Hologenomic Solutions for 21st Century Challenges

30th June - 2nd July 2024, Copenhagen, Denmark

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Sunday, 30th of June 2024

15.00 – 16.30	Arrival Registration Poster Setup Networking	
16.30 – 16.40	Welcome Talk	Prof. Tom Gilbert [UCPH]
16.40 - 17.30	Introductory Keynote:	
	The Holobiont Imperative –	Prof. Thomas Bosch [Kiel Life Science Center]
	Why We Have to Rethink (Our) Nature	
17.30 - 18.30	Moderated Discussion with Audience / Q&A:	Assoc. Prof. Antton Alberdi [UCPH] (Moderator)
	Life, the Holobiont, and Everything	Prof. Thomas Bosch [Kiel Life Science Center]
		Prof. Monica Medina [Pennsylvania State University]
18.30 - 20.30	Welcome Reception	

Venue information

The Christian Hansen Auditorium, Kommunehospital, Øster Farimagsgade 5, Copenhagen, Denmark Click here for venue details.



Funding and Acknowledgement

The Applied Hologenomics Conference 2024 has been principally funded by the Novo Nordisk Foundation.

The conference is locally organised by the Center for Evolutionary Hologenomics (CEH) at the University of Copenhagen, Denmark. Co-organised by 3D'omics, a H2020 EU project (No. 101000309).



Monday, 1st of July 2024

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Session 1: Human Health	8 00 - 9 00	Coffee and Networking			
9.35 Devices and Materials for Sampling/Manipulating the Human Microbiome Microbiome Microbiome Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Robert Plasmid Dynamics and Maturation of the Infant Gut Microbiome Robert Plasmid Dynamics and Maturation of the Infant Gut Microbiome Robert Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Plasmi					
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Metabolic Microbiome-Host Interactions and its Role in Inflammatory Dr. Jan Taubachneim Glowersity Mospital Kiel	9.35 – 10.10	Plasmid Dynamics and Maturation of the Infant Gut Microbiome	Prof. Søren Sørensen		
Bowel Disease University Kiel/University Kiel/University Hospital Kiel		Trashing Dynamics and Wattiration of the infant out wheroblome	[University of Copenhagen]		
Stiffs: Screening Metagenomic Data for an Ancient Human Symborn Prof. Laisa W. Hugerth Uppsala University	10.10 - 10.20	Metabolic Microbiome-Host Interactions and its Role in Inflammatory	Dr. Jan Taubenheim		
		Bowel Disease	[University Kiel/University Hospital Kiel]		
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Change	10.30 - 11.00	Break			
Change	11.00 – 11.30	Gut Microbiome Plasticity and Human Adaptability under Ecological	Asst. Prof Rachel Carmody		
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(Drinks and Light Snacks Provided)	18.00 - 19.45	Poster Session	, , ,		
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Tuesday, 2nd of July 2024

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8.00 - 9.00	Coffee and Networking			
Session 3: Biodiversity and Conservation				
9.00 – 9.35	Eco-Evo-Devo Drivers of Microbial Assemblage Dynamics in Tropical Marine Holobionts	Prof. Monica Medina [Pennsylvania State University]		
9.35 – 10.10	Keep One Another Close: The Importance of Wildlife-Microbe Symbioses in a Changing World	Assoc. Prof. Kevin Kohl [University of Pittsburgh]		
10.10 – 10.20	Gut Microbiome Characteristics are Associated with Conservation Practices and Host Genetic Diversity in a Wild Vertebrate Species	Dr. Sarah F. Worsley [University of East Anglia]		
10.20 – 10.30	Pleistocene Reindeer Dental Calculus as a Source for Ancient Oral, Rumen and Dietary Flora	Dr. Jaelle Brealey [Norwegian Institute for Nature Research]		
10.30 - 11.00	Break	-		
11.00 – 11.30	Temporal Hologenomics: A New Approach in Biodiversity Research, Conservation and Evolutionary Biology	Assoc. Prof. Katerina Guschanski [University of Edinburgh]		
11.30 – 11.55	The Hologenomics of Invasion Biology	Senior Scientist Cornelia Jaspers [Technical University of Denmark]		
11.55 – 12.05	ASG Project: First Insights About Microbial-Rich Sponge Metagenomes	Dr. Camilla Santos [Wellcome Sanger Institute]		
12.05 – 12.15	The Role of Microbial Symbiosis in Insular Adaptation: A Hologenomic Approach	Prof. Laura Baldo [University of Barcelona]		
12.15 – 12.25	A Comprehensive Investigation of Woolly Mammoth Remains Associated Microbes	Dr. Benjamin Guinet [Swedish Museum of Natural History]		
12.25 – 13.15	Lunch (Provided)	(Evaluation of Posters by Award Committee)		
	Session 4: Future Technical Trends			
13.15 – 13.55	Population Theory for the Hologenome and the Assembly of	Prof. Joan Roughgarden [University of		
	Holobionts	Hawaii]		
13.55 – 14.30	TBA	Prof. Ana Pombo [Max Delbrück Center for Molecular Medicine]		
14.30 – 15.05	TBA	Prof. Itzik Mizrahi [Ben Gurion University]		
15.05 – 15.30	Break			
15.30 – 15.50	Unveiling Animal-Microbiota Interactions Through the Study of Metabolic Capacities of Microbial Genomes and Metabolite Exchange Capabilities of Microbiomes	Assoc. Prof. Antton Alberdi [University of Copenhagen]		
15.50 – 16.10	Exploring Evolutionary Host-Microbiota Interactions Across Vertebrates Using Gut-On-a-Chip	Asst. Prof. Ostaizka Aizpurua [University of Copenhagen]		
16.10 – 16.30	Epigenetic Control of the Gut Microbiome	Assoc. Prof. Morten Limborg [University of Copenhagen]		
16.30 – 16.40	Deep Viral Metagenomics Reveals Dynamic Changes in Mobile Element Interaction Networks Following Intestinal Microbiota Transplantation	Dr. Benjamin Auch [Phase Genomics]		
16.40 – 16.50	Holo-omic Workflow Utilizing Network Analysis Reveals Compositional Bistability Between Rumen Microbiomes	Carl Mathias Kobel [Norwegian University of Life Sciences]		
16.50 – 17.00	Advancements in Applying Zebrafish as a Model Organism in Hologenomics	Eiríkur Andri Thormar [University of Copenhagen]		
17.00 – 17.10	Spatially Resolved Multi-omic Landscape of the Animal Gut Microbiome	Dr. Bryan Wang [University of Copenhagen]		
17.10 – 17.55	Closing Keynote:	Prof. Seth Bordenstein [Director Penn		
	Winds of Change - Breathing a New Disciplinary Matrix Into Biology	State University Microbiome Center]		
17.55 - 18.00	Symposium Wrap Up and Prizes			
18.00	Conference End			



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