



14th Seeon Conference

Microbiota, Probiotics and Host Mikrobiota, Probiotics und Wirt

JUNE 30TH - JULY 2ND, 2022

CONFERENCE CENTER

MONASTERY SEEON

For more information: www.DGHM.org/seeon



PROGRAM Thursday, June 30th

14⁰⁰ – 16⁰⁰ Registration
16⁰⁰ – 16¹⁵ Welcoming: Thomas Clavel, RWTH Aachen, Germany

16¹⁵ – 17⁰⁰ **1st Keynote Lecture: Thaddeus Stappenbeck**, Lerner Research Institute, Cleveland, Ohio, USA:
Shaping immunoglobulin responses by the microbiome
Chair: Dirk Haller, Technical University Munich, Germany

17⁰⁰ – 18⁰⁰ Session 1
MICROBIOME & INFLAMMATION

Taubenheim Jan, *Research Group Medical System Biology, Institute of Experimental Medicine, University of Kiel, Germany*

Metabolic microbiome-host interactions and its role in inflammatory bowel disease

Häcker Deborah, *Technical University of Munich, Chair of Nutrition and Immunology, Freising-Weihenstephan, Germany*

Exclusive enteral nutrition drives protective microbiome modulation in pediatric crohn's disease

Sander Anika, *Intestinal Microbiology Research Group, Department of Molecular Toxicology, German Institute of Human, Nutrition, Potsdam-Rehbruecke, Nuthetal, Germany*

Influence of intestinal Hyperbilirubinemia on the gut microbiota and colonic inflammation

Steimle Alex, *Luxembourg Institute of Health, Esch-sur-Alzette, Luxembourg*

Targeted gut microbiota modulation alters autoimmune neuroinflammation

18¹⁵ – 19⁴⁵ Dinner

20⁰⁰ – 21³⁰ **Poster Slam** (2 minutes / 2 slides)

PROGRAM Friday, July 1st

09⁰⁰ – 09⁴⁵ **2nd Keynote Lecture: Bas Dutilh**, Viral Ecology and Omics Group, Friedrich Schiller University Jena, Germany / Metagenomics Group, Utrecht University, The Netherlands:

Mapping the Microverse and modelling its drivers

Chair: Bärbel Stecher-Letsch, Max von Pettenkofer Institute/ LMU Munich, Germany

09⁴⁵ - 10⁴⁵ Session 2

ECOLOGY & MANIPULATION

Krause Jannike L., German Rheumatism Research Center Berlin - A Leibniz Institute, DRFZ, Schwiete Laboratory for Microbiota and Inflammation, Berlin, Germany

Sample logistics affect structural and functional profiles of faecal microbiota

Ruple Hannah, Dept. of Microbiome Research and Applied Bioinformatics, University of Hohenheim, Stuttgart, Germany

Donor strain engraftment in patients with irritable bowel syndrome after fecal microbiota transplantation

de Hoog Almási Éva, Microbial Immune Regulation, Helmholtz Centre for Infection Research, Braunschweig, Germany

Understanding the impact of sugar utilization in pathogenic-commensal *Klebsiella* competition in the gut with CRISPR-Cas9

von Strempel Alexandra, Max von Pettenkofer-Institut, LMU Munich, Germany

Targeted design and manipulation of defined microbial consortia by bacteriophages

10⁴⁵ – 11¹⁵ Coffee Break / **Poster at the first glance**

11¹⁵ – 12¹⁵ Session 3

MICROBE & HOST

Ortiz Diego, Microbial Immune Regulation, Helmholtz Centre for Infection Research, Braunschweig, Germany

Influence of probiotic-modulated microbiota on the immune system and infection susceptibility of preterm newborns

Grießhammer Anne, Interfaculty Institute of Microbiology & Infection Medicine Tübingen + Cluster of Excellence "Controlling Microbes to Fight Infections", University of Tübingen, Germany

Exploring the impact of non-antibiotic drugs on colonization resistance to enteric pathogens

Viehof Alina, Functional Microbiome Research Group, RWTH University Hospital, Aachen, Germany

Intestinal *Coriobacteriia* influence host metabolism

Hoffard Nils, Department of Dermatology and Allergy Biederstein, School of Medicine, Technical University of Munich, Munich, Germany

Bacteria mediated immunomodulation of food allergy

12¹⁵ – 13⁴⁵ Lunch

13⁴⁵ – 14³⁰ **3rd Keynote Lecture: Hauke Smidt**, Wageningen University & Research, The Netherlands :
Unlocking microbiomes diversity for human, animal and environmental health
Chair: Thomas Clavel, RWTH Aachen, Germany

14³⁰ – 15³⁰ Session 4

DIVERSITY, METABOLISM & EVOLUTION

Krasenbrink Julia, *Division of Microbial Ecology, University of Vienna, Austria*
Role of the exclusive nutrient sulfoquinovose in gut microbiome-mammalian host symbiosis

Omer Hélène, *Technical University of Munich, Chair of Nutrition and Immunology, Freising-Weihenstephan, Germany*

Impact of *Desulfovibrio* spp. and sulfur metabolism on the pathogenesis of chronic intestinal inflammation and colitis-associated cancer

Andreani Nadia Andrea, *Max Planck Institute for Evolutionary Biology, Plön + Kiel University, Kiel, Germany*

Bacterial evolution during chronic inflammation in the intestine

von Armanberg Benedikt, *Max von Pettenkofer-Institute of Hygiene and Medical Microbiology, Faculty of Medicine, LMU Munich + German Center of Infection Research (DZIF), Partner Site Munich, Germany*

Influence of human-targeted drugs on virulence factor regulation in EHEC

15³⁰ – 16⁰⁰ Coffee Break

16⁰⁰ – 17⁰⁰ Hot Topic 1 – **Pascale Vonaesch**, University Lausanne, Switzerland:
The intestinal microbiota in childhood undernutrition

Hot Topic 2 – **Lisa Maier**, University Tübingen, Germany:
Dissecting the interactions between commonly used drugs and the human gut microbiota

Chair: Mathias Hornef, RWTH Aachen, Germany

17¹⁵ – 17⁴⁵ DGHM Fachgruppenmeeting 05 (only for members)

17¹⁵ – 19³⁰ **POSTER SESSION**

19³⁰ Dinner

PROGRAM Saturday, July 2nd

09⁰⁰ – 09⁴⁵ **4th Keynote Lecture: Florent Malard**, Sorbonne Université, Hôpital Saint-Antoine, Paris, France:
Modulation of the microbiota in patients with hematologic malignancies
Chair: Maria J. G. T. Vehreschild, University Hospital Frankfurt, Germany

09⁴⁵ – 10⁴⁵ Session 5
MICROBIOME & CANCER

Stein-Thoeringer Christoph, *Deutsches Krebsforschungszentrum (DKFZ) and Nationales Centrum für Tumorerkrankungen (NCT), Heidelberg, Germany*

A non-antibiotic disrupted gut microbiome predicts the clinical outcomes of CAR-T cell immunotherapy

Zhang Boyao, *Structural and Computational Biology Unit, European Molecular Biology Laboratory, Heidelberg, Germany*

Gut microbiota carcinogen metabolism causes distant tissue tumours

Brunner Valentina, *Institute of Translational Cancer Research and Experimental Cancer Therapy, Klinikum Rechts der Isar, School of Medicine + TranslaTUM, Center for Translational Cancer Research, Technical University of Munich, Germany*

Introduction of a modular and rapid approach to study microbial dependencies of colorectal tumor progression in germ-free mice

Grant Erica T., *Luxembourg Institute of Health + University of Luxembourg, Esch-sur-Alzette, Luxembourg*

Reduced dietary fiber intake in humans increases gut bacterial mucolytic activity

10⁴⁵ – 11¹⁵ Coffee Break

11¹⁵ – 12¹⁵ Hot Topic 3 – **Melanie Schirmer**, Technical University Munich, Germany:

Metabolic and functional disruptions of the microbiome in disease

Hot Topic 4 – **Marianne Grognot**, RWTH University Hospital, Aachen, Germany:

Biophysics of swimming: a quantitative dive into bacterial navigation in mucus-mimicking environments

Chair: Till Strowig, Helmholtz Centre for Infection Research, Braunschweig, Germany

12¹⁵ – 12⁴⁵ **Awards & Farewell**

12⁴⁵ Lunch-to-go

13⁰⁰ Shuttle to airport + train station