# Functional and Clinical Relevance of Microbiome Signatures

**July 06 – July 08, 2022, CEST - Virtual Symposium**

### Infection (Chair: Lindsay Hall, Barbara Stecher)
- **3:00 p.m.** Welcome and Introduction (Dirk Haller)
- **3:15** Yael Litvak (Hebrew University) - Shiga toxin-mediated pathogen expansion in the gut
- **3:30** Anna Weiß (P08) - Nutritional environment influences species interactions and community assembly in a synthetic gut bacterial community
- **4:15** Debby Bogaert (University of Edinburgh) - The early life microbiome; key to infection and protection?
- **4:55** Anna Raiser (P09) - Helicobacter pylori infection and microbiota dependent colonic pathologies
- **5:15** John Penders (Maastricht University) - The travelers’ microbiome and its role in colonization resistance and post-infectious IBS
- **5:55** Estefany Diaz (Johns Hopkins University) - New understanding of mucosal immunity during homeostasis and infection

### Inflammation (Chair: Tom Clavel, Klaus Janssen)
- **3:00 p.m.** Introduction
- **3:05** Eric Alm (MIT) - How to build a microbiome therapeutic?
- **3:45** Deborah Häcker (P01) - Exclusive enteral nutrition drives protective microbiome modulation in pediatric Crohn’s disease
- **4:05** Rinse Weersma (Groningen University) - Gut microbial signatures in health and disease and the influence of intrinsic and extrinsic factors
- **4:45** Sebastian Jarosch (P04) - GvHD severity is linked to clonal expansion of CD8 T cells and microbiota dependent immune regulation
- **5:25** Cynthia Sears (Johns Hopkins University) - Building the evidence for the microbiome’s contribution to colon cancer
- **6:05** Martin Kriegel (Yale University) - Host-microbiota interactions in non-gut autoimmunity
- **6:30** Adam Wahida (P02) - Loss of XIAP is a gut punch – What can we learn about aberrant host-microbiota interactions in a model of TNF driven intestinal inflammation?
- **6:45** Nils Hoffard (P06) - Bacteria mediated immunomodulation of food allergy

### Cancer (Chair: M. Tschurtschenthaler, Georg Zeller)
- **3:00 p.m.** Introduction
- **3:05** Sean Colgan (University of Colorado) - Microbiota-dependent control of mucosal barrier and wound healing
- **3:45** Johannes Plagge (P13) - The gut microbiota inhibits intestinal lipid absorption
- **4:05** Ghaith Bakdash (Microbiota Inc.) - MB097: A clinically defined therapeutic consortium of bacteria with potent anti-tumor efficacy
- **4:45** Esther Wortmann (P14) - Causal role of secondary bile acid-producing bacteria in colorectal cancer
- **5:05** Nils Hoffard (P06) - Bacteria mediated immunomodulation of food allergy
- **5:25** Max Hohmann (P16) - Discovery and functional analysis of cytotoxic small molecules from the gut microbiota by direct pathway cloning
- **6:05** Martin Kriegel (Yale University) - Host-microbiota interactions in non-gut autoimmunity
- **6:10** Cynthia Sears (Johns Hopkins University) - Building the evidence for the microbiome’s contribution to colon cancer
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### Session Break

### Infection II (Chair: Li Deng, Markus Gerhard)
- **5:00** Malte Rühlemann (IKMB Kiel) - Genetics and evolution as factors shaping the human microbiota and their link to chronic inflammation
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### Podcast Recording

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Login code will be sent before the symposium upon registration