



# FINAL PROGRAM

## Cleanroom Symposium & Exhibition R3 Nordic

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**23<sup>rd</sup> - 24<sup>th</sup> May 2023 (8.30-17.00)**  
**Kick-off event 22<sup>nd</sup> May 2023 (18.30-21.00)**  
at Marienlyst Strandhotel,  
Helsingør, Denmark.

# Program 23<sup>rd</sup> of May

Start time (app.)	Track A	Track B
8.45	<b>Opening of the 52nd R3 Nordic Cleanroom Symposium &amp; exhibition</b> <i>Lene Blicher Olesen (DK),</i> <i>Chairperson R3 Nordic, NIRAS</i>	
9.00	Annex 1:2022 - Impact of revised Annex 1 on Design, Testing and Monitoring Cleanrooms and Clean Air Devices <i>Gordon Farquharson,</i> <i>Critical Systems Ltd (UK)</i>	
9.40	The Danish Medicines Agency's expectations for inspections and implementation of Annex 1 <i>Thomas Vestergaard Pedersen (DK)</i> <i>Danish Medicines Agency</i>	
10.20	<b>Coffee break</b>	
10.45	New regulatory trends: What impact on microbiological monitoring of clean environments? <i>Sabine Bessières Recasens (F)</i> <i>Merck</i>	The helpful standards  <i>Marianne Vidkjær (DK)</i> <i>Danish Standards</i>
11.25	Aseptic behavior - cleaning & disinfection  <i>Nadine Hoffmann (DK)</i> <i>Nadine Pharma Consulting</i>	Overview of PHSS published guidance on Contamination Control Strategy preparation and experience from application <i>James Drinkwater (UK)</i> <i>Franz Ziehl</i>
12.05	<b>Lunch</b>	
12.45	GAP-analysis according to Annex 1  <i>Ina Glamheden-Helle (S)</i> <i>Bavarian Nordic</i>	Microbiological impaction instruments - The importance of d50 <i>Berit Reinmüller (S)</i> <i>Chalmers</i>
13.25	Risk assessment in practice <i>Kari Solem Aune (N)</i> <i>COWI</i>	Water systems for pharmaceutical production <i>Henrik Goldschmidt (DK)</i> <i>NNE</i>
14.05	Implementation of Contamination Control Strategy  <i>Kirsten Jorsal (DK)</i> <i>Ellab</i>	The challenge of microbiological contamination control and the role of the ISO 14644 family of "dashes" <i>Conor Murray (IRL)</i> <i>3dimension</i>
14.45	<b>Coffee break</b>	
15.00	Barrier technologies developments to meet Annex 1 requirements  <i>James Drinkwater (UK)</i> <i>Franz Ziehl</i>	Detergents and disinfectants in cleanroom - How will the new GMP annex 1 affect cleaning and disinfection of cleanrooms <i>Tor Hjelmer (S)</i> <i>Miclev</i>
15.40	Contamination control of isolator  <i>Yuanzhong Wang (DK)</i> <i>Novo Nordisk</i>	The importance of detecting and effectively removing disinfectant residues in the GMP environment <i>Juliana Nassette (NL)</i> <i>Ecolab</i>
16.20	What is clean? -And when is clean, clean enough? <i>Jette Holt (DK) Statens Serum Institut</i>	
17.30	<b>Dinner</b>	

# Program 24<sup>th</sup> of May

Start time (app.)	Track A	Track B
8.30	Sustainable development and energy efficiency in cleanrooms <i>Jukka Vasara</i>	Pandemic control strategies in built environment <i>Piia Sormunen (FI)</i> <i>Granlund</i>
9.10	CQV - The importance of Commissioning and Performance Verification as part of Q&V in Annex 15 <i>Conor Murray (IRL)</i> <i>3dimension</i>	Transmission of respiratory infections - clinical and theoretical knowledge post covid-19 <i>Elsebeth Tvenstrup Jensen (DK)</i> <i>Statens Serum Institut</i>
9.50	Zero Carbon 2050 & Energy Reduction for Cleanrooms. Opportunities, standards/guidance and hazards <i>Gordon Farquharson (UK)</i> <i>Critical Systems Ltd (UK)</i>	Development of Ultraclean Air Operating Rooms  <i>Bengt Ljunqvist (S) &amp; Berit Reinmüller (S)</i> <i>Chalmers</i>
10.30	Energy efficient HVAC design for pharma  <i>Ulla Thomsen (DK)</i> <i>Novo Nordisk</i>	Ensured cleanliness in healthcare premises. - Design process to achieve optimal local function regarding cleanliness <i>Lennart Hultberg (S)</i> <i>ProcessHygien</i>
11.10	<b>Coffee break</b>	
11.30	Cleanroom testing  <i>Svend Thygesen (DK)</i> <i>Bavarian Nordic</i>	Healthcare sector - Lessons learned from new and existing sterilization units. -What's needed in order to be in control <i>Jan Mottlau (DK) NIRAS / Michael Jensen (DK)</i> <i>NIRAS</i>
12.10	Energy saving in water production  <i>Henrik Goldschmidt (DK)</i> <i>NNE</i>	New Shade of Ultraviolet Light Disinfects Air and Surfaces Around Us With no Harm to Humans <i>Peter Tønning (DK)</i> <i>UV Medico</i>
12.50	Legionnaires' disease in Denmark: Legionellae - opportunistic pathogens present in most moist environments <i>Søren Uldum (DK)</i> <i>Statens Serum Institut</i>	Experiments in reducing surface microbial levels within Hospital Environments using Hydrogen peroxide vapor and blue led light <i>Kim Hagström (FI)</i> <i>Halton</i>
13.30	<b>Lunch</b>	
14.15	Vertical transportation in controlled environments: A clean lift prototype for multipurpose use <i>Francesco Romano (I)</i> <i>Politecnico di Milano</i>	Hygiene in food industry  <i>Kenth Kjærsgaard (DK)</i> <i>NIRAS</i>
14.55	Radiopharmaceuticals to be or not to be <i>Anne-Mette Nielsen Wittekind (DK)</i> <i>Rigshospitalet</i>	Food safety of cobots <i>Gun Wirtanen (FI)</i> <i>Seinäjohti University</i>
15.35	Management of Risks to Product Safety, Quality and Sustainability <i>Roland Cocker (IRL)</i> <i>Cocker Consulting Ltd</i>	
16.15	<b>Closing of the 52nd R3 Nordic Cleanroom Symposium &amp; exhibition</b> <i>Alan Friis (DK)</i> <i>Boardmember R3 Nordic, Force</i>	

Come and meet our exhibitors  
and get the latest news within  
their field ...

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# Where, when & how?



**What :** The 52nd R3Nordic Symposium

**When:** 23rd & 24th of May 2023 (8.30-17.00)  
Kick-off event on the evening the 22nd (18.30-21.00)

**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.

## How to get there:

**By car:** Just 2km from E47

**By train:** Trains run on regularly basis from Copenhagen airport (1 shift) or Copenhagen Central station (direct) to Helsingør Station

**Registration:** Registration to the Symposium can be done on R3 Nordic´s homepage:  
<https://r3nordic.org/shop/courses/symposium-2023-prices-in-eur/>