

B-DEBATE

International Center
for Scientific Debate
BARCELONA



THE BARCELONA DEBATES ON THE HUMAN MICROBIOME

FROM MICROBES TO MEDICINES

Thursday, June 30th, 2016

PRELIMINARY PROGRAM

COSMOCAIXA BARCELONA . C/ISAAC NEWTON, 26

9:00 **Welcome**

9:30 **SESSION 1: THE MICROBIOME IN CHILDHOOD**

Chairs: **Eduard Monsó**, Hospital Parc Taulí, Barcelona, Spain

Elena Carreras, Hospital Universitari Vall d'Hebron, Barcelona, Spain

9:30 **The Microbiome Before Birth**

Kjertsti M. Aagaard, Baylor College of Medicine in Houston, Texas, USA

10:00 **Asthma and the Infant Microbiome**

Stuart Turvey, University of British Columbia, Vancouver, Canada

10:30 **Discussion**

11:00 **Coffee break**

11:30 **SESSION 2: CANCER**

Chairs: **Núria Malats**, CNIO, Madrid, Spain

11:30 **The Microbiome in Cancer Immunology**

Laurence Zitvogel, Institut Gustave Roussy, Paris, France

12:00 **Cancer, Diet and Microbiome**

Rashmi Sinha, National Cancer Institute, Washington, USA

12:30 **Discussion**

13:00 **Lunch**

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14:00 SESSION 3: VIRUSES AND THE VIROME

Chairs: **Bonaventura Clotet**, IrsiCaixa Aids Research Institute, Badalona, Spain
Daria Hazuda, Merck, Philadelphia, USA

14:00 HIV and the Gut Microbiome

Roger Paredes, IrsiCaixa Aids Research Institute, Badalona, Spain

14:30 The Intestinal Human Virome

Rick Bushman, Perelman School of Medicine, Philadelphia, USA

15:00 Discussion

15:30 Coffee break

16:00 SESSION 4: GUT BACTERIA: ANTIMICROBIAL RESISTANCE AND MORTALITY

Chairs: **David Valcárcel**, Hospital Universitari Vall d'Hebron, Barcelona, Spain
Miquel Sabrià, Hospital Germans Trias i Pujol, Badalona, Spain

16:00 Antimicrobial Resistance and the Microbiome

Silvia Caballero, Memorial Sloan Kettering Cancer Center, New York, USA

16:30 Gut Bacterial Diversity and Mortality after Stem Cell Transplantation

Eric G. Pamer, Memorial Sloan Kettering Cancer Center, New York, USA

17:00 Discussion

17:30 Poster Presentation (Cheese & Wine)

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8:30 SESSION 5: BREAKFAST WITH THE EXPERTS

8:30 Oral Presentation of the 3 best posters (3 posters and 10 minutes presentation each)
Chair: **Francisco Guarner**, Vall d'Hebron Research Institute, Barcelona, Spain

9:00 Feedback from the Experts & Open Discussion

Experts

Francisco Guarner, Vall d'Hebron Research Institute, Barcelona, Spain

Gary Wu, Perelman School of Medicine, Philadelphia, USA

Peer Bork, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany

S. Dusko Ehrlich, Kings College London, London, United Kingdom

9:30 SESSION 6: HOST-MICROBES INTERACTIONS

Chairs: **Toni Gabaldón**, Center for Genomic Regulation, Barcelona, Spain

Marc Noguera, IrsiCaixa Aids Research Institute, Badalona, Spain

9:30 Strain-level microbial epidemiology and population genomics from shotgun metagenomics

Nicola Segata, University of Trento, Trento, Italy

10:00 Perturbing the human gut microbiome: Impact of drugs and fecal microbiota transplantation

Peer Bork, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany

10:30 Discussion

11:00 Coffee break

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- 11:30 SESSION 7: WHAT ARE THE GUT MICROBES DOING?**
Chairs: **M. Luz Calle**, Universitat de Vic, Vic, Spain
- 11:30 Metabolic activity in response to Food in the Human Gut**
Fernando Azpiroz, Vall d'Hebron Research Institute, Barcelona, Spain
- 12:00 Metatranscriptomics in the Gut**
Chaysavanh Manichanh, Vall d'Hebron Research Institute, Barcelona, Spain
- 12:30 Discussion**
- 13:00 Lunch**
- 14:00 SESSION 8: DIET AND METABOLIC DISORDERS**
Chairs: **Ramon Estruch**, Hospital Clinic de Barcelona, Barcelona, Spain
- 14:00 Inflammation, Antibiotics, and Diet as Environmental Stressors of the Gut Microbiome**
Gary Wu, Perelman School of Medicine, Philadelphia, USA
- 14:30 Strain level dissection of Gut Microbiome contribution to human Metabolic Disorders**
Liping Zhao, Shanghai Jiao Tong University, Shanghai, China
- 15:00 Discussion**
- 15:30 Coffee break**

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16:00 SESSION 9: FMT AND PROBIOTICS

Chairs: **Jordi Guardiola**, Hospital Universitari de Bellvitge, Barcelona Spain
German Soriano, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain

16:30 Mining new probiotics from FMT studies

Max Nieuwdorp, AMC Amsterdam, The Netherlands

16:30 Developing Medicines from the Human Microbiome

Bernat Ollé, Vedanta Biosciences, Boston, USA

17:00 Discussion

17:30 CLOSING LECTURE

Chair: **Francisco Guarner**, Vall d'Hebron Research Institute, Barcelona, Spain

Insights into the Future of Microbiota Studies in Medicine

S. Dusko Ehrlich, Kings College London, London, UK

18:00 Adjourn

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