

Microbiome Network Meeting Berlin – Brandenburg



August 28th – 29th, 2023
@Veterinarium Progressum
Oertzenweg 19b, 14163 Berlin (Düppel)

Symposium for early career scientists working on microbiome research (human, animal, environmental or bioinformatics).

Organized by PhD students and postdocs for peers to increase the network of microbiome researchers in Berlin.

Keynote speakers:

Elizabeth Archie (University of Notre Dame)

Kathy McCoy (University of Calgary)

Naama Geva-Zatorsky (Technion Israel Institute of Technology)

Nicola Segata (University of Trento)

We are looking forward to seeing you!

Organizers and sponsors

Amelie Weber (Charité), Anna Fagundes (Charité), Ankur Midha (Freie Universität), Víctor Hugo Jarquín-Díaz (MDC)

email: mibinetworkbb@gmail.com



ILLUSTRATION BY ANTOINE DORÉ

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Program

Day 1

09.30 – 10.00h	Arrival, registration, putting up of posters, coffee
10.00 – 10.20h	Welcome and introduction
10.20 – 11.00h	Keynote talk – Session chair: Víctor Hugo Jarquín Díaz

Nicola Segata – Centre for Integrative Biology (CIBIO) at University of Trento, ITA
“Computational Metagenomics of the Human Microbiome: from tools to biomedical applications”

11.00 – 12.00h	Session I: Computational biology applications for microbiome studies
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Ulrike Löber – *Flaws in 16S sequencing of low biomass samples*

Alvaro Rodriguez del Rio – *Functional and evolutionary significance of unknown genes from uncultivated taxa*

Morgan Essex – *Considerations for the identification of differentially abundant taxa in (confounded) human microbiome studies*

12.00 – 13.20h	Lunch + Networking
13.20 – 14.00h	Keynote Talk – Session chair: Ankur Midha

Naama Geva-Zatorsky – Technion Israel Institute of Technology, Israel
“Functional Plasticity in gut microbe–host interactions”

14.00 – 15.00h	Session II: Ecological dynamics in the microbiome
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Felix M. Key – *Within-patient eco-evolutionary mechanisms promoting opportunistic, nosocomial infections*

Aditi Gurung – *Priority effects in the gut: strain-dependent order-of-arrival effects in gut microbiome assembly affects host fitness in Daphnia*

Robert Bücking – *First come, first served: Deciphering the colonization of the infant gut ecosystem*

15.00 – 15.20h	Coffee break + Networking
15.20 – 16.30h	Poster session
16.30 –	Open grill

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Day 2

09.30 – 10.00h

Arrival – Setting up – Coffee briefing

10.00 – 10.40h

Keynote talk – Session chair: Amelie Weber

Kathy McCoy – Dept. Of Physiology & Pharmacology at University of Calgary, CAN
“Microbes, Metabolites and Immunity”

11.00 – 12.00h

Session III: Host-microbiome interactions I

Catalina Cosovanu – *Host-microbiota interactions in the control of intestinal pathobionts*

Annika Oßwald – *Microbially produced deoxycholic acid promotes colonic tumorigenesis in an experimental gnotobiotic mouse model*

Hendrik Bartolomaeus – *Targeted Antibiotic Modulation of the Gut Microbiome Ameliorates Hypertensive Organ Damage*

12.00 – 13.20h

Lunch + Networking

13.20 – 14.00h

Keynote talk – Online – Session chair: Anna Fagundes

Elizabeth Archie – Dept. of Biological Sciences at University of Notre Dame, USA
“Personalized dynamics and universal microbial relationships in the gut microbiota of wild baboons” – Online

14.00 – 15.00h

Session IV: Host-microbiome interactions II

Aranzazu Arias-Rojas – *Microbiota cell surface charges mediate the resistance to host antimicrobial effectors during the infection and the onset of Drosophila aging*

Valentin Vecera – *Cardiovascular phenotype and inflammation in mice colonized with microbiota from humans with chronic kidney disease*

Yi Yu – *Gut Microbiome Exacerbates Infections by Altering Host Immune Response: Insights from Drosophila Model*

15.00 – 15.20h

Coffee break + Networking

15.20 – 17.00h

Science slam hosted by Ankur Midha

Wine/beer + pretzels + Networking

Award ceremony and closure of the event