



Invitation to CLEANROOM SYMPOSIUM & EXHIBITION R3 Nordic

23rd - 24th May 2023
Kick-off event 22nd May 2023
at Marienlyst Strandhotel,
Helsingør, Denmark.

Speakers & Topics

Authorities Expectations, EU GMP Annex 1 & 15 and the use of Standards

The Danish Medicines Agency's expectations for inspections and implementation of Annex 1

- *Thomas Vestergaard Pedersen (DK) Danish Medicines Agency*

Annex 1:2022 - Impact of revised Annex 1 on Design, Testing and Monitoring Cleanrooms and Clean Air Devices

- *Gordon Farquharson, Critical Systems Ltd (UK)*

CQV - The importance of Commissioning and Performance Verification as part of Q&V in Annex 15

- *Conor Murray (IRL) 3dimension*

The helpful standards

- *Marianne Vidkjær (DK) Danish Standards*

Risk Assessment, Gap-analysis & Contamination Control Strategy

Management of Risks to Product Safety, Quality and Sustainability

- *Roland Cocker (IRL) Cocker Consulting Ltd*

Risk assessment in practice

- *Kari Solem Aune (N) COWI*

GAP-analysis according to Annex 1

- *Ina Glamheden-Helle (S) Bavarian Nordic*

Implementation of Contamination Control Strategy

- *Kirsten Jorsal (DK) Ellab*

Overview of PHSS published guidance on Contamination Control Strategy preparation and experience from application

- *James Drinkwater (UK) FranzZiehl*



Speakers & Topics

Environmental Monitoring

Environmental microbial sampling

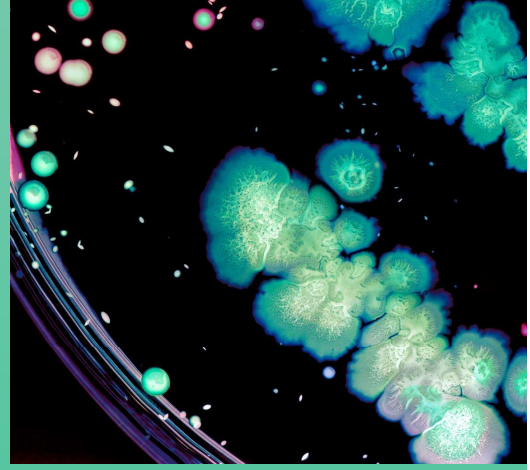
- *Sabine Bessières Recasens (F) Merck*

Microbiological impaction instruments - The importance of d50

- *Berit Reinmüller (S) Chalmers*

The challenge of microbiological contamination control and the role of the ISO 14644 family of "dashes"

- *Conor Murray (IRL) 3dimension*



Hospitals & Healthcare sector

Transmission of respiratory infections – clinical and theoretical knowledge post covid-19

- *Elsebeth Tvenstrup Jensen (DK) Statens Serum Institut*

Pandemic control strategies in built environment

- *Piia Sormunen (FI) Granlund*

Development of Ultraclean Air Operating Rooms

- *Bengt Ljunqvist (S) & Berit Reinmüller (S) Chalmers*

Healthcare sector – Lessons learned from new and existing sterilization units. -What's needed in order to be in control

- *Jan Mottlau (DK) Niras / Michael Jensen (DK) Niras*

Ensured cleanliness in healthcare premises. - Design process to achieve optimal local function regarding cleanliness

- *Lennart Hultberg (S) ProcessHygien*

Legionnaires' disease in Denmark: Legionellae - opportunistic pathogens present in most moist environments

- *Søren Uldum (DK) Statens Serum Institut*

Speakers & Topics

Cleaning & Disinfection

Aseptic behavior - cleaning & disinfection

- *Nadine Hoffmann (DK) Nadine Pharma Consulting*

The importance of detecting and effectively removing disinfectant residues in the GMP environment

- *Juliana Nassette (NL) Ecolab*

Biocides and cleaning in cleanrooms

- *Tor Hjelmer (S) Miclev*

New Shade of Ultraviolet Light Disinfects Air and Surfaces Around Us With no Harm to Humans

- *Peter Tønning (DK) UV Medico*

Experiments in reducing surface microbial levels within Hospital Environments using Hydrogen peroxide vapor and blue led light

- *Kim Hagström (FI) Halton*

What is clean? –And when is clean, clean enough?

- *Jette Holt (DK) Statens Serum Institut*

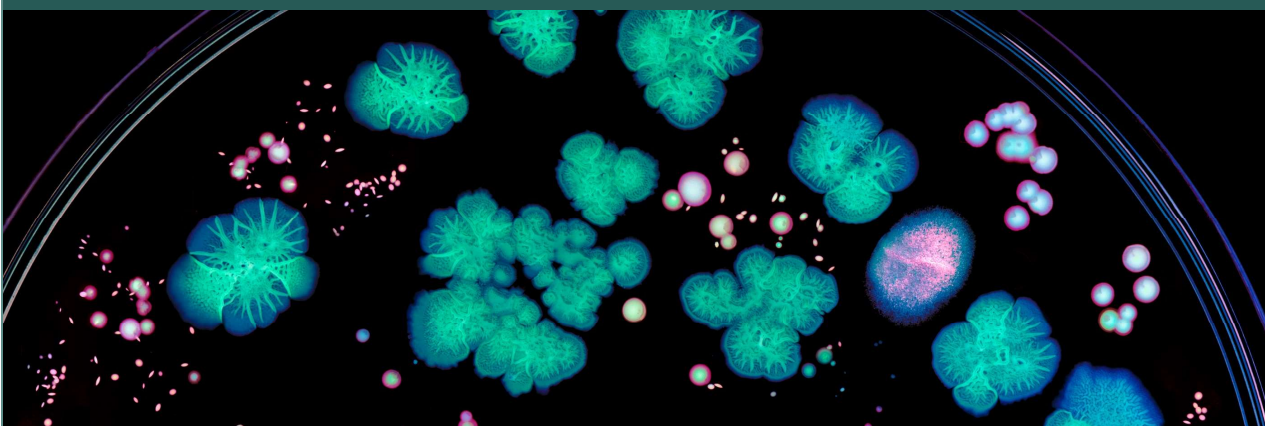
Barrier technology

Barrier technologies developments to meet Annex 1 requirements

- *James Drinkwater (UK) Franz Ziehl*

Contamination control of isolator

- *Yuanzhong Wang (DK) Novo Nordisk*



Speakers & Topics

Energy saving, HVAC, Waters systems & Cleanrooms

Energy efficient HVAC design for pharma

- *Ulla Thomsen (DK) Novo Nordisk*

Zero Carbon 2050 & Energy Reduction for Cleanrooms. Opportunities, standards/guidance and hazards

- *Gordon Farquharson (UK) Critical Systems Ltd (UK)*

Development of ultraclean air operating rooms

- *Bengt Ljungqvist (S)/Berit Reinmüller (S) Chalmers*

Energy saving in water production

- *Henrik Goldschmidt (DK) NNE*

Cleanroom testing

- *Svend Thygesen (DK) Bavarian Nordic*

Vertical transportation through controlled environments lift prototype for multipurpose use

- *Francesco Romano (I) Politecnico di Milano*

Radiopharmaceuticals to be or not to be

- *Anne-Mette Nielsen Wittekind (DK) Rigshospitalet*

Water systems for pharmaceutical production

- *Henrik Goldschmidt (DK) NNE*



Food

Food safety of cobots

- *Gun Wirtanen (FI) Seinäjoki University*

Hygiene in food industry

- *Kenth Kjærsgaard (DK) Niras*

The symposium provides a fantastic opportunity to acquire high level knowledge in many disciplines. Furthermore, it offers an unique business opportunities by helping to grow your network with other participants' businesses, both as audience and as speakers or exhibitors.

The program and registration to the Symposium can be found on R3 Nordic homepage

<https://r3nordic.org/produkt-kategori/courses/>

The R3Nordic society is a non-profit association with activities in research, training, production, and product development in controlled environments.



What : The 52nd R3Nordic Symposium

When: 23rd & 24th of May 2023

Kick-off event on the evening the 22nd

Where: Marienlyst Strandhotel

Nordre Strandvej 2A

3000 Helsingør

Denmark

Who: The symposium will be of interest for you in the area of pharma, life science, biotech, food and hospitals.