Programme

The Danish Microbiological Society

Annual Congress 2022

14 NOVEMBER 2022
COPENHAGEN · DENMARK

www.dmselskab.dk

Content

DMS CONGRESS - Programme

		Room 1	Room 2	Room 3
09:00	**Registration & Coffee**			
09:00	**Poster mounting**			
10:00	**Welcome and opening address**	**Kasper Nørskov Kragh** DMS board member	**Katrine Uhrbrand** DMS board member	
10:15		**Keynote 1** **Michael Kühl** 'Photosynthesis in the "dark": Exploring the ecology of cyanobacteria with unusual chlorophylls	**Keynote 2** **Tine Rask Licht** 'Microbial metabolism in the gut – From diet to host signalling'	
10:45		**Industry symposium 1** Symcel Biocalorimetry: what can a continuous metabolic readout tell you about your microbial cultures?	**Industry symposium 2** LumiraDx Fast Lab Solutions - Lab revolution with a 20min PCR	
11:05	**Coffee and exhibition**			
	PARALLEL SESSIONS			
11:30		**Session 1: Methane, microbes, and climate** Chair introduction: Amelia-Elena Rotaru Speakers: Jana Milucka, Cornelia Welte and Amelia Elena Rotaru	**Session 2: Yeast Biotechnology** Chair introduction: Irina Borodina Speakers: Michael Krogh Jensen, Nick Milne and Irina Borodina	**Session 3: Enteric bacterial pathogens: From the clinic to vaccine development** Chair introduction: Lotte Jelsbak Speakers: Kristian Schønning, Lotte Jelsbak and Rene Jørgensen
12:30	**LUNCH IN THE EXHIBITION AREA**			
12:45			GENERAL ASSEMBLY: Det Danske Pasteur Selskab Speaker: Michela Gambino	
13:00-14:00	**POSTER SESSION 1** PARALLEL SESSIONS - speakers are chosen from submitted abstracts			
14:00		**Session 4: Ecology/Basic microbiology** Chair introduction: Leise Riber, DMS board member Speakers: Sarah Camera-Wilpert, Elisa Hernandez-Magan and Christian Castenschiold	**Session 5: Applied microbiology** Chair introduction: Rikke Louise Meyer, DMS board member Speakers: Clarissa Schwab, Athina Zampara and Anders Lander Mogensen	**Session 6: Clinical microbiology** Chair introduction: Katrine Uhrbrand, DMS board member Speakers: Morten Eneberg Nielsen, Mastaneh Afshar and Anne Kristine Iversen
14:45		**Industry flash presenter 1** SniprBiome Applying CRISPR to treat life-threatening diseases	**Industry flash presenter 2** BioSite Standardizing Microbiomics - Removing Bias in Collection, Purification and Analyses	
15:00	**Coffee and exhibition**			
15:00-16:10	**POSTER SESSION 2**			
16:10-16:20		**Lottery**		
16:20-17:00		**Keynote 3: Michael Bang Petersen** 'The Importance of Trust During a Health Crisis: Evidence From the Covid-19 Pandemic'		
17:00-18:00	**Reception with fermented beverages**			
18:00-21:30	**Congress dinner** (tickets must be purchased) Dinner starts at 18.30 at Food Club, Madklubben Nørrebro			

Programme - Room 1

10:00	**Welcome and opening address** **Kasper Nørskov Kragh** DMS board member
10:15	**Keynote 1** **Michael Kühl** Professor, Department of Biology, University of Copenhagen **'Photosynthesis in the "dark": Exploring the ecology of cyanobacteria with unusual chlorophylls'**
10:45	**Industry symposium 1** Symcel Biocalorimetry: what can a continuous metabolic readout tell you about your microbial cultures?
11:05	**Coffee and exhibition**
	PARALLEL SESSIONS
11:30	**Session 1: Methane, microbes, and climate** Chair introduction: Amelia-Elena Rotaru
11:35	**Jana Milucka** Dr. and Group leader, Max Planck Institute für Marine Mikrobiologie, DE Microbial regulation of methane emissions from seagrass meadows
12:00	**Cornelia Welte** Associate Professor, Radboud University, NL Methanogenesis from methoxylated aromats
12:15	**Amelia Elena Rotaru** PhD, University of Southern Denmark, DK Symbiotic partners connected by a grain to make methane
12:30	**LUNCH IN THE EXHIBITION AREA**
14:00	**Session 4: Ecology/Basic microbiology** Chair introduction: Leise Riber, DMS board member
14:00	**Sarah Camara-Wilpert** PhD Student, University of Copenhagen, DK Phages subvert CRISPR-Cas immunity via RNA-based anti-CRISPRs
14:15	**Elisa Hernandez-Magana** PhD, University of Southern Denmark, DK Novel insights into the physiology of ammonia-oxidizing archaea during oxygen production, in oxygen-limited conditions
14:30	**Christian Castenschiold** PhD, Aarhus University, DK Linking Microbial Taxa to Ice-Nucleation Protein Production in Arctic Marine Environments
14:45	**Industry flash presenter 1** SniprBiome Applying CRISPR to treat life-threatening diseases
15:00	**Coffee and exhibition**
16:10-16:20	**Lottery**
16:20-17:00	**Keynote 3:** **Michael Bang Petersen** Professor, Department of Political Science, Aarhus University **'The Importance of Trust During a Health Crisis: Evidence From the Covid-19 Pandemic'**

Programme - Room 2

10:00	**Welcome and opening address** **Katrine Uhrbrand** DMS board member
10:15	**Keynote 2** **Tine Rask Licht** Professor, Deputy Head of Institute, National Food Institute, Technical University of Denmark: **'Microbial metabolism in the gut – From diet to host signalling'**
10:45	**Industry symposium 1** LumiraDx Fast Lab Solutions - Lab revolution with a 20min PCR
11:05	**Coffee and exhibition**
	PARALLEL SESSIONS
11:30	**Session 2: Yeast Biotechnology** Chair introduction: Irina Borodina
11:35	**Michael Krogh Jensen** Senior Researcher & group leader DTU Biosustain Brewing anticancer medicine in yeast
12:00	**Nick Milne** Co-founder and CSO at Octarine Producing improved new-to-nature compounds: The next frontier of industrial biotechnology
12:15	**Irina Borodina** Professor, The Novo Nordisk Foundation Center for Biosustainability Fermented pheromones – a sustainable solution for plant protection from insect pests
12:30	**LUNCH IN THE EXHIBITION AREA**
12:45	GENERAL ASSEMBLY: Det Danske Pasteur Selskab Speaker: Michela Gambino, PhD Evolution of Enterotoxigenic E.coli phages and other stories from Southern California
14:00	**Session 5: Applied microbiology** Chair introduction: Rikke Louise Meyer, DMS board member
14:00	**Clarissa Schwab** Associate Professor, Aarhus University, DK Fucose but not fucoidan enhances propionate formation of intestinal microbiota through microbial cross-feeding
14:15	**Athina Zampara** Postdoc, University of Copenhagen, DK Novel phage-derived antibacterials against Campylobacter
14:30	**Anders Lander Mogensen** Student Teacher, Aarhus University, DK The Microbiome of Danish Ant Species and its Potential Use in Biological Control
14:45	**Industry flash presenter 2** BioSite Standardizing Microbiomics - Removing Bias in Collection, Purification and Analyses
15:00	**Coffee and exhibition**

Programme - Room 3

	PARALLEL SESSIONS
11:30	**Session 3: Enteric bacterial pathogens: From the clinic to vaccine development** Chair introduction: Lotte Jelsbak
11:35	**Kristian Schønning** MD, DMSc, Rigshospitalet and Associate Professor, University of Copenhagen, DK Resistance in E. coli to penicillin/ -lactamase inhibitors including piperacillin/ tazobactam, a first line antibiotic in Danish hospitals
12:00	**Lotte Jelsbak** Associate professor RUC, DK Autoinducer-3 in Salmonella Typhimurium: From its biosynthesis to physiological role
12:15	**Rene Jørgensen** PhD. Scientist at SSI, DK Development of a vaccine against Clostridium difficile infections
12:30	**LUNCH IN THE EXHIBITION AREA**
14:00	**Session 6: Clinical microbiology** Chair introduction: Katrine Uhrbrand, DMS board member
14:00	**Morten Eneberg Nielsen** Research assistant, Aalborg University, DK A Nanopore approach for metagenomic pathogen identification in blood plasma
14:15	**Mastaneh Afshar** Postdoc, Aarhus University, DK Staphylococcus saccharolyticus: a harmless skin colonizer or a well-armed opportunistic pathogen?
14:30	**Anne Kristine Iversen** PhD Student, University of Copenhagen, DK Imprint:Novel sampling and cultivation method maintaining 2D organization of microbes
15:00	**Coffee and exhibition**

The Danish Microbiological Society Congress 2022

Floor plan:
14 NOVEMBER, 2022

Booths from group B and C are reserved for Platinum, Gold and Silver sponsors

Signaturforklaring:

- UDGANG / EXIT
- FLUGTVEJ / PATHWAY
- Reserved booth
- Booked booth

Symcel symposium

Biocalorimetry: what can a continuous metabolic readout tell you about your microbial cultures?

Time 10.45-11.05
Room 1
Speaker Dr. Katrin Beilharz
Guest DMS Member: Kasper Nørskov Kragh

"Symcel is leading a new era in metabolic measurements for use in microbiology research. Symcel provides a novel and simple assay for real-time biological activity measurements based on a powerful technique called biocalorimetry. Their solution is a fast, label-free and kinetic phenotypic screening technology for direct measurements of microbial responses to their environment including complex community dynamics and treatment effects. Symcel's instrument, the calScreener has been used by researchers all over the world to investigate such diverse fields as; antimicrobial resistance, organotypic infection models, multispecies microbial communities, and potentiators of antimicrobial activity. The sensitive and kinetic monitoring of microbial responses to different stimuli allows you to see your microbial samples in a completely different way. Symcel was founded by leading authorities in microcalorimetry and the current team at Symcel has extensive experience within the biotechnology industry and diagnostics. For more information, go to symcel.com."

LumiraDx symposium

Fast Lab Solutions - Lab revolution with a 20min PCR

Time 10.45-11.05
Room 2
Speaker Chris Orzessek

Innovative qSTAR technology transforms molecular diagnostics & laboratory efficiency with fast, direct amplification within 20 minutes on open RT-PCR systems

Dansk:
Innovativ qSTAR teknologi transformerer molekylær diagnostik & laboratorieeffektivitet med hurtig, direkte amplifikation indenfor 20 minutter på åbne RT-PCR-systemer

SniprBiome symposium

Applying CRISPR to treat life-threatening diseases

Time 14.45-15.00
Room 1
Speaker Katja Brunner

SNIPR BIOME uses CRISPR technology to programmable and selectively target human microbiomes

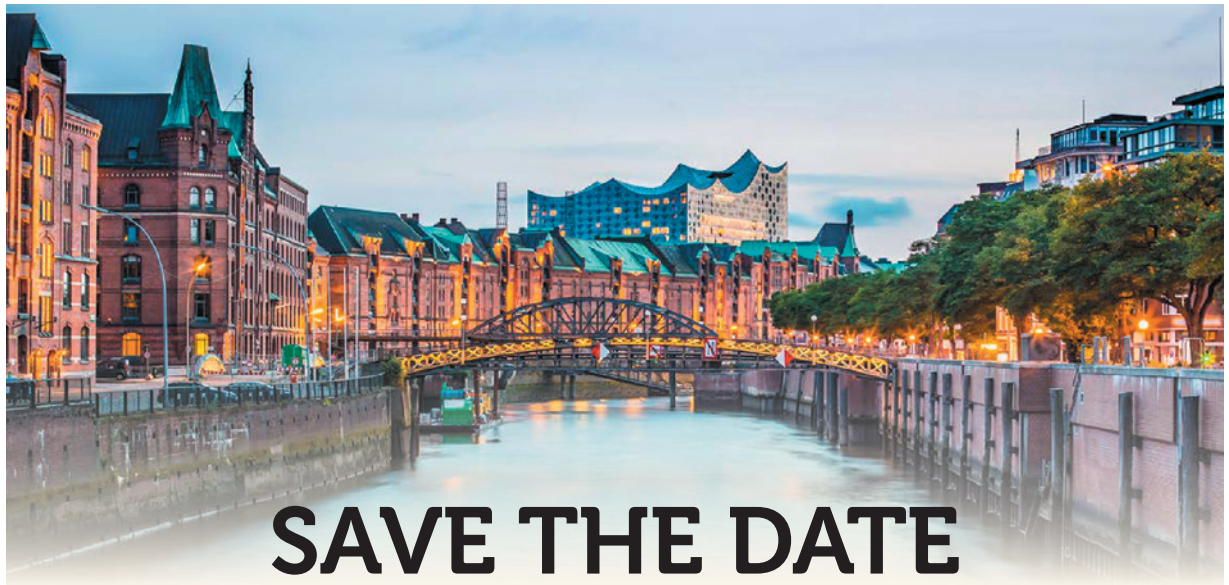
- SNIPR001, the leading program, aims at the prevention of fluoroquinolone-resistant E. coli bloodstream infections in haematological cancer patients
- SNIPR001 is progressing in clinical development with an IND cleared and FDA Fast Track Designation granted
- First human subjects dosed with SNIPR001 in spring 2022, trial currently ongoing

BioSite/Zymo Research symposium

Standardizing Microbiomics – Removing Bias in Collection, Purification and Analyses

Time 14.45-15.00
Room 2
Speaker Florian Lübben

The rapid growth of Microbiomics has increased the demand for standard methods to improve the reproducibility and quality of the data being generated. To address these fundamental challenges, the scientists at Zymo Research have created standards, reference materials and bioinformatic tools for the development of the most accurate and unbiased workflows from sample collection to analyses.



SAVE THE DATE

Reconnect at the 10th Congress of European Microbiologists

9 - 13 July 2023 • Hamburg, Germany

FEMS 2023

Welcome to FEMS 2023 in Hamburg.

It is a great pleasure to announce the 10th Congress of European Microbiologists, FEMS 2023, which will be held 9-14 July 2023 in Hamburg, Germany. FEMS2023 will bring together leading scientists spanning different fields of microbiology to celebrate the best of microbiology.

This congress will showcase the most recent developments in microbiology to address some of the global challenges we face today, such as antimicrobial resistance, environmental pollution and the emergence of pathogenic disease.

We invite you to reconnect with us and be part of the FEMS2023 Congress. We hope to see you there!

KEYNOTE SPEAKERS

Jorge Galan, USA
Maria Dominguez-Bello, USA
Julia Vorholt, Switzerland
Carmen Buchrieser, Austria
Paul Lehner, UK

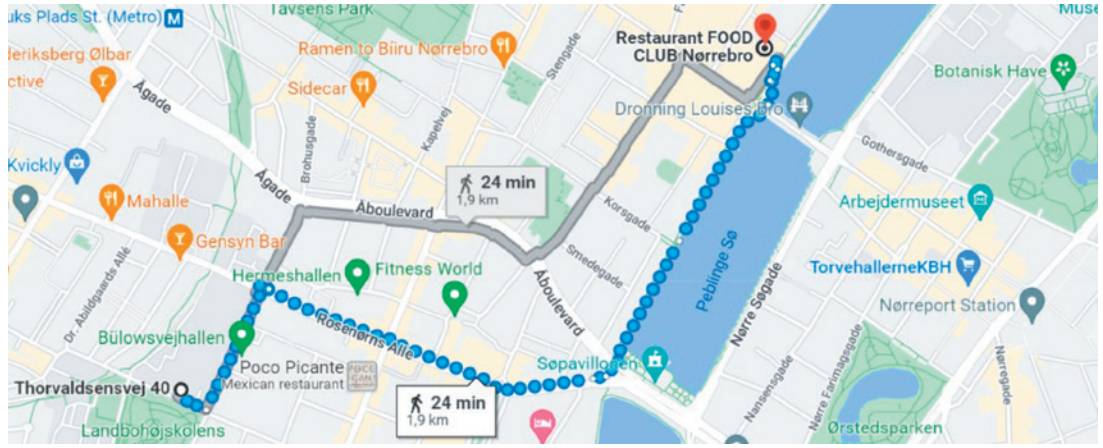
PROGRAMME TOPICS

Include all microbiological specialties: Applied Microbiology; Biotechnology; Environmental Microbiology; Food Microbiology; Microbiology Education; Pathogens; Physiology - Biochemistry ; Taxonomy - Systematics and Virology

MORE INFORMATION

FEMS 2023 Congress Secretariat at
fems2023@fems-microbiology.org

www.fems2023.org



University of Copenhagen (Frederiksberg Campus)
Thorvaldsensvej 40
1871 Frederiksberg

↑ Head southeast on Thorvaldsensvej toward Bülowsvej
- (72 m) -

← Turn left onto Bülowsvej
- (290 m) -

→ Turn right onto Rosenørns Allé
- (750 m) -

↖ Slight left to stay on Rosenørns Allé
- (30 m) -

← Turn left onto Peblinge Dosseringen
- (350 m) -

↑ Continue onto Peblinge Dosseringen
- (350 m) -

↑ Continue onto Sortedam Dossering
- (124 m) –

↖ Slight left to stay on Sortedam Dossering
- (Destination will be on the left) -

Restaurant FOOD CLUB Nørrebro
Sortedam Dossering 7C
2200 København N

Abstract Book

All accepted abstracts for the DMS 2022 Congress are available at the DMS website. Please see below the abstract numbers and scan the QR code below to see the DMS 2022 Abstract Book.

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Notes

Save the Date
DMS2023

13 November 2023
Copenhagen · Denmark

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The Danish Microbiological Society
DMS

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