Programme

The Danish Microbiological Society

Annual Congress 2023

13 November 2023
Copenhagen · Denmark

www.dms.dk

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Copenhagen

About DMS

The Danish Microbiological Society (DMS) was established in 1958 and is a representative of the international organizations for microbiology; the International Union of Microbiological Societies (IUMS) and the Federation of European Microbiological Societies (FEMS).

DMS primarily functions as a contact point for national microbiological activities. DMS hosts an annual congress in November in Denmark and initiates other scientific meetings in microbiology and related fields. As a member of the society, you can also join the annual General Assembly in Spring.

Sign up for the newsletter and get more information on DMS activities.

Members of the DMS board

President:
Thomas Bjarnsholt
Professor, cand. polyt., Dr. Med.& PhD
Department of Immunology and Microbiology, University of Copenhagen and Rigshospitalet

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M.Sc., PhD
Danish Technological Institute and Department of Chemistry and Bioscience, Aalborg University

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Department of Biology, University of Copenhagen

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cand. scient., PhD
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Professor, cand. scient., PhD
Interdisciplinary Nanoscience Center (iNANO) & Department of Bioscience, Aarhus Universitet

Michael Poulsen
Professor, M.Sc., PhD
Department of Biology, University of Copenhagen

Katrine Uhrbrand
M.Sc, PhD
FORCE Technology

Leise Riber
cand. polyt, PhD
Department of Plant and Environmental Sciences, University of Copenhagen

Ole Højberg
cand. scient., PhD
Department of Animal Science - Immunology and Microbiology, Aarhus University

Alternates:
Ditlev E. Brodersen
Professor, PhD
Department of Molecular Biology and Genetics, Aarhus University

Marie Allesen-Holm
cand. polyt., PhD
Chr. Hansen

General Information

Congress venue
Marmorhallen (The Marble Hall)
Frederiksberg Campus
University of Copenhagen
Thorvaldsensvej 40
1871 Frederiksberg

Conference language
English

Conference website
www.dms.dk/congress

Name badges:
All participants and exhibitors must wear their name badge. If you have purchased a dinner ticket it is printed on the back of your badge.

Lunch and coffee breaks
Lunch and coffee are available in the exhibition area. Please see the programme for the exact times.

Conference dinner
Time 18.30 – 21.00
Place Madklubben Food Club, Sortedam Dossering 7C, Nørrebro in Copenhagen

If you are not able to use your dinner ticket, you can hand it over to a colleague at the registration desk.

Poster session information
The poster area is in the rooms next to the registration stand in the Marble Hall.

Poster session 1
– even numbers presenting from 13.15-14.15.

Poster session 2
– uneven numbers presenting from 15.50-16.30.

All posters should be set up between 9.00-10.00 and taken down after the last Poster Session at 16.30.
The DMS secretariat will remove all non-collected posters.

Speaker information
Please bring your presentation on a USB stick to your session room. Your presentation must be uploaded at least 30 minutes before your session starts. Unless otherwise agreed all presentations will be deleted after the conference in order to ensure that no copyright issues will arise at the end of the conference.

WiFi Free
WiFi is provided throughout the venue by logging on "KU Guest" and creating your own account.

Mobile phones
All mobile phones must be on silent mode during the sessions.
We encourage you to share pictures and experiences from the congress with colleagues - both in person and on social media, but please show consideration for the people in your photographs when you share them.

Social media:
Follow DMS on LinkedIn or X.
Please use #DMS2023 when posting about the congress.

Conference Secretariat
CAP Partner
Nordre Fasanvej 113,
DK-2000 Frederiksberg
Denmark
Tel.: +45 70 20 03 05
info@cap-partner.eu
www.cap-partner.eu

Programme

	Room 1	Room 2	Room3
09:00	**Registration & Coffee**		
09:00	**Poster mounting**		
10:00	**Welcome** **Opening address by Thomas Bjarnsholt,** President of the DMS board	Streaming of Opening address and Keynote 1 is available in Room 2	
10:05	**Keynote 1** **Morten Meldal,** Professor, Nobel Prize recipient 2022, University of Copenhagen *"Molecular Click Adventures. A Leap from the Shoulders of Giants"*		
10:55	**Coffee and exhibition**		
	PARALLEL SESSIONS		
11:15	**Session 1:** Anti-viral treatment of COVID-19 Chair introduction: Thomas Benfield, Clinical Professor, Copenhagen University Hospital, Amager & Hvidovre and University of Copenhagen Co-chair: Katrine Uhrbrand, DMS Board	**Session 2:** Horizontal gene transfer in complex microbial communities Chair introduction: Søren Johannes Sørensen, Professor, University of Copenhagen Co-chair: Mette Burmølle, DMS board	**Session 3:** Innovation through fermentation: microorganisms for food, feed and fun Chair introduction: Zoran Gojkovic, Director of Brewing Science, Yeast and Fermentation, Carlsberg Research Laboratory Co-chair: Thomas Bjarnsholt, DMS board
12:35	**Industry flash talk A**	**Industry flash talk B**	
	PentaBase *Fast assay development in response to emergency*	**Nordic Biosite** *Improving the accuracy and reproducibility of microbiome analyses*	
12:50	**Lunch in the exhibition area**		
13:15		**General Assembly** The Danish Pasteur Society Speaker: Rafael Pinilla Redondo, main Pasteur Travel Grant recipient in 2022	
13.15-14.15	**POSTER SESSION 1** (Even numbers presenting)		

	Room 1	Room 2	Room3
	PARALLEL SESSIONS		
14.15	**Session 4:** Sensors and Microbes – How sensors help us understand microbial processes in space and time Chair: Klaus Koren, Associate professor, Aarhus University Co-chair: Rikke Louise Meyer, DMS board	**Session 5:** Bone infections Chair: Louise Kruse Jensen, Professor of Experimental Pathology, University of Copenhagen Co-chair: Thomas Bjarnsholt, DMS board	**Session 6:** Fungal assisted green transition Chair: Teis Esben Søndergaard, Associate professor, Aalborg University Co-chair: Ole Højberg, DMS board
15:35	**Industry flash talk C**	**Industry flash talk D**	**Industry flash talk E**
	Liofilchem *Diagnostic solutions for tackling Antimicrobial Resistance*	**SYMCEL** *Can we do better when it comes to diagnosing biofilm-related infections and predicting biofilm susceptibility?*	**Triolab** *Product introduction of DNBSEQ-G99(A)RS*
15:50-16.30	**Coffee and exhibition**		
15.50-16.30	**POSTER SESSION 2** (Uneven numbers presenting)		
16:30-17.00		**Keynote 2** Introduction by Rikke Louise Meyer, DMS board member	**Keynote 3** Introduction by Mette Burmølle, DMS board member
		Joakim Larsson, Professor, Institute of Biomedicine, University of Gothenburg *"On the environment's role in evolution, transmission and surveillance of antibiotic resistance"*	**Kimberly Kline** Professor, Department of Microbiology and Molecular Medicine, University of Geneva, *"Mechanisms of polymicrobial biofilm-associated infection"*
17.00-17.05	**Closing session**		
17.05-18.00	**Reception with lottery, Junior Presenter Prizes and fermented beverages**		
18.30-21.00	**Optional congress dinner** (tickets must be purchased during registration) Place: Madklubben Food Club, Nørrebro, Copenhagen		

MORNING PARALLEL SESSIONS

	Room 1	Room 2	Room 3
11:15	**Session 1: Anti-viral treatment of COVID-19**	**Session 2: Horizontal gene transfer in complex microbial communities**	**Session 3: Innovation through fermentation: microorganisms for food, feed and fun**
	Chair introduction: Thomas Benfield, Clinical Professor, Copenhagen University Hospital, Amager & Hvidovre and University of Copenhagen Co-chair: Katrine Uhrbrand, DMS Board	Chair introduction: Søren Johannes Sørensen, Professor, University of Copenhagen Co-chair: Mette Burmølle, DMS board	Chair introduction: Zoran Gojkovic, Director of Brewing Science, Yeast and Fermentation, Carlsberg Research Laboratory Co-chair: Thomas Bjarnsholt, DMS board
11:20	**Judith Margarete Gottwein** Copenhagen University Hospital, Amager & Hvidovre and University of Copenhagen **Nirmatrelvir-resistant SARS-CoV-2 variants with high fitness in an infectious cell culture system**	**Søren Johannes Sørensen,** University of Copenhagen **Plasmid dynamics in the infant gut microbiome**	**Zoran Gojkovic,** Carlsberg Research Laboratory **Carlsberg Research Laboratory – It all comes from beer**
11:45	**Carlota Fernandez-Antunez** Copenhagen University Hospital, Amager & Hvidovre and University of Copenhagen **In vitro selection of a SARS-CoV-2 variant with remdesivir resistance**	**Jonas Stenløkke Madsen** University of Copenhagen **The complicated relationships of mobile genetic elements**	**Joan Montasell** Lallemand Brewing **The Sustainability Potential of Brewing Yeast**
12:00	**Anna Offersgaard** Copenhagen University Hospital, Amager & Hvidovre and University of Copenhagen **An inactivated SARS-CoV-2 vaccine induced cross-neutralizing persisting antibodies and protected against challenge in small animals**	**Urvish Trivedi** University of Copenhagen **Leveraging protein language models to decipher phage satellites' biology**	**Sofie Saerens** Chr. Hansen **The use of P. kluyveri for the production of non-alcoholic beer**
12.15	**Juan Raya Beltrán** Institute for Advanced Chemistry of Catalonia of the Spanish Council for Scientific Research (CSIC) **Quorum Sensing Molecular Signatures to Diagnose P. aeruginosa Infections**	**Nina Molin Høyland-Kroghsbo** University of Copenhagen **Collective immunity – how groups of bacteria sense and respond to danger**	**Ker-Sin Ng** Aarhus University **Environmental pH and compound structure affect the potential of short-chain carboxylic acids as antimicrobial metabolites**
12.25	**Ifigeneia Kyrkou** University of Copenhagen **Clinical P. aeruginosa prophages: Insights into their role via their activity, abundance, persistence**	**Vasili Hauryliuk** Lund University **Mechanism of phage sensing and abortion by toxin-antitoxin-chaperon systems**	**Bryan Wang** University of Copenhagen **Spatially resolved multi-omic landscape of the animal gut microbiome**
12:35	**Sebastian Juul** PentaBase **Fast assay development in response to emergency**	**Patrick Tripp,** Nordic Biosite **Improving the accuracy and reproducibility of microbiome analyses**	

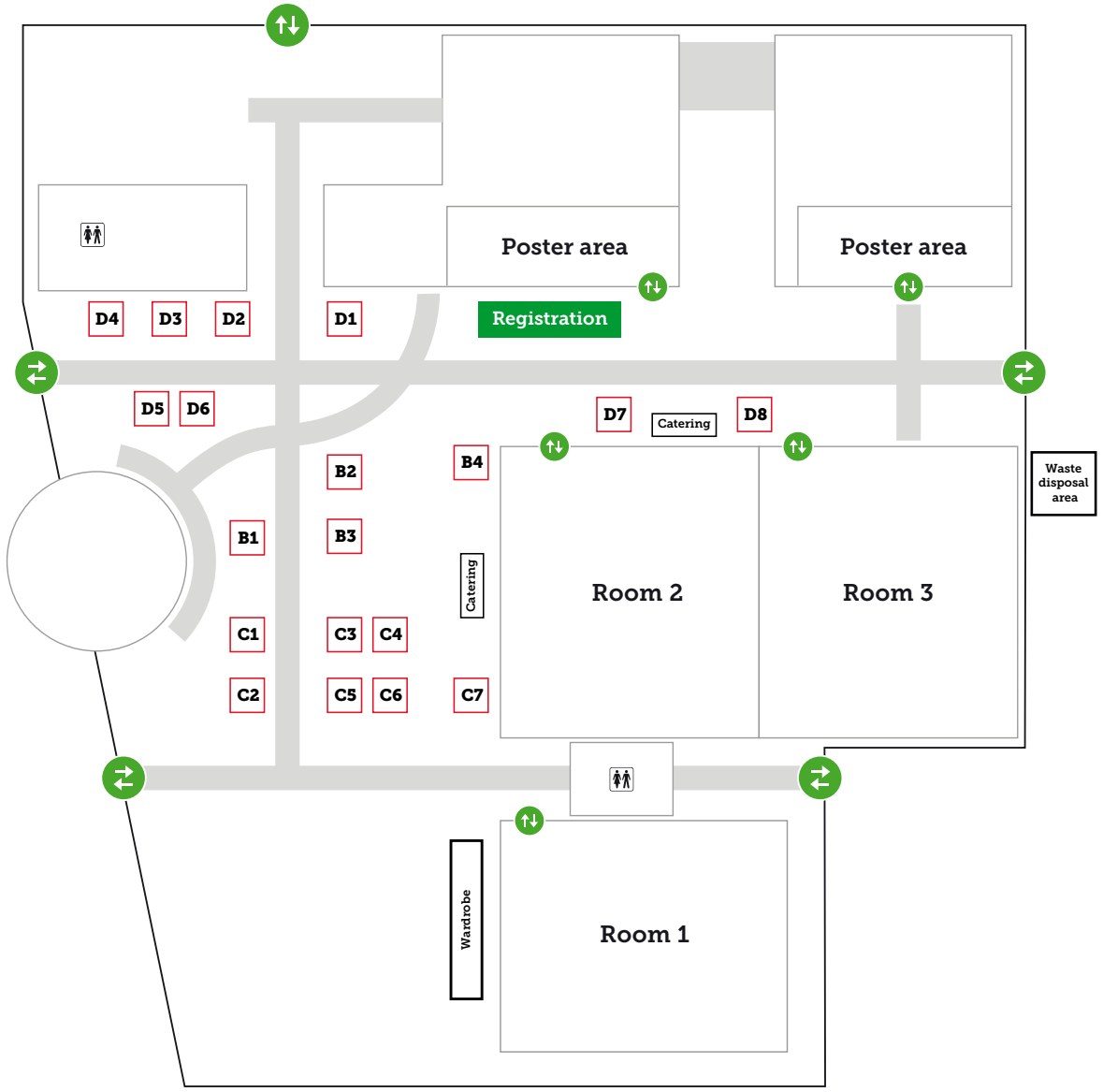
AFTERNOON PARALLEL SESSIONS

	Room 1	Room 2	Room 3
14:15	**Session 4: Sensors and Microbes – How sensors help us understand microbial processes in space and time**	**Session 5: Bone infections**	**Session 6: Fungal assisted green transition**
	Chair: Klaus Koren, Associate professor, Aarhus University Co-chair: Rikke Louise Meyer, DMS board	Chair: Louise Kruse Jensen, Professor of Experimental Pathology, University of Copenhagen Co-chair: Thomas Bjarnsholt, DMS board	Chair: Teis Esben Søndergaard, Associate professor, Aalborg University Co-chair: Ole Højberg, DMS board
14:20	**Judith Klatt,** Microcosm Earth Center, Marburg **Chasing benthic microbial processes: Small-scale dynamics and their significance in large-scale contexts**	**Louise Kruse Jensen,** Department of Veterinary and Animal Sciences, University of Copenhagen **Bone infections – from dinosaurs to PJI**	**Teis Esben Søndergaard**, Aalborg University **Development of a fungal battery for storing renewable energy**
14:45	**Lars Behrendt,** Uppsala University **Microenvironments to microbes: utilizing microphysiological platforms and particle-based sensing**	**Hans Gottlieb,** Herlev Hospital **Treatment of bone infections - setting up a specialized unit**	**Lene Lange,** LL-BioEconomy **New fungal technologies for Improved use of biological resources, contributing to food security & health, climate change mitigation & biodiversity**
15:00	**Theresa Merl,** Aarhus University **Sensing Soil - chemical imaging used as a map for biological activities**	**Mats Bue,** Aarhus University Hospital **Antibiotic bone penetration – what do we know?**	**Pablo Cruz-Morales,** DTU Biosustain **Learning chemistry from fungi to make sustainable chemicals**
15:15	**Mads Frederik Hansen** University of Copenhagen **Bacteria use exogenous peptidoglycan as a danger signal to trigger protective biofilm formation**	**Bethan Roberts** University of Nottingham **Studying P. aeruginosa aminopeptidase AaaA in a dual species synthetic chronic wound model**	**Michela Gambino** Institute of Conservation, The Royal Danish Academy **Biofilms and fungi as major challenges for the conservation of our cultural and natural heritage.**
15:25	**Julius Emil Brinck** Technical University of Denmark **Environmental pH regulates tryptophan metabolism in human gut microbes**	**Lili Yang** University of Copenhagen **Longitudinal characterization of Escherichia coli in the infant gut microbiome**	**Lucas van der Maas** Technical University of Denmark **Selection and domestication of novel environmental bacteria for the valorization of lignocellulosic biomass**
15:35	**Fabio Brocco** Liofilchem **Diagnostic solutions for tackling Antimicrobial Resistance**	**Tom Coenye** SYMCEL **Can we do better when it comes to diagnosing biofilm-related infections and predicting biofilm susceptibility?**	**Tatiana Timoshenko** Triolab **Product introduction of DNBSEQ-G99(A)RS**

Floor plan

Floor plan

Main entrance:
Thorvaldsensvej 40



Sponsors & Exhibitors

Company	Booth
Nordic Biosite	B1
TRIOLAB A/S	B2
SYMCEL	B3
PentaBase A/S	B4
Promega	C1
Biolab	C2
QuidelOrtho	C3
Dandiag A/S	C4
Copenhagen Biotech Supply	C5
Scientific Bioprocessing., Inc (sbi)	C6
INTEGRA BIOSCIENCES NORDIC ApS	C7
Saveen Werner	D1
AH diagnostics	D2
Frisenette ApS	D3
Ampliqon A/S	D4
In Vitro	D5
BioNordika Denmark A/S	D6
You Do Bio	D7
mBioWorks	D8

Industry

Industry flash talk A

12:35-12:50 **Room: 1**

Fast assay development as response to emergency

Abstract

The importance of rapid diagnostic and especially the rapid development of diagnostics has come clear during the last few years. Methods with functioning supply lines for fast detection of the SARS-CoV-2 virus without the need of new equipment was a necessity in the beginning of the Corona pandemic. PentaBase, in collaboration with Novo Nordisk and Rigshospitalet, rapidly developed a RT-qPCR method for dual-target detection of SARS-CoV-2 (CoviDetect™) which could be applied to the most common laboratory equipment. Soon after, this test was optimized, allowing for answers within two hours and the opening of air traffic. In this talk we will talk about some of the important things to consider when preparing for the next crisis.
How our in-house production and proprietary technology platform INA®, helped us respond fast. We will showcase this with examples of how we in response to new SARS-CoV-2 variants developed a series of mutation specific assays (CoviDetect™ Variants) for rapid identification of the SARS-CoV-2 strain in less than three working days. Furthermore, how our setup proved preparedness during the monkey pox outbreak, in which we developed an assay for Rigshospitalet.

Presenter

Sebastian Juul

Industry flash talk B

12:35-12:50 **Room: 2**

Nordic BioSite

Improving the Accuracy and Reproducibility of Microbiome Analysis

Abstract

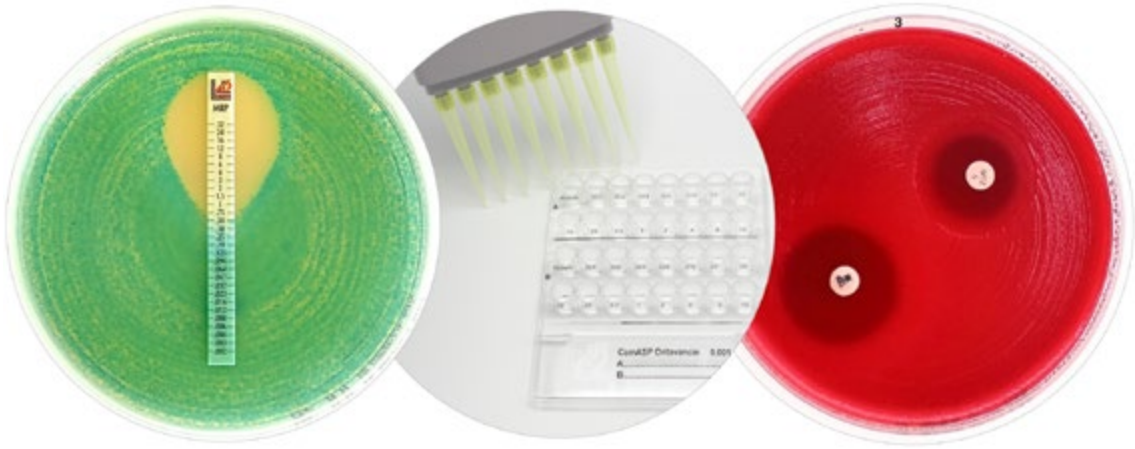
From sample collection to library preparation and analysis - Zymo Research's product portfolio offers a complete solution for your microbiome workflow. DNA/RNA Shield® Sample Collection Devices guarantee the preservation of the sample's nucleic acid profile while inactivating infectious agents completely. The ZymoBIOMICS® DNA/RNA extraction kits are optimized for complete, unbiased microbial lysis and undergo rigorous quality control to ensure low bioburden for all kit components. The ZymoBIOMICS® Microbial Community standards are well-defined, accurately characterized microbial mock communities that allow to improve and maintain quality and reproducibility of your microbiome analysis. The Quick-16S Plus NGS Library Prep Kit offers an automation-friendly, fast library preparation protocol involving only a single PCR-step and without the need for normalization.

Presenter

Dr. Patrick Tripp, Laboratory Director

Liofilchem Nordics ApS

Solutions for microbiology



Since 1983, Liofilchem® produces:

- devices for antimicrobial susceptibility testing such as MTS™ (MIC Test Strip), antibiotic discs, broth micro dilution panels, agar dilution panels, chromogenic culture media for resistance mechanisms detections.
- galleries and biochemical tests for microbial identification.
- ready to use culture media in petri dishes, tubes, bottles, bags and dip-slides.
- dehydrated culture media and growth supplements.
- swabs, contact plates and contact slides for the microbiological monitoring of surfaces.
- bio-indicators for the sterilization process validations and control.
- freeze-dried organisms for QC and growth promotion testing.
- sanitizers for skin and surfaces.

Liofilchem is certified by TÜV to ISO 9001 for the quality management and to ISO 13485 for the development and production of IVD devices. The Liofilchem products for clinical microbiology are CE marked and comply with the European IVD-D and IVD-R, the US FDA, Health Canada and are registered at the health authorities in many countries around the world.

The Liofilchem products are used in over 150 Countries.

Liofilchem Nordics ApS is the sales and representation center for Scandinavia, based in Copenhagen.

Headquarters, Manufacturing Site, International distribution center are based in Roseto degli Abruzzi, Italy.

Liofilchem, Inc. based in Waltham, MA, in the greater Boston area, is the US sales and distribution center.

www.liofilchem.com

Industry flash talk C

15:35-15:50 **Room: 1**

Diagnostic solutions for tackling Antimicrobial Resistance

Abstract

Antimicrobial resistance (AMR) is a global health threat that requires urgent multisectoral action. AMR occurs when microorganisms change over time and no longer respond to medicines making infections harder to treat and increasing the risk of disease spread, severe illness and death. As a result of drug resistance, antibiotics become ineffective and infections become increasingly difficult or impossible to treat. The cost of AMR to the economy is significant. In addition to death and disability, prolonged illness results in longer hospital stays, the need for more expensive medicines and financial challenges for those impacted.

Liofilchem, compliant to the US FDA, EUCAST, CE IVD-D and IVD-R standards, is highly committed to fight AMR and closely collaborates with pharmaceutical industries around the world to develop diagnostic devices with their new antimicrobial agents in sustainable and affordable formats, such us:

- MTS™ (MIC Test Strip)
- MTS™ Synergy Testing
- Antibiotic disks
- ComASP®
- Agar Dilution panels
- Chromogenic media for the antimicrobial resistance detection.

Come and learn more about Liofilchem's diagnostic solutions for tackling Antimicrobial Resistance.

Presenter

Fabio Brocco

Industry flash talk D

15:35-15:50 **Room: 2**

SYMCEL

Can we do better when it comes to diagnosing biofilm-related infections and predicting biofilm susceptibility?

Abstract

Our knowledge about fundamental aspects of biofilm biology, including the mechanisms behind the reduced antimicrobial susceptibility of biofilms, has increased drastically over the last decades. However, this knowledge has so far not been translated into major changes in clinical practice. While the biofilm concept is increasingly on the radar of healthcare professionals, the standardized tools to study biofilms in the clinical microbiology laboratory are still lacking; areas in which this is particularly obvious are those of diagnosis and antimicrobial susceptibility testing. In this short presentation I will present several novel approaches that could help bridge the gap between basic research and clinical application. These include (i) the use of various analytical approaches (WGS, MALDI, microcalorimetry) to predict biofilm susceptibility and (ii) the use of in vivo-like growth media combined with rapid analytical tools to detect microbial activity.

Presenter

Prof. Tom Coenye, University of Ghent on behalf of SYMCEL

TRIOLAB PRODUCT NEWS

DBBSEQ-G99

Brand new GENETIC SEQUENCER from MGI

The DNBSEQ-G99 is designed for
SPEED, SIMPLICITY & FLEXIBILITY !

Enabled by innovations in biochemistry, optics, fluidics, temperature control, and other core systems, DNBSEQ-G99 boasts the fastest speed without comprising quality amongst all medium-to-low throughput sequencers globally. DNBSEQ-G99 also comes with an optional build-in bioinformatics module, which allows advanced analysis to begin automatically after the sequencing run. This facilitates a tremendously efficient and simple workflow.

The DNBSEQ-G99 has

- the possibility to run independent operation of dual flow cells,
- a built-in bioinformatics module for advanced analysis,
- the capacity to do a run of PE150 ≤12h,
- an intuitive software and recognizable consumables.

CONTACT for further info
annkr@triolab.dk

TRIOLAB
Triolab AS Denmark is a professional sales organization, specialized in the import, marketing, sales, and technical support of IVD and LifeScience products. www.triolab.dk

Industry flash talk E

15:35-15:50 **Room: 3**

TRIOLAB

Product introduction of DNBSEQ-G99(A)RS

Abstract

Metagenomics, or environmental genomics, explores genetic material from diverse organisms within mixed communities, with applications in medicine, engineering, agriculture, and ecology. Next-generation sequencing (NGS) technology, like the DNBSEQ-G99 sequencer, has revolutionised microbiology. It rapidly identifies microbial compositions in samples. The DNBSEQ-G99 is the fastest benchtop sequencer, providing metagenomics data for up to 48 samples in 12 hours. It streamlines results into a single report when integrated with the Platform for Microorganism Fast Identification (PFI). This technology empowers researchers to swiftly identify microorganisms in human samples, pushing the boundaries of metagenomics across various fields.

Presenter

Tatiana Timoshenko, Product and Marketing Manager, MGI

Industry Directory

GOLD SPONSORS

Nordic Biosite **Booth no. B1**
www.nordicbiosite.com

Millions of products for your research Discover an extensive product range within numerous research areas. Search among more than 5.700.000 products for life science research and read about trends in biological sciences, technical tips and suggestions, and much more in our Life Science Blog.

Triolab **Booth no. B2**
www.triolab.dk

Triolab AS is a professional sales organization founded in 1991. We specialize in the import, marketing, sales, and technical support of IVD products. Due to our extensive product range and long experience in the field of clinical diagnostics, we have customers in all healthcare segments. Also veterinary institutions, pharmaceutical companies, and special university labs are among our customers. Our skilful and highly committed employees have a deep understanding of the market and our customers' needs, and they always meet our customers with an open mind, a friendly attitude, and a strong desire to find the best possible solution for each individual customer. In the field of microbiology, we have most recently entered into a distributor's agreement with MGI, a world-leading life science innovator, committed to developing and promoting advanced life science tools for future healthcare. MGI focuses on R&D, production and sales of DNA sequencing instruments, reagents, and related products.

SYMCEL **Booth no. B3**
www.symcel.com

Symcel provides a novel cell-based assay tool for realtime biological activity measurements using isothermal micro-calorimetry. Our solution, the calScreener™, delivers a pheno-typic, metabolic readout in real-time. By directly measuring the heat produced that result from metabolic processes in the sample, you get an energy output measured in µW, providing new insight, not previously possible with traditional methods. Measurements are sample independent, simply place your sample in the calScreener™ and let it do the rest.

PentaBase A/S **Booth no. B4**
www.pentabase.com

PentaBase is a Danish science-driven company established in 2007 by CEO Ulf Bech Christensen. Our products and services are based on unique DNA technologies providing innovative and superior PCR workflows. Our mission is to provide PCR-based assays that enable personalised treatment using sensitive, specific and robust monitoring of genetic biomarkers. Our approach is to continuously innovate and improve our products and services to provide novel or improved PCR-based solutions for the benefit of patients. We see every patient as a unique individual who deserves to be treated individually. It is pretty simple: We wish to participate in creating a healthier society through personalised detection, prevention, and treatment of diseases, based on precise and timely genetic diagnostics.

Savanna® - Next Generation Multiplex RT-PCR

From Sample to Result in Less than 25 Minutes!

Smart Size (25 x 25 x 21 cm)

Intuitive Touchscreen

Integrated Barcode-Scanner

LED Cartridge Bay

3 Satellite Ports

Scalable

Central unit plus up to 3 auxillary bays*

Respiratory Virus Panel 4
SARS-CoV-2, Influenza A+B, RSV

Further Panels in Development:

RVP 11
SARS-CoV-2, Influenza A+B, RSV, hMPV, Adenovirus, Rhinovirus, Enterovirus, Parainfluenza 1+3 & 2+4, Seasonal coronavirus

HSV 1+2, VZV, Syphilis

Gastrointestinal Panel 1
Bacteria and viruses

Gastrointestinal Panel 2
Parasites

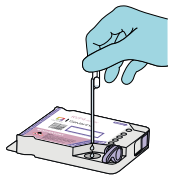
STI-Panel
Chlamydia, Neisseria, Mycoplasma, Trichomonas

Vaginitis Panel

Pharyngitis Panel

Smart Workflow

Step 1: Adding sample



Alternative: direct swab port*

Step 2: Inserting cartridge / starting test

~20 min. run time

Step 3: Reading results

* In development.

Features and Benefits:

- Reagents "Ready to use" in cartridge format (storage at room temperature)
- POCT – "True Sample to Result" – no sample preparation: Sample (or swab*) inserted directly into cartridge
- Target-Selection possible – only selected results will be reported – retrospective results up to 48 h later
- Very efficient nucleic acid isolation via use of magnetic beads
- Multiplex-Assays with up to 12 targets in 4 separate PCR chambers: thus reducing cross-reactivity
- Excellent heat transfer via double-sided Peltier element, enabling 40 PCR cycles in only 12 minutes
- CT-values reported and curves depicting all parameters
- Online connection via HL7 to LIS | KIS | POCT software

SS20412300EN00 (02/23)

QuidelOrtho™

Industry Directory

SILVER SPONSORS

Promega — **Booth no. C1**
dk.promega.com

Promega Corporation is a leader in providing innovative solutions and technical support to the life sciences industry. The company's portfolio of over 4,000 products supports a range of life science work across areas such as cell biology; DNA, RNA and protein analysis; drug development; human identification and molecular diagnostics. These tools and technologies have grown in their application over the last 45 years and are used today by scientists and technicians in labs for academic and government research, forensics, pharmaceuticals, clinical diagnostics and agricultural and environmental testing. Promega is headquartered in Madison, WI, USA with branches in 16 countries and over 50 global distributors

Biolab — **Booth no. C2**
www.biolab.dk

The company Biolab A/S is a Danish-owned trade and service company in the laboratory equipment industry founded in 1972. From our domicile in Risskov, our employees serve all of Denmark's most important research and educational institutions as well as the food, pharmaceutical and biotechnology industries. Biolab has been ISO-9001 Certified for over 25 years and our pipette calibration service is DANAK accredited. Through education, training and long seniority, we possess a unique knowledge and capacity within instrument integration and analysis automation.

QuidelOrtho — **Booth no. C3**
www.quidel.com

At QuidelOrtho, we are committed to developing and manufacturing innovative technologies that raise the performance of diagnostic testing and create better patient outcomes across the entire healthcare continuum. Ranked among the world's largest in vitro diagnostics (IVD) providers, QuidelOrtho is building on more than 120 years of collective experience and innovation. We combine industry-leading expertise in immunoassay and molecular testing with a global footprint in point-of-care settings, clinical labs, and transfusion medicine to advance critical diagnostic solutions at scale. Our point-of-care product portfolio covers a wide range of tests for infectious diseases, critical cardiac health and toxicology biomarkers, and a host of Covid-19 clinical and at-home products. With the aim to generate rapid results, our portfolio offers instruments with small footprints that can help in the implementation of streamlined patient management leading to improved clinical and economic outcomes.

Industry Directory

SILVER SPONSORS

Dandiag A/S **Booth no. C4**
www.dandiag.dk

Dandiag A/S is a family-owned company passionate about providing our customers with a professional service that matches our core competencies. We are recognized for our calibration of laboratory equipment and consulting within liquid handling, balances, automation, ultra-pure lab water, filtration and bio banking. Our equipment portfolio represents quality manufactures from Europe, which we distribute throughout the Nordics.

Copenhagen Biotech Supply **Booth no. C5**
www.cobio.dk

Copenhagen Biotech Supply focus on high quality products at competitive prices and personal service. Our suppliers are carefully selected to meet the needs of our customers in the best possible way, and they all provide excellent technical service. Currently, we offer molecular biology products from PCR Biosystems and Bioron, microbial growth media from CHROMagar and Alpha Biosciences, homogenization equipment and consumables from Omni, and analytical chemicals from Clearsynth and American Radiolabeled Chemicals.

Scientific Bioprocessing., Inc (sbi) **Booth no. C6**
www.scientificbio.com

Scientific Bioprocessing, Inc. (sbi) is dedicated to offering cutting-edge solutions for the life science industry, pioneering digitally simplified bioprocessing. sbi's DOTS platform provides modern bioprocessing sensors (for e.g., biomass, pH, or dissolved oxygen) and actuators, along with innovative software for sensor control and data monitoring. To learn more, visit www.scientificbio.com.

INTEGRA BIOSCIENCES NORDIC ApS **Booth no. C7**
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Abstract Overview & Poster Exhibition

Nr.	Title	First name	Surname
Oral abstract presenters			
1	Clinical P. aeruginosa prophages: insights into their role via their activity, abundance, persistence	Ifigeneia	Kyrkou
2	Quorum Sensing Molecular Signatures to Diagnose P. aeruginosa Infections	Juan	Raya Beltrán
3	Collective immunity – how groups of bacteria sense and respond to danger	Nina Molin	Høyland-Kroghsbo
4	Mechanism of phage sensing and abortion by toxin-antitoxin-chaperon systems	Vasili	Hauryliuk
5	Spatially resolved multi-omic landscape of the animal gut microbiome	Bryan	Wang
6	Environmental pH and compound structure affect the potential of short-chain carboxylic acids as antimicrobial metabolites	Ker-Sin	Ng
7	Environmental pH regulates tryptophan metabolism in human gut microbes	Julius Emil	Brinck
8	Bacteria use exogenous peptidoglycan as a danger signal to trigger protective biofilm formation	Mads Frederik	Hansen
9	Studying P. aeruginosa aminopeptidase AaaA in a dual species synthetic chronic wound model	Bethan	Roberts
10	Longitudinal characterization of Escherichia coli in the infant gut microbiome	Lili	Yang
11	Biofilms and fungi as major challenges for the conservation of our cultural and natural heritage.	Michela	Gambino
12	Selection and domestication of novel environmental bacteria for the valorization of lignocellulosic biomass	Lucas	van der Maas
Abstract poster presenters			
13	a pilot-scale microbial technology to enhance plastic degradation in a river	Yonggang	Yang
14	Bacterial Interactions in Soil regulate Pyoluteorin production in Pseudomonas protegens DTU9.1	Adelė	Kaltenytė
15	Production of Value-added Compounds from Lignocellulosic Biomass	Adrian	Frey
16	Computational screen for conserved RNA structures in cyanobacteria	Adrian	Geissler
17	Investigation of the Pouch Microbiome and Antimicrobial Resistance in Patients Suffering from Pouchitis	Alberte Holm	Møllekær
18	Control of the growth of Alicyclobacillus acidoterrestris spores and Byssochlamys ascospores using organic acid and heat treatment	Amila Srilal	Nawarathna
19	Lactose addition increases expression of fecal microbiota beta-galactosidases and the fermentative production of butyrate independent of the presence of starter cultures	Angeliki	Marietou
20	Intestinal transit time and the gut microbiota: causality and implications?	Anna Pii	Hjørne
21	Microbial community responses across three kingdoms and differential gene expression of phosphorus cycling genes to the addition of sewage sludge and sewage sludge biochar in soil revealed by TotalRNA metatranscriptomics	Athanasios	Zervas
22	Studying the Plasmidome of Denmark	Bertil	Sørensen
23	Comparing two methods for measuring efflux in bacteria	Bolette	Skive
24	Cultivation and imaging of Asgard archaea to illuminate the evolution of cellular complexity	Burak	Avci
25	On the biotransformation of Pseudomonads secondary metabolites	Carlos N.	Lozano-Andrade
26	Two are better than one: increased biofilm formation and modulated gene expression in dual-type communities of Cutibacterium acnes	Cecilie	Scavenius Brønnum Bjerg
27	Characterization of FimH in E. coli Isolated from Ulcerative Colitis Patients and Healthy Controls	Charlotte	Storck-Thy
29	Staphylococcus epidermidis eDNA and polysaccharide matrix protects biofilms from phagocytosis by PMNs	Dominique	Evans
30	From two sensors to a single sensor: better understanding of oxygen–sulfide interfaces	Fabian	Steininger
31	Explaining the forces behind microbial biogeography	Francesco	Delogu
32	Transcription of a toxin-antitoxin locus, xre-res, is regulated by a balance between RNA polymerase and TA complex binding	Frederik Oskar	Henriksen
33	G-quadruplexes in the extracellular matrix of Staphylococcus epidermidis biofilm	Gabriel Antonio	Minero
34	Bacterial efflux pumps excrete SYTO™ dyes from bacteria and lead to false-negative staining results	Peter	Larsen
35	Short-term (co-)adaptation in biofilms of Lactococcus lactis and Leuconostoc mesenteroides impacts growth parameters and interspecific interactions	Heiko T.	Kiesewalter
36	Identification of Bacterial Defense Mechanisms Against Conjugative Plasmids	Iva	Kovačić
37	Autoinducer 3: a one-step construction of the DPO ring system and the formation of both DPO isomers.	Jacob	Tofte
38	Clean Waters Ahead: Harnessing Salinity Fluctuations to Prevent Biofilm Formation in RO Membranes	Jan Struckmann	Poulsen
39	Genomic mobilisation by rRNA operon recombination – another route of phage transduction?	Janine	Bowring
40	Biological nitrification Inhibition – integrating wheat genetics, microbial ecology, and natural product chemistry to improve crop production.	Jasmeet	Bhambra
42	An Approach to Uncover DNA Methyltransferases in Metagenome-Assembled Genomes	Jeppe Støtt	Bøjer
43	Phage-encoded xenogeneic interference modulates quorum sensing and virulence in Pseudomonas aeruginosa	Jesper Juel	Mauritzen
44	Permissiveness towards resistance plasmids and plasmid fitness effect vary across Aeromonas from residual waters	Jianxin	Xu
45	The impact of environmental factors on ecological patterns of microbial succession within the first six years of life	Johanna	Ettingshausen

Nr.	Title	First name	Surname
46	The Importance of Spatial Organization and Matrix Production in Multispecies Biofilms during Phage Predation	Johannes Højlund	Olsen
47	Myxobacteria as off-flavour producers in recirculating aquaculture systems: Isolation and influence of nutrients on off-flavour generation	Julia	Södergren
48	Effects of agricultural practices on soil protist communities	Julie	Egelund Andersen
49	Novel genus of bacteriophages targets Danish soft rot isolates and represent promising biocontrol agents	Julie	Pedersen
50	Mound compartments and soil nutrients, but not symbiotic Podaxis fungi, drive microbial landscapes in Trinervitermes termite colonies	Kasun	Bodawatta
51	Microbiota's impact on infertility	Kenneth Andreas	Gustavussen
52	The Global Repressors MvaT and MvaU Regulate CRISPR-Cas Activity in Pseudomonas aeruginosa by Controlling Growth Rate	Kira Céline	Koonce
53	Viscosin from P. fluorescens SBW25 is regulated by the recognition of interspecies and interkingdom molecules through LuxR receptors	Kitzia Yashvelt	Molina Zamudio
54	Whole-cell biosensors for detection of bacterial and plant signals present in the soil microbiome	Kristoffer	Kordatos
55	Linking Biogenic High-Temperature Ice Nucleating Particles in Arctic soil and Streams to Their Microbial Producers	Lasse	Jensen
56	Empowering Antibiotics in the AMR Landscape: Insights from Dendrimer Conjugation in ALI systems	Laura Daniela	Martinenghi
57	Probing the dark matter of bacterial genomes: The complete sulfide oxidation pathway in cable bacteria hidden among hypothetical proteins	Lea Emilie	Plum-Jensen
58	Domestication of Pantoea sp. through genome-scale metabolic modelling and a genetic toolbox	Lies	van der Hejden
59	The dysbiosis of the acne skin microbiome and its decline after isotretinoin treatment	Cecilie	Feidenhans'l
60	Hot spots in Arctic soils: Are ancient Arctic settlements possible reservoirs for pathogenic agents?	Lorrie	Maccario
61	Characterisation of efflux pump regulation and activity in Pseudomonas aeruginosa	Mads Sloth	Kjærgaard
62	Ina gene expression in Pseudomonas syringae R1079 is affected by aerosolization	María	Palomeque Sánchez
63	Horizontal gene transfer in plant-based food	Rocio	Espinosa
64	Optimisation of Parageobacillus thermoglucosidasius for climate-positive acetone production	Marie	Millgaard
65	Long-term warming-induced trophic downgrading in the soil microbial food web	Mathilde	Dahl
66	Comparative analysis of biofilm matrix proteomes of Xanthomonas retroflexus wild type and Δfap mutant	Maximilian	Flaig
67	Deoxyhexoses as overlooked fermentation substrates for food microbes	Mensure	Elvan

Nr.	Title	First name	Surname
68	Microbial degradation of different carbon compounds and their impact on the microbial cryoconite community on the Greenland Ice Sheet	Mirjam	Paasch
69	Recording microbial signals in soil: Developing genetic memory devices for detection of specialized metabolites in microbiomes	Morten Lindqvist	Hansen
70	Isolation and characterization of robust therapeutic bacteriophages targeting Vancomycin Resistant Enterococci	Nicoline Munk	Mikkelsen
71	Extracellular G-quadruplex/hemin complexes in Staphylococcus epidermidis biofilms enhance peroxidase activity	Obinna	Ajunwa
72	Unlocking Microbial Dark Matter: A Metagenome Engineering Approach	Ole	Hylling
73	Effect of straw biochar on extracellular enzyme activity in sandy soils during barley growth	Paul	Iturbe-Espinoza
74	Conversion of methane to organic acids by gammaproteobacterial methanotrophs of lake and pond ecosystems	Antti	Rissanen
75	Microbial Insights into Peatland Carbon Cycling: Unveiling Methane Producers and Consumers for Sustainable Ecosystem Management	Rima	Al-Subaihi
76	Complexity Enhances Evolutionary Pressure in Multispecies Biofilms	Rocio	Espinosa
77	Unraveling the Role of Minerals in Antibiotic Resistance Gene Propagation: Implications for Environmental Health	Saghar	Hendiani
78	Intestinal Faecalibacterium prausnitzii abundance correlates with the effect of high-dose thiamine on chronic fatigue in patients with IBD in remission	Sandra	Bermudez Sanchez
80	Investigating the Ice Nucleation Active microorganisms in Arctic sea ice	Sibylle	Lebert
81	Identification of methylated motifs in complex samples using Nanopore sequencing	Søren	Heidelbach
82	1000+ new complete genomes aid discovery of natural products	Eva	Baggesgaard Sterndorff
83	Two plasmids, one phage: Understanding the entry of the plasmid-dependent PRD1-like bacteriophage	Van Hung Vuong	Le
84	Interrogating Microbial Dynamics: Comprehensive Assessments using the Galleria mellonella in vivo model	Victor Wolff	Bengtsen
85	A broad-host-range expression platform to facilitate chassis screening	Ácil Maria	de Almeida Will
86	Impact of Plasmid Incompatibility Groups on Conjugation Dynamics under Biocide Exposure	Zhiming	He
87	Quorum sensing inhibitors bind to Vibrio vulnificus SmcR and promote its degradation	Tanmaya	Rasal
88	Duplex ddPCR for Nasopharyngeal Pneumococcal Detection	Arnfinnur	Kallsberg
89	Development of Rapid Typing Method for Vancomycin-Resistant Enterococcus faecium	Claudia	Alfreet
90	Revolutionizing Sepsis Diagnosis and Antibiotic Resistance Determination: Nanopore Sequencing for Rapid High-throughput Pathogen Identification and Antibiotic Resistance Profiling in Bloodstream Infections	Luc	Kamomo-Jensen

Abstract Book

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Notes

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