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)
	the state of the s	Prof. Thomas Bosch [Kiel Life Science Center]
	Life, the Holobiont, and Everything	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

Session 1: Human Health Prof. Anja Boijsen Technical University of Denmark Prof. Anja Boijsen Technical University of Denmark Prof. Anja Boijsen Technical University of Denmark Prof. Seron Steroscient Technical University of Concenhagen Technical University of Demark Technical University of Technical Universit	\·*/				
Session 1: Human Health	8.00 - 9.00	Coffee and Networking			
Devices and Materials for Sampling/Manipulating the Human Prof. Anja Bojjeen Technical University of Denmark					
Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Dynamics and Maturation of the Infant Gut Microbiome Plasmid Dynamics			D 4 1 D 1		
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Metabolic Microbiome-Host Interactions and its Role in Inflammatory Dr. Jan Taubacheim Howersty Kiel/University Hospital Kiel	9.35 – 10.10	Plasmid Dynamics and Maturation of the Infant Gut Microbiome			
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11.30 - 12.00 The Hologenome Beyond Biology - An Arctic Indigenous Perspective Ass. Prof. Rachel Carmody Harvard University			[Uppsala University]		
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Multi'omics and the Future of Sustainable Agrisciences Dr. Stinus Lindgreen [Radikale Venstre], Prof. Claus Felby [Novonordisk Foundation] Presented by Early-Stage Researchers			of Copenhagen] (Moderator), Prof. Lone		
Multi'omics and the Future of Sustainable Agrisciences Dr. Stinus Lindgreen [Radikale Venstre], Prof. Claus Felby [Novonordisk Foundation] Presented by Early-Stage Researchers					
Prof. Claus Felby [Novonordisk Foundation] 18.00 – 19.45 Poster Session Presented by Early-Stage Researchers		Multi'omics and the Future of Sustainable Agrisciences	Dr. Stinus Lindgreen [Radikale Venstre],		
Foundation Foundation Presented by Early-Stage Researchers		- -	0 1		
Poster Session					
(Drinks and Light Snacks Provided)	18.00 – 19.45	Doctor Socion	Presented by Early-Stage Researchers		
		POSICI SCSSIUII	(Drinks and Light Snacks Provided)		



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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