



Friedrich Merz (1884 - 1979)



## FRIEDRICH MERZ VISITING FELLOWSHIP ENDOWMENT

SCIENTIFIC SYMPOSIUM

# DIETARY AND THERAPEUTIC MICROBIOME MODULATION: STATE OF THE ART AND PERSPECTIVES

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NOVEMBER 13<sup>TH</sup>  
9:00 AM - 5:30 PM

**UNIVERSITY HOSPITAL FRANKFURT**

Theodor-Stern-Kai 7, 60596 Frankfurt am Main  
Building 6, Lecture Hall Pathology



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### DIETARY AND THERAPEUTIC MICROBIOME MODULATION: STATE OF THE ART AND PERSPECTIVES

9:00 - 9:15	<b>WELCOMING</b>
9:15 - 10:00	<b>KEY NOTE LECTURE</b> <b>Industrialization of the Gut Microbiome and the Rise of Chronic Inflammatory Disease</b> <b>Justin &amp; Erica Sonnenburg</b> , <i>Department of Microbiology and Immunology, Stanford University, CA, USA</i>
10:00 - 10:50	<b>SESSION 1 - THE HUMAN MICROBIOME: EVOLUTIONARY DYNAMICS AND ANTIMICROBIAL INNOVATION</b> <ul style="list-style-type: none"><li>• <b>The human microbiome: a source of and target for new antimicrobial strategies</b> <b>Andreas Peschel</b>, <i>Interfaculty Institute of Microbiology and Infection Medicine Eberhard-Karls-University Tübingen, Germany</i></li><li>• <b>Within-host evolution promotes colonization resistance against enteric pathogens</b> <b>Bärbel Stecher</b>, <i>Max von Pettenkofer Institute of Hygiene and Medical Microbiology, Ludwig-Maximilians-University Munich, Germany</i></li></ul>
10:50 - 11:05	<b>COFFEE BREAK</b>
11:05 - 12:20	<b>SESSION 2 - INNOVATIONS IN GUT MICROBIOME RESEARCH: FROM DECOLONIZATION TO DIET-DRIVEN APPROACHES</b> <ul style="list-style-type: none"><li>• <b>Gut decolonization of multidrug-resistant Enterobacterales via the microbiota</b> <b>Till Strowig</b>, <i>Department for Microbial Immune Regulation, Helmholtz Centre for Infection Research, Braunschweig, Germany</i></li><li>• <b>Next steps in gut microbiome research using anaerobic cultivation</b> <b>Thomas Clavel</b>, <i>Institute of Medical Microbiology, RWTH University Hospital, Aachen</i></li><li>• <b>Diet-Microbiome axis: When the poison is the cure</b> <b>Canan Arkan</b>, <i>Institute for Tumor Biology and Experimental Therapy, Georg-Speyer-Haus, Frankfurt, Germany</i></li></ul>



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12:20 - 12:35	COFFEE BREAK
12:35 - 13:50	<p><b>SESSION 3 - CLINICAL VIEW I: DIETARY AND MICROBIOME INTERVENTIONS IN IBD AND METABOLIC DISEASES</b></p> <ul style="list-style-type: none"> <li>• <b>From low caloric diets to the Hungry Microbiome Theory</b> <b>Reiner Jumpertz-von-Schwartzenberg</b>, <i>Department for Endocrinology and Diabetology, University Hospital Tübingen, Germany</i></li> <li>• <b>Therapeutic mechanisms of exclusive enteral nutrition in Crohn's disease</b> <b>Dirk Haller</b>, <i>Department for Nutrition and Immunology, Ludwig-Maximilians-University Munich, Germany</i></li> <li>• <b>Microbiota in IBD- therapeutic goal or tinsel?</b> <b>Irina Blumenstein</b>, <i>Department of Gastroenterology, Hepatology, and Clinical Nutrition, University Hospital Frankfurt, Germany</i></li> </ul>
13:50 - 15:20	LUNCH
15:20 - 16:20	<p><b>SESSION 4 - CLINICAL VIEW II: MENTAL HEALTH &amp; INFECTIOUS DISEASES - INTERACTIONS, IMPLICATIONS, AND INNOVATIVE THERAPIES</b></p> <ul style="list-style-type: none"> <li>• <b>The interaction between psychotropic drugs and human gut microbiota</b> <b>Jan Homolak</b>, <i>Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, Germany</i></li> <li>• <b>Mind your microbes: findings on the role of the gut microbiome for mental health</b> <b>Silke Matura</b>, <i>Department of Psychiatry, Psychosomatic Medicine and Psychotherapy, Goethe University Frankfurt, Germany</i></li> <li>• <b>Considerations for the use of phage therapy</b> <b>Silvia Würstle</b>, <i>Department of Medicine II, Infectious Diseases, University Hospital Frankfurt, Germany</i></li> </ul>
16:20 - 16:35	COFFEE BREAK



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16:35 - 17:25	<p><b>SESSION 5 - ADVANCED STRATEGIES IN GUT MICROBIOTA MODULATION: FROM FECAL TRANSFERS TO PRECISION DELIVERY SYSTEMS</b></p> <ul style="list-style-type: none"><li>• <b>Modulating the gut microbiota: From Fecal Microbiota Transfer To Live Biotherapeutic Product</b> <b>Maria Vehreschild</b>, <i>Department of Medicine II, Infectious Diseases, University Hospital Frankfurt, Germany</i></li><li>• <b>Tailor-made carrier systems for controlled delivery of actives for microbiome modulation</b> <b>Maïke Windbergs</b>, <i>Institute for Pharmaceutical Technology and Buchmann Institute for Molecular Life Sciences, Goethe-University Frankfurt, Germany</i></li></ul>
17:30 - 20:00	<b>GET TOGETHER</b>