

# MEDICAL SCIENCES SUMMER SCHOOL ANTIMICROBIAL RESISTANCE 2017

## Antibiotic resistance, the threat to modern medicine

### PROGRAMME

Sunday, August 20<sup>th</sup>

Welcome and introduction to the overall theme

**Location:** Traversezaal

13.00 – 13.45	Registration and Fingerprint Coffee & Tea
13.45 – 14.30	Welcome and introduction by Prof. dr. Alex W. Friedrich
15.00 – 17.00	Central City Tour
17.00 – 18.30	Welcome drinks at the USVA (cultural student centre)
18.30	Social program by the Student Committee: Icebreaker activity



## Monday, 21<sup>th</sup> of August

<b>Theme:</b>	<b>Antimicrobial resistance Where does it come from, how does it occur?</b>
<b>Chair:</b>	<b>Prof. dr. Scheithauer (Göttingen, Germany)</b>
<b>Location:</b>	<b>Room 3215.0126</b>
09.00 – 09.25	Antimicrobial resistance. Speaker: to be confirmed
09.25 – 09.50	Damming the flood of antibiotic resistance. Dr. Erik Bathoorn (Groningen, The Netherlands)
09.50 – 10.15	Therapeutic drug monitoring (TDM) of antibiotics. Prof. dr. Bruno Verhasselt (Ghent, Belgium)
10.15 – 10.40	The role of biofilm formation in antibiotic resistance. Prof. dr. Tom Coenye (Ghent, Belgium)
10.40 – 11.00	Coffee & Tea
11.00 – 11.25	Rapid phenotypic methods for antimicrobial susceptibility testing. Dr. Martin Sundqvist (Örebro, Sweden)
11.25 – 11.50	The search for new antibiotics. Prof. dr. Oscar Kuipers (Groningen, The Netherlands)
12.00 – 13.00	Lunch: <b>Hall 3214 next to Keuningzaal</b>
13.00 – 15.00	<b>Lab practical: room 3215-0251 and 3215-0233</b> spa-typing (PCR on own randomized material) and extended antibiogram by Ing. Carien Bus-Spoor, Dr. Corinna Glasner, Dr. Girbe Buist (Dept. Medical Microbiology, UMCG, the Netherlands)
15.00 – 15.25	Coffee & Tea
15.25 – 16.00	Molecular mechanisms involved in staphylococcal biofilm formation. Prof. dr. Holger Rohde (Hamburg, Germany)
16.00 – 16.25	Antimicrobial Stewardship. Speaker: to be confirmed
16.25 – 16.50	Cost-efficiency modelling of antimicrobial stewardship and preventives measures. Dr. Jan-Willem Dik (Amsterdam, the Netherlands)
16.50 – 17.15	Antibiotic Prescribing Gamification. Prof. dr. Lisette van Gemert-Pijnen (Enschede, the Netherlands)
18.30	Welcome Dinner



**Tuesday, 22<sup>nd</sup> of August**

**Theme:**                   **Healthcare Associated Infections  
Epidemiology  
Diagnostics & Therapy**

**Chair:**                   **Prof. dr. Kohse (Oldenburg, Germany)  
Prof. dr. Friedrich (Groningen, the Netherlands)**

**Location:**               **Room: 3215.0126**

09.00 – 09.25	Healthcare associated infections. Prof. dr. Alex W. Friedrich (Groningen, the Netherlands)
09.25 – 09.50	Infection prevention and control + case presentation. Prof. dr. Simona Scheithauer (Göttingen, Germany)
09.50 – 10.15	Assessing the molecular epidemiology of antimicrobial resistant bacteria including zoonotic transmissions. Dr. Robin Köck (Oldenburg, Germany)
10.15 – 10.40	Molecular epidemiology. Dr. John Rossen (Groningen, the Netherlands)
10.40 – 11.00	Coffee & Tea
11.00 – 11.25	High-throughput diagnostics in patient care. Prof. dr. Klaus Kohse (Oldenburg, Germany)
11.25 – 11.50	Personalized prevention and therapy of i) infections caused by multi-drug resistant organisms (MDRO) in chronic wounds and of ii) device associated infections in the elderly. Prof. dr. Arndt Schilling (Göttingen, Germany)
11.50 – 12.15	Implementing MDRO control efforts in multicentre studies. Prof. dr. Marin Schweizer (Iowa, USA)
12.30 – 13.30	Lunch: <b>Hall 3214 next to Keuningzaal</b>
13.30 – 13.55	Current challenges in colistin susceptibility testing. Prof. dr. Spyros Pournaras (Athen, Greece)
13.55 – 14.20	Target and detect bacterial infections by labelled antibiotics. Dr. Marleen van Oosten (Groningen, the Netherlands)

14.20 – 14.45	MDRO in the Euregio. Speaker: to be confirmed
14.45 – 15.10	Coffee & Tea
15.10 – 17.00	Development of research questions/ hypothesis /design study and discussion in small groups
17.00	Prepare pitch presentation

### Wednesday, 23<sup>rd</sup> of August

**Theme:** **Practical: Diagnostics**

**Location:** **Room 3215-0251 and 3215-0233**

**Supervisors:** Dr. Girbe Buist  
Ing. Carien Bus-Spoor  
Dr. Corinna Glasner  
Dr. Adriana Tami  
(Dept. Medical Microbiology, UMCG, the Netherlands)

09.00 – 11.00 Gel electrophoresis PCR Spa-typing  
Interpretation spa-typing in combination with antibiogram

11.00 – 12.00 Sequence analysis.  
Dr. Girbe Buist (Groningen, the Netherlands)

12.00 – 13.00 Lunch: **Hall 3214 next to Keuningzaal**

**Theme:** **Practical: Infection prevention and control**

**Location:** **Skills Center, entrance 21, 1<sup>st</sup> floor**

**Supervisors:** Dr. Anna Boef  
Tiny Jilesen  
Drs. Claudy Oliveira dos Santos  
Drs. Wouter Rottier  
Dr. Adriana Tami  
Norma Welles

13.00 – 17.00 Isolation and infection prevention measures in small groups in  
simulated patient rooms with actors as patients

**Thursday, 24<sup>th</sup> of August**

**Theme: Infection risks in a susceptible population, One Health**

**Chair: to be announced**

**Location: Room 3214.0081**

09.00 – 09.25	Emerging Infectious Diseases: an Overview Dr. Nicola Petrosillo (Rome, Italy)
09.25 – 09.50	High prevalence of infectious diseases and drug-resistant microorganisms in asylum seekers admitted to hospital. Prof. dr. Ymkje Stienstra (Groningen, the Netherlands)
09.50 – 10.15	Effect of hospitalization and antibiotic use on the microbiome. Dr. Hermie Harmsen (Groningen, the Netherlands)
10.15 – 10.40	A veterinarian point of view on antimicrobial resistance. Speaker: to be confirmed
10.40 – 11.00	Coffee & Tea
11.00 – 11.25	Shotgun metagenomics. Natacha Couto (Groningen, the Netherlands)
11.25 – 11.50	Antibiotic resistance in water. Drs. Ilse Verburg (Groningen, the Netherlands)
12.00 – 13.00	Lunch: <b>Hall 3214 next to Keuningzaal</b>
13.00 – 15.00	Pitch presentations
15.00 – 15.15	Award for best research proposal
15.15 – 15.30	Conclusive remarks by Prof. dr. Alex Friedrich
15.30	Farewell drinks: <b>Hall 3214 next to Keuningzaal</b>