

FEBRUARY 17 - 18, 2026

2nd INTERNATIONAL SYMPOSIUM

EVOLUTIONARY AND CLINICAL ASPECTS OF ANTIINFECTIVE RESISTANCE

KEYNOTE SPEAKERS: _____

Stephen Doyle | Charlotte Lauridsen

Colin Ross Parrish | Vincent Perreten

Jens Rolff | Katharina Schaufler

Hinrich Schulenburg | Barbora Trubenova

Attendance at the event counts as further training within the meaning of §10 of the ATF statutes. _____



SCHOOL OF VETERINARY MEDICINE
FREIE UNIVERSITÄT BERLIN
Veterinarium Progressum
Oertzenweg 19 B | 14163 Berlin

The 2nd International Symposium at the Veterinary Centre for Resistance Research (Tiermedizinisches Zentrum für Resistenzforschung, TZR, <https://www.vetmed.fu-berlin.de/einrichtungen/sonstige/tzr/Veranstaltungen/index.html>), Freie Universität Berlin, Germany, will be held on the **17th/18th of February 2026**.

The symposium on **“Evolutionary and Clinical Aspects Of Antiinfective Resistance”** will host eight keynote lectures from internationally acknowledged scientists in the field of antiinfective resistance research. The symposium will see four sessions on: evolutionary factors (1), molecular mechanisms (2), mitigation (3) and clinical consequences (4) of antiinfective resistance evolution. There will also be the opportunity to present latest own research findings related to the topic of the symposium via oral or poster presentations on site.



Fachbereich Veterinärmedizin
der Freien Universität Berlin



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**Conference
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Programme:

17.02.2026

13:00 **Georg von Samson-Himmelstjerna and Uwe Rösler: Welcome**

Session I: Evolutionary factors and drivers of anti-infective-resistance development

(Chair: Raffi Aroian)

13:15 **Keynote 1: Jens Rolff**

Tackling the Complexity of Antimicrobial Resistance Evolution

13:45 **SOP 1: Maren Herzog**

Antimicrobial resistance evolution: concordance of *in vitro* and *in vivo* studies

14:00 **SOP 2: Jacqueline Hellinga**

Evolution of Ivermectin Resistance in *Caenorhabditis elegans*: A Genomic and Transcriptomic Study

14:15 **SOP 3: Henrike Krüger-Haker**

Molecular evolution of mobile genetic elements mediating (multidrug) resistance in Pasteurellaceae of pigs and cattle

14:30 **Keynote 2: Katharina Schaufler**

When antimicrobial resistance meets virulence: convergence, underlying mechanisms, and fitness impact in selected *Klebsiella pneumoniae*

15:00 General discussion

15:30 **Coffee and poster session**

Session II: Molecular mechanisms of anti-infective-resistance evolution

(Chair: Jens Rolff)

16:00 **Keynote 3: Hinrich Schulenburg**

Evolutionary medicine of antimicrobial therapy: How to use evolutionary principles to control antimicrobial resistance in bacterial pathogens

16:30 **SOP 4: Bosco Matamoros Rodríguez**

Uncovering Hidden Reservoirs of the Aminoglycoside Resistance Gene *npmA* across Human, Animal and Environmental Microbiomes

16:45 **SOP 5: Stefan Schwarz**

Evolution of Resistance to Oxazolidinones - a Class of Last Resort Antimicrobial Agents - in Bacteria of Human and Animal Origin

17:00 **SOP 6: Sarah M. Metzger**

Molecular mechanisms of recombination in coronaviruses and implications for the evolution of drug resistance

17:15 **SOP 7: Raffi Aroian**

Bacillus thuringiensis Crystal Proteins: Discovering an Arsenal Against Anthelmintic Resistance

17:30 **Keynote 4: Steve Doyle**

Resolving the genetics of anthelmintic resistance, from the lab to the field

18:00 General discussion

18:30 End of Session/ Wrap-up of first day

19:00 **Dinner**

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Session III: Approaches to prevent or mitigate evolution of anti-infective resistance

(Chair: Jürgen Krücken / Benedikt Kaufer)

- 09:00 **Keynote 5: Charlotte Lauridsen**
Reducing antimicrobial resistance burden from livestock production targeting pig gut health
- 09:30 **SOP 8: Caroline Robé**
Blood culture diagnostics using direct and short-term incubation methods for rapid pathogen identification and antimicrobial susceptibility testing in veterinary medicine
- 09:45 **SOP 9: Cédric Neveu**
Rational selection of drug targets for the control of multi-resistant parasitic nematodes: Need for a change of paradigm?
- 10:00 **SOP 10: Benedikt Kaufer**
Latency and integration of MDV vaccines
- 10:15 General discussion
- 10:45 **Coffee and poster session**
- 11:15 **Keynote 6: Collin Parrish**
Understanding the Parallel Evolution of Emerging Parvoviruses and H₃N₂ Influenza Viruses in Their Original and New Hosts
- 11:45 **SOP 11: Olga Makarova**
Multidrug-resistant pandemic lineages of ESBL-producing *Escherichia coli* identified in equine clinic patients and environment
- 12:00 **SOP 12: Roswitha Merle**
Multi-pathway Quantitative Microbial Risk Assessment Model for Evaluating Human Exposure to ESBL-Producing *E. coli* from Broiler Production
- 12:15 **SOP 13: Fabian Conradi**
Fitness impact of native β -lactamase plasmids on broiler-associated *E. coli*
- 12:30 General discussion
- 13:00 **Lunch and poster session**

Session IV: Clinical and veterinary public health consequences of anti-infective-resistance evolution

(Chair: Stefan Schwarz)

- 14:00 **Keynote 7: Vincent Perreten**
Spread of bacterial resistance to critically important antimicrobials in animals
- 14:30 **SOP 14: Tina Kabelitz**
Influence of hygiene improvements on antimicrobial resistance mitigation in pig husbandry and the role of flies as transmission vectors
- 14:45 **SOP 15: Khalid M. Mohammedsalih**
High efficacy of consecutively administered anthelmintic combinations against resistant gastrointestinal nematodes in goats
- 15:00 **Keynote 8: Barbora Trubenova**
Beyond Boundaries: Drug Resistance Evolution from a Cross-Taxonomic Perspective
- 15:30 General discussion
- 16:00 End of Session / Wrap-up of second day / Closing remarks and departure