

Turning the tide of antimicrobial resistance - TTA

TTA goes Nordic 2 April 27-28 2017

Venue: The Rotunda and Mezzanine at the University of Oslo at Gaustad

Program Day 1

9.30 Welcome to TTA goes Nordic 2 by Tone Tønjum

9.35 Opening remarks:
Finn-Eirik Johansen, Director UiO:Life Science, University of Oslo, Norway – TTA2 sponsor

9.40 Bjørn Erikstein, CEO, Oslo University Hospital, Norway – TTA2 sponsor

The current challenge of AMR

9.50 Jasper Littman, Robert Koch Institute: “Antibiotic resistance: An ethical challenge”

10.20 Niels Frimodt-Møller, Rigshospitalet, Copenhagen, Denmark: “The fight against AMR: The menace of vancomycin resistant enterococci (VRE) outbreaks”

10.40 Nina Langeland, University of Bergen, Norway: “Infection with resistant Gram-negative bacteria in children in Tanzania: mortality and risk factors”

11.00 Stephen Gordon, University College Dublin, Ireland: “One Health insights into Tuberculosis”

11.20 **Coffee**

The evolution of AMR

11.50 Jesús Blázquez, National Centre for Biotechnology, Madrid, Spain: “Low level antibiotic resistance: steps to clinical resistance and more”

12.10 Digby Warner, Cape Town University, South Africa: “A moving target: evolution of drug resistance in *Mycobacterium tuberculosis*”

12.30 Tim Tolker-Nielsen, University of Copenhagen, Denmark: “Multifaceted aminoglycoside antibiotic tolerance in biofilms”

12.50 Eliora Ron, Tel Aviv University, Israel: “Can we cope with antibiotic resistant septicemic *Escherichia coli*?”

13.10 Lene Juel-Rasmussen, University of Copenhagen, Denmark: “Host-microbe interaction driven by mismatch repair”

13.30 **Lunch**

14.30 Patrice Normann, University of Fribourg, Switzerland: “Resistance to polymyxins: the fall of the last soldier”

14.50 Ørjan Samuelsen, The Arctic University of Norway, Tromsø, Norway: “Genomic epidemiology of carbapenemase-producing *Enterobacteriaceae* in Norway”

15.10 Avinash Sonawane, KIIT University, Bhubaneswar, Orissa, India: “Mechanisms of host immune evasion and antimicrobial resistance by *Mycobacterium tuberculosis*”

15.30 Fredrik Almqvist, Umeå University, Sweden: “Discovery and development of Mycobacterial Tolerance Inhibitors; Disarming of isoniazid resistance in *Mycobacterium tuberculosis*”

15.50 **Coffee**

AMR detection

16.20 Dan Andersson, Uppsala University, Sweden: “Rapid determination of antibiotic resistance”

16.40 Patrice Normann, University of Fribourg, Switzerland: “Rapid diagnostic of emerging antibiotic resistance”

17.00 Closing remarks and practical information

19.00 Dinner, location to be announced

Program Day 2

09.00 Welcome to Day 2 by TTA

Novel drugs against AMR bugs

- 9.05 Diarmaid Hughes, Uppsala University, Sweden: “The evolutionary trajectory to fluoroquinolone resistance”
- 9.25 Jeremy P. Derrick, Manchester University, UK: “Antibiotic drug discovery- pitfalls and opportunities”
- 9.45 Pål Rongved, University of Oslo, Norway: “New technology to fight the ticking time-bomb of antimicrobial resistance”
- 10:05 Sven Bergström, Umeå University, Sweden: “Using 2-pyridone amide to treat and understand Chlamydia biology and pathogenesis”
- 10.25 **Coffee**

New principles in the treatment of AMR

- 10.55 Mona Johannessen, The Arctic University of Norway: “Know your enemy- then disarm them”
- 11.15 Ying Zhang, Johns Hopkins University, USA: “Pyrazinamide and Clofazimine: Two Critical Drugs for Shortening the Treatment of MDR-TB”
- 11.35 Birgitta Agerberth, Karolinska Institutet, Sweden: “Host-directed TB therapy involving the induction of antimicrobial peptides”
- 11.55 Magnus Steigedal, NTNU, Trondheim Norway: “New intervention strategy for tuberculosis: blocking multiple essential targets”
- 12.15 **Lunch**
- 13.15 Brigitte Gicquel, Institute Pasteur, Paris, France: “TBA”
- 13.35 Reeta Satokari, University of Helsinki, Finland: “Fecal microbiota transplantation and eradication of antibiotic resistant bacteria”
- 13.55 Magnus Lundgren, Uppsala University, Sweden: "Using gene technology against antibiotic resistant pathogens: prospects and concerns"

14.15 Hanna Tiainen, University of Oslo, Norway: "Polyphenolic nanocoatings for improved peri-implant healing"

14.35 **Coffee**

Current perspectives on handling AMR

15.05 Jens Lundgren, Rigshospitalet, Copenhagen, Denmark: "We suggest" Personalised medicine in AMR treatment"

15.45 Panel discussion on current AMR challenges

Panel members: Stener Kvinnsland, Eliora Ron, Lene Juel-Rasmussen, and Jasper Littman

How can we reduce the over-use of antibiotics?

How can we reduce the environmental spill-over of antibiotics?

What are the current black holes in AMR science?

How can international collaboration be strengthened?

16.30 Closing remarks by Fredrik Müller

