MEDICAL SCIENCES SUMMER SCHOOL ANTIMICROBIAL RESISTANCE 2017

Antibiotic resistance, the threat to modern medicine

PROGRAMME

Sunday, August 20th

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, 21st of August

Theme: **Antimicrobial resistance**  
Where does it come from, how does it occur?

Chair: Prof. dr. Scheithauer (Göttingen, Germany)

Location: Room 3215.0126

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09.00 – 09.25</td>
<td>Antimicrobial resistance. Speaker: to be confirmed</td>
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<td>09.25 – 09.50</td>
<td>Damming the flood of antibiotic resistance. Dr. Erik Bathoorn (Groningen, The Netherlands)</td>
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<td>09.50 – 10.15</td>
<td>Therapeutic drug monitoring (TDM) of antibiotics. Prof. dr. Bruno Verhasselt (Ghent, Belgium)</td>
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<td>10.15 – 10.40</td>
<td>The role of biofilm formation in antibiotic resistance. Prof. dr. Tom Coenye (Ghent, Belgium)</td>
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<td>10.40 – 11.00</td>
<td>Coffee &amp; Tea</td>
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<td>11.00 – 11.25</td>
<td>Rapid phenotypic methods for antimicrobial susceptibility testing. Dr. Martin Sundqvist (Örebro, Sweden)</td>
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<td>11.25 – 11.50</td>
<td>The search for new antibiotics. Prof. dr. Oscar Kuipers (Groningen, The Netherlands)</td>
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<td>12.00 – 13.00</td>
<td>Lunch: <strong>Hall 3214 next to Keuningzaal</strong></td>
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<td>13.00 – 15.00</td>
<td><strong>Lab practical: room 3215-0251 and 3215-0233</strong> 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)</td>
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<td>15.00 – 15.25</td>
<td>Coffee &amp; Tea</td>
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<td>15.25 – 16.00</td>
<td>Molecular mechanisms involved in staphylococcal biofilm formation. Prof. dr. Holger Rohde (Hamburg, Germany)</td>
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<td>16.00 – 16.25</td>
<td>Antimicrobial Stewardship. Speaker: to be confirmed</td>
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<td>16.25 – 16.50</td>
<td>Cost-efficiency modelling of antimicrobial stewardship and preventives measures. Dr. Jan-Willem Dik (Amsterdam, the Netherlands)</td>
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<td>16.50 – 17.15</td>
<td>Antibiotic Prescribing Gamification. Prof. dr. Lisette van Gemert-Pijnen (Enschede, the Netherlands)</td>
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<td>18.30</td>
<td>Welcome Dinner</td>
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Tuesday, 22nd 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: **Hall 3214 next to Keuningzaal**

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)
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<tr>
<td>14.20 – 14.45</td>
<td>MDRO in the Euregio. Speaker: to be confirmed</td>
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<td>14.45 – 15.10</td>
<td>Coffee &amp; Tea</td>
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<td>15.10 – 17.00</td>
<td>Development of research questions/ hypothesis /design study and discussion in small groups</td>
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<td>17.00</td>
<td>Prepare pitch presentation</td>
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Wednesday, 23rd 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, 1st floor

**Supervisors:** Dr. Anna Boef  
Tiny Jilesen  
Drs. Claudiy 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, 24th 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: Hall 3214 next to Keuningzaal

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: Hall 3214 next to Keuningzaal