

Microbial Communities: Function, Structure, and Complexity

Organized in the frame of MICOBION Project H2020

BIOCEV, Průmyslová 595, Vestec 252 50 · Czech Republic
Main Conference Hall · www.biocev.eu

Wednesday November 2

Tuesday November 3

Friday November 4

Protists and Parasites

Chair: **Jan Tachezy** / MICOBION Project Coordinator

- 09:00 **Welcome Address**
by **Jan Tachezy and Agne Dobranskyte-Niskota** (Research Executive Agency, European Commission)
- 09:10 **The strange case of Dr. Jekyll and Mr. Hyde: how endosymbionts may influence the pathophysiology of *Trichomonas vaginalis***
Luigi P. Fiori / The University of Sassari, Italy
- 09:50 **Comparative genomics and transcriptomics of *Trichomonas*: new insights into parasite-microbiota interactions**
Rober Hirt / Newcastle University, UK

10:30 - 10:45 **Coffee Break** - Foyer at the Conference Hall

- 10:45 ***Trichomonas vaginalis* interactions with the vaginal microbiome**
Nadine Zimmann and Jan Tachezy / Faculty of Science, Charles University
- 11:05 **Metabolic interactions between *Monocercomonoides exilis* and its bacterial community**
Vladimír Hampl / Head of Laboratory, Faculty of Science, Charles University (BIOCEV)
- 11:25 **Function and biogenesis of pathogen specific organelles in *Giardia intestinalis***
Pavel Doležal / Head of Laboratory, Faculty of Science, Charles University (BIOCEV)

11:45 - 13:00 **Lunch**

Integrated multiomics analyses

Chair: **Pavel Stopka** / Head of Laboratory, Faculty of Science, Charles University (BIOCEV)

- 13:00 **Introduction**
by **Pavel Stopka**
- 13:10 **Cell type specific infection in the respiratory tract**
Colin Bingle / Professor of Respiratory Cell and Molecular Biology, The University of Sheffield, UK
- 14:00 **Can we use ecology to predict function in the microbiome?**
Laura Wegener Parfrey / Assistant Professor, Department of Botany, University of British Columbia, Canada
- 14:50 **Dynamics of vaginal microbiota during mouse estrus**
Romana Stopková / Faculty of Science, Charles University (BIOCEV)
- 15:05 **Orthohantaviruses in reservoir and spillover hosts**
Jana Kvičeroová / Department of Parasitology, Faculty of Science, University of South Bohemia in České Budějovice

15:20 **Closing remarks**

MICOBION to Industry

16:00 - 18:00 **International science-to-business partnering event**

- Panel of experts sharing their expertise and case studies of collaboration with industry
- Open discussion with industry experts - what does the industry needs?
- [More info](#)



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Methods / Transfer

Chair: **Vladimír Beneš** / Head of Genomics Core Facility, EMBL - Heidelberg

- 09:00 **Introduction**
by **Vladimír Beneš**
- 09:05 **Identify microbiota contributions to xenobiotic metabolism and toxicity**
Michael Zimmermann / EMBL
- 09:45 **The Simple Light Isotope Metabolic Labeling strategy (SLIM-L), a new and powerful approach to address the dynamics of proteome variations at the intact protein level**
Jean-Michel Camadro / Université Paris Diderot, Institut Jacques Monod General
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- 10:30 - 10:45 **Coffee Break** - Foyer at the Conference Hall
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- 10:45 **Developing new model organisms for the human microbiome**
Carlos Voogdt / Postdoctoral Fellow (EIPOD), EMBL
- 11:05 **Gut microbiota carcinogen metabolism causes distant tissue tumours**
Boyao Zhang / Predoctoral Fellow, EMBL
- 11:25 *Speaker and title to be confirmed soon*

11:45 - 13:00 **Lunch**

Virology

Chair: **Ruth Tachezy** / Head of Laboratory, Faculty of Science, Charles University (BIOCEV)

- 13:00 **Introduction**
by **Ruth Tachezy**
- 13:05 **Cervicovaginal microbiome and host response influence HPV infection and disease outcomes**
Robert Burk / Professor and Vice Chair, Albert Einstein College of Medicine, NYC, US
- 13:50 **Community Types Of The Human Gut Virome Are Associated With Endoscopic Outcome In Ulcerative Colitis**
Daan Jansen / Rega Institute, Laboratory of Viral Metagenomics, KU Leuven
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- 14:35 - 14:50 **Coffee Break** - Foyer at the Conference Hall
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- 14:50 **Human gut viromes and the exposomic investigations in type 1 diabetes and celiac disease**
Ondřej Cinek / Department of Paediatrics, Second Faculty of Medicine, Charles University
- 15:15 **Analysis of aspartate b-hydroxylase signaling by transcriptomics**
Shweta Dilip Johari / Faculty of Science, Charles University (BIOCEV)
- 15:40 **Virome of bees**
Dominika Kadlečková / Faculty of Science, Charles University (BIOCEV)
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- 16:05 **Closing remarks**

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Yeast

Chair: **Zdena Palková** / Head of Laboratory, Faculty of Science, Charles University (BIOCEV)

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- 09:00 **Introduction**
by **Zdena Palková**
- 09:05 **Novel Warbicin® family of phosphorylation-dependent glucose-uptake inhibitors in yeast and human cells as potential anti-cancer drugs**
Johan Thevelein / Managing Director, NovelYeast
- 09:50 **Genetic basis of 2-deoxyglucose resistance in yeast**
Sebastien Leon / Group Leader, Institut Jacques Monod
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- 10:35 - 11:00 **Coffee Break** - Foyer at the Conference Hall
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- 11:00 **Metabolic differentiation of invasive and surface cells of yeast colony biofilms.**
Jana Maršíková / Faculty of Science, Charles University (BIOCEV)
- 11:20 **GA new insight into the mitochondrial retrograde pathway and its role in yeast colony development**
Vítězslav Plocek / Faculty of Science, Charles University (BIOCEV)
- 11:40 **Genome-wide approaches to studying yeast populations**
Michal Čáp / Faculty of Science, Charles University (BIOCEV)
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- 12:00 **Closing Remarks**