
ENGIHR Conference: The Gut Microbiota Throughout Life

The European Network for Gastrointestinal Health Research (ENGIHR)
Research Networking Programme, European Science Foundation



Max Rubner-Institut, Karlsruhe (Germany), 24th-26th September

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Programme

Wednesday 24th September

19:00 Registration, Welcome & Evening Buffet. Badisch Brauhaus, Karlsruhe.

Thursday 25th September

09:00 Introduction: Bernhard Watzl, Max Rubner-Institut (host)

09:30 **Session 1: Establishment of the gut microbiota during infancy.** Chair: Maria Saarela

Maria Jenmalm (Linköping University, Sweden)

The role of the infant gut microbiota in shaping immune and allergy development during childhood

Maria Carmen Collado (IATA-CSIC, Valencia, Spain)

Contribution of maternal microbiota to infant health

10:45 Coffee Break

11:15 **Jan Knol** (Wageningen University, The Netherlands)

Intestinal microbiology in Early Life; nutrition, health and disease

12:00 **Session 2: Maintenance and stability of the gut microbiota.** Chair: Bernhard Watzl

Kieran Tuohy (Research and Innovation Centre, Fondazione Edmund Mach, Trento, Italy)

Diet : Microbe interactions - ecosystem support

13:00 Lunch

14:00 **Anne Salonen** (University of Helsinki, Finland)

Dietary Responsiveness of the Human Intestinal Microbiota

Charles Franz (Max Rubner-Institut, Karlsruhe, Germany)

Inter-individual trans-resveratrol metabolism by the gut microbiota

Sylvia Duncan (Rowett Institute, UK)

Predicting the impact of diet composition on the human intestinal microbiota

16:00 Coffee Break

Poster Presentations

17:00 **Keynote Talk:** **Liping Zhao** (Shanghai Center for Systems Biomedicine, China)

Gut microbiota and metabolic diseases: Hunting down the key players

Evening: Conference Dinner: Hotel Leonardo, Ettlinger Strasse 23, 76137 Karlsruhe

Programme

Friday 26th September

09:00 **Session3: Changes in the gut microbiota during ageing.** Chair: Jose Teixeira

Collin Hill (Alimentary Pharmabiotic Centre, Cork, Ireland)

Gut microbiota composition correlates with diet and health in the elderly – The ELDERMET story

Gemma Walton (University of Reading, UK)

The ageing gut microbiota and the impact of prebiotics

10:30 Coffee Break

Miguel Gueimonde (IPLA-CSIC, Villaviviosa, Spain)

Microbiota, immunological and nutritional parameters at old-age: opportunities for the development of functional foods for the elderly

Saskia Van Hemert (Winclove Probiotics, The Netherlands)

Manipulating the gut microbiota to maintain health and treat disease

12:00 **Selected Short Oral Presentations.** Chairs: Margaretta Nyman, Charles Franz, Ingolf Nes

Wing Sun Faith Chung (Rowett Institute of Nutrition & Health, Aberdeen, UK)

Modulation of the human gut microbiota by prebiotics is pH dependent

Ravi Anuradha (Norwegian University of Life Sciences,, Ås, Norway)

Transmission and persistence of multidrug resistance in the human infant gut microbiota

Blessing Anonye (Wellcome Trust Sanger Institute, Cambridge, UK)

Restoration of the Intestinal Microbiota of Individuals with Severe Clostridium difficile Disease

13:00 Lunch

14:00 **Selected Short Oral Presentations (continued)**

Almut Heinken (Luxembourg Centre for Systems Biomedicine, Luxembourg)

A computational framework for human-microbial co-metabolism

Elvira Barroso (CSIC-UAM, Madrid, Spain)

The impact of Lactobacillus plantarum IFPL935 on the composition and activity of a complex microbiota developed in a simulator of the Human Intestinal Microbial Ecosystem

Özgün Candan Onarman Umu (Norwegian University of Life Sciences,, Ås, Norway)

Gut microbiota structure of growing pigs fed with two physicochemically different dietary fiber diets- alginate and resistant starch diets

Lorena Valdes Varela (IPLA-CSIC, Villaviviosa, Spain)

Designing probiotic and prebiotic products for seniors

Jelena Štšepetova (University of Tartu, Tartu, Estonia)

Quantitative changes of lactobacillus and bifidobacterium sp. in human intestinal tract of different age groups

15:45 Coffee Break

16:00 Closing Talk: **Peer Bork** (European Molecular Biology Laboratory (EMBL), Germany)
Metagenomic analysis of the human gut microbiome

16:45 Closing Comments: Seve Pandiella (Chair, ENGIHR)

CONFERENCE AIMS: This conference will focus on the intestinal microbiota throughout the lifetime of the host. Three Speaker Sessions, consisting of state-of-the-art talks by leading researchers will focus on the establishment of the gut microbiota, the maintenance of the gut microbiota (with reference to diet), and changes in the gut microbiota during ageing.

Sessions will focus on several topics including:

Factors important in the establishment of the gut microbiota in infants

Composition of the infant microbiota and predisposition to disease

The use of pre- and probiotics in infants to prevent disease

The role of the diet in determining the composition of the intestinal microbiota

Changes in diet and the impact on microbiota composition

Bacterial metabolites and their role in health and disease

Investigating the gut microbiota of the elderly

The role of the gut microbiota in health and disease in the elderly

Factors influencing the intestinal microbiota composition of the elderly

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