

Programme

The Danish Microbiological Society
Annual Congress 2024

11 November 2024
Copenhagen · Denmark



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abstract
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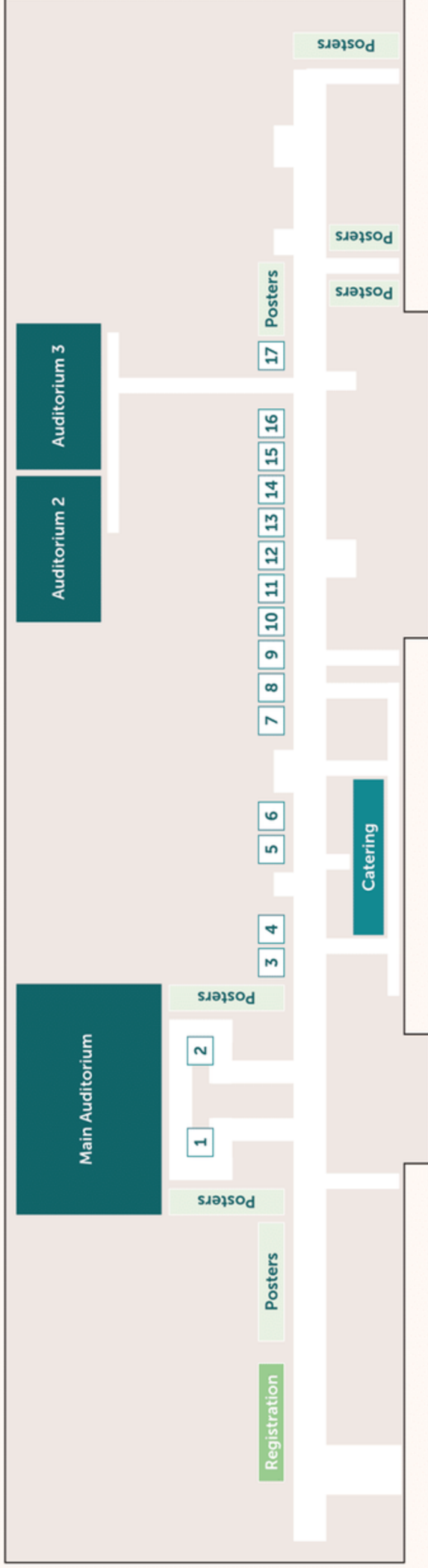
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Programme

	AUDITORIUM 1	AUDITORIUM 2	AUDITORIUM 3
09:00	REGISTRATION & COFFEE		
09:00	POSTER MOUNTING		
10:00	Welcome and opening address	DMS President, Thomas Bjarnsholt	DMS Vice president, Trine Rolighed Thomsen
10:05	Morning keynotes 1 & 2	Dennis Sandris Nielsen, Food Microbiology, Gut Health, and Fermentation, University of Copenhagen Oh no. My gut microbiome got a virus infection. The role of bacteriophages in the gut – and their potential use for gut microbiome manipulation	Rikke Meyer, Interdisciplinary Nanoscience Center, Aarhus University The multifunctional role of extracellular DNA in bacterial interactions and biofilm
10:40	Industry Symposium	Nordic Biosite Anneli Kadel: Standardizing Microbiomics – How to detect bias in collection, purification, and analysis	
10:55	COFFEE AND EXHIBITION		
	MORNING PARALLEL SESSIONS		
11:30	Microbiology in disease Chair introduction: Ismael Gogenur, Center for Surgical Science, Department of Surgery, Zealand University Hospital, Region Zealand. Co-chair: Thomas Bjarnsholt, University of Copenhagen, DMS Board	Food and agriculture Chair introduction: Leonie Johanna Jahn, Center for Biosustainability, Technical University of Denmark Co-chair: Michael Poulsen, University of Copenhagen, DMS Board	Systems microbiology Chair introduction: Sine Svenningsen, Department of Biology, University of Copenhagen. Co-chair: Ditlev Brodersen, Aarhus University, DMS Board
11:35	Blaine Fritz, Department of Immunology and Microbiology, University of Copenhagen Gut Microbiota and Colorectal Cancer: Functional Characterization of Host-Microbe Dynamics in the Tumor Microenvironment	Mette Lübeck, Department of Chemistry and Bioscience, Aalborg University Fungal protein production: precision fermentation and mycoproteins	Aura Raulo, Department of Biology, University of Oxford Metacommunity ecology of microbiomes in social networks of wild mice
12:00	Ismael Gogenur, Center for Surgical Science, Department of Surgery, Zealand University Hospital, Region Zealand. Microbiota in surgical oncology	Veronica M. Sinotte, Center for Evolutionary Hologenomics, Globe Institute, University of Copenhagen Origins of Fermented Food Microbes: from Ants to Yogurt to Sourdough	Namiko Mitarai, Biocomplexity group, Niels Bohr Institute, University of Copenhagen Self-organized coexistence of phage and bacteria
12:15	Astrid L. B. Bennedsen, Center for Surgical Science, Department of Surgery, Zealand University Hospital, Region Zealand Intraluminal Spray Application of Fosfomycin and Metronidazole in Patients with Right-Sided Colon Cancer and the effect on the tumour microenvironment	Leonie Johanna Jahn, Center for Biosustainability, Technical University of Denmark Sustainability guided microbial food development	Amin Doostmohammadi, Active intelligent matter Research group, Niels Bohr Institute, University of Copenhagen Microbial active matter: morphology, competition, and mesoscale turbulence
12:30	ORAL ABSTRACT PRESENTATIONS		
	Obinna Ajunwa: G-quadruplex DNA - hemin interactions induce Staphylococcal extracellular electron transfer	Tanvi Taparia: From single strain bioinoculants to consortia	Lara Alvaro: Streamlined cells display more efficient metabolic and biomanufacturing performance
12:40	Mads Christensen: Bringing the heat: Using isothermal microcalorimetry for rapid diagnostics and antimicrobial susceptibility testing	Seven Nazipi: Back to Basics – The Fundamentals of the Black Soldier Fly (<i>Hermetia illucens</i>) Microbiome	Umit Akbey: Structural insights into Biofilms and Biofilm Forming Functional Amyloids

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	INDUSTRY SYMPOSIA		
12:50	NEB/BioNordika (New England Biolabs) Klaus Tangsgaard: Enzymes for Microbial studies	Atrandi Justina Pupkaite: High-Throughput Single-Microbe Genomics Enabled by Semi-Permeable Capsules	SBT Instruments Peter Lüttge Jordal: Easy, Label-Free Bacterial Counting in Real Time Using Impedance Flow Cytometry
13:00	LUNCH IN THE EXHIBITION AREA		
13:00		GENERAL ASSEMBLY: The Danish Pasteur Society Speaker: Pasteur Travel Grant recipient, 2023: Julie Zimmermann, Infectious Disease Immunology, Statens Serum Institut	
13:30	POSTER SESSION 1		
	AFTERNOON PARALLEL SESSIONS		
14:20	Molecular mechanisms Chair: Rene Jørgensen, Department of Science and Environment, Roskilde University, Co-chair: Ditlev Brodersen, Aarhus University, DMS Board	Archaea Chair introduction: Andreas Schramm, Department of Biology, Aarhus University Co-chair: Ole Højberg, Aarhus University, DMS Board	Microbial ecology and ecosystems Chair introduction: Mads Albertsen, Department of Chemistry and Bioscience, Aalborg University Co-chair: Trine Rolighed Thomsen, Aalborg University, DMS Board
14:25	René Jørgensen, Department of Science & Environment, Roskilde University Elucidating the intoxication mechanism of TcdA from <i>Clostridium difficile</i>	Christa Schleper, Department of Functional and Evolutionary Ecology, University of Vienna From greenhouse gas production to eukaryogenesis: A journey to the ecological and evolutionary impacts of Archaea	Mads Albertsen, Department of Chemistry and Bioscience, Aalborg University Microflora danica: the atlas of danish environmental microbiomes
14:50	Flemming Scheutz, Department of Bacteria, Parasites & Fungi, Statens Serum Institut, Copenhagen Virulence genes in <i>E. coli</i> . What matters and what doesn't	Florin Musat, Department of Biology, Aarhus University Can Archaea form higher alkanes? Insights from back fluxes during anaerobic oxidation of butane support archaea-driven alkane formation	Mette Haubjerg Nicolaisen, Department of Plant and Environmental Sciences, University of Copenhagen Microbial ecology in the wheat rhizosphere
15:05	Karen Leth Nielsen, Department of Clinical microbiology, Copenhagen University Hospital, Rigshospitalet Molecular resistance markers in clinical bacterial isolates identified by sequencing	Burak Avci, Department of Biology, Aarhus University Imaging the dark side of the eukaryote-prokaryote interface: the potential for subcellular complexity in yet-uncultivated Asgard archaea	Thomas Tørring, Department of Biological and Chemical Engineering, Aarhus University Tiny Earth: Engaging High School Students in the Hunt for Antibiotics
15:20	ORAL ABSTRACT PRESENTATIONS		
	Lise Goltermann: Identification of genes involved in aggregate associated antimicrobial tolerance of <i>Pseudomonas aeruginosa</i> using Tn-Seq guided discovery	Laura Martínez-Alvarez: Redefining paradigms in the archaeal virus-host arms race	Anne Winding: Soil microbiome stability to agricultural practices and nitrification inhibitors
15:30	Frederik Henriksen: A molecular model for transcriptional regulation of a type II toxin-antitoxin system	Paula Garcia Otero: Seasonal dynamics and metagenomics of ammonia-oxidizing archaea in a seasonal anoxic and sulfidic basin in Mariager Fjord (Denmark)	Jonathan Donhauser: Cross-continental soil prokaryotic phenotypic traits driven by precipitation regime and land cover
15:40	COFFEE AND EXHIBITION		
15:40	POSTER SESSION 2		
16:30	Closing Keynote: The Origin of Life · Auditorium 1 Johan Olsen, Department of Biology, University of Copenhagen		
17:10	Prizes & Closing session · Auditorium 1		
17:15	Networking and reception with fermented beverages		
18:30	Optional congress dinner at Madklubben Food Club Nørrebro (tickets must be purchased)		

Floor plan



Exhibitors

1	Nordic Biosite	7	CPH Biotech Supply	13	Triolab
2	Shionogi	8	AH Diagnostics	14	Novogene
3	Astrand Biosciences	9	Dandiag	15	Berner Lab
4	NEB/BioNordika	10	Saveen & Werner	16	Ramcon
5	SBT Instruments	11	You Do Bio	17	mBioWorks
6	Biolab	12	Ampliqon		

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Save the Date

10. november 2025

Copenhagen · Denmark

Join us in
2025

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