17:00 **Melanie Schirmer, Freising, DE**  
“Elucidating host-microbial interactions in Inflammatory Bowel Disease”

17:00 – 17:30 **Daniel Mucida, New York, US**  
“Neuro-immune interactions in the gut”

**SESSION III –  
INTESTINAL INFLAMMATION – KEY PATHWAYS**  
**CHAIR: BRITTA SIEGMUND**

09:00 – 09:30 **Arthur Kaser, Cambridge, GB**  
“Expect the unexpected: core purine metabolism in Crohn’s disease”

09:30 – 10:00 **James Lee, Cambridge, GB**  
“Lessons from genetics: identifying new disease biology in IBD”

10:00 – 10:30 **Fiona Powrie, Oxford, GB**  
TBD

10:30 – 11:00 **Holm Uhlig, Oxford, GB**  
“Antimicrobial immunity – pathogenic mechanisms and therapeutic opportunities?”

11:00 – 11:30 **Chiara Romagnani, Berlin, DE**  
“Transcription factor network in innate lymphoid cells regulates lymph node formation and intestinal homeostasis”

11:30 – 12:00 **COFFEE BREAK**

12:00 – 13:00 **POSTER SESSION**

13:00 – 14:00 **LUNCH BREAK**