

Chairs & Speakers

- **Muna Abu Sin** (Antimicrobial Resistance Ambassador of the Federal Ministry of Health, Berlin, Germany)
- **Anand Anandkumar** (Co-Founder & CEO of Bugworks Research Inc, Bangalore, India)
- **Till Bärnighausen** (Heidelberg Institute of Global Health, Heidelberg University, Germany)
- **Thomas Berendonk** (Institute of Hydrobiology, Technische Universität Dresden, Germany)
- **Christina Berndt** (Süddeutsche Zeitung, Munich, Germany)
- **Jan Buer** (University Hospital of Essen, Germany)
- **Pau De Yebra Rodó** (Leibniz Institute for Freshwater Ecology and Inland Fisheries/Leibniz Institute for Zoo and Wildlife Research, Berlin, Germany)
- **Denise Dekker** (Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany)
- **Margo Diricks** (Research Center Borstel, Leibniz Lung Center, Germany)
- **Lisa Eichler** (Leibniz Institute of Ecological Urban and Regional Development, Germany)
- **Hans-Peter Grossart** (Leibniz Institute for Freshwater Ecology and Inland Fisheries, Berlin, Germany)
- **Renate Hartwig** (RWI Leibniz Institute for Economic Research, Essen, and University of Bochum, Germany)
- **Christina Hölzel** (Animal Hygiene, Animal Health and Food Hygiene, Kiel University, Germany)
- **Megarsa Bedasa Jaleta** (Leibniz Institute for Agricultural Engineering and Bioeconomy e.V., Potsdam, Germany)
- **Baban Kolte** (Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Braunschweig, Germany)
- **Michaela Lackner** (Institute for Hygiene and Medical Microbiology, Medical University of Innsbruck, Austria)
- **Ramanan Laxminarayan** (Princeton University and One Health Trust, the former Center for Disease Dynamics, Economics & Policy, Washington DC, USA)
- **Lena Merkel** (Bernhard Nocht Institute for Tropical Medicine/GIGA German Institute of Global and Area Studies, Germany)
- **Matthias Merker** (Research Center Borstel, Leibniz Lung Center, Germany)
- **Sahar Saeedi Moghaddam** (The Kiel Institute for the World Economy, Kiel, Germany)
- **Ulrich Nübel** (Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Braunschweig, Germany)
- **Ulrich E. Schaible** (speaker of Leibniz Research Alliance INFECTIONS, Research Center Borstel, Leibniz Lung Center, Germany)
- **Stefan Schwarz** (Freie Universität Berlin, Germany)
- **Anja Silge** (Leibniz Institute of Photonic Technology, Jena, Germany)
- **Michael Stolpe** (The Kiel Institute for the World Economy, Kiel, member of the DFG-funded Excellence Cluster Precision Medicine in Chronic Inflammation, Germany)
- **Claire Taylor** (Research Center Borstel, Leibniz Lung Center, Germany)
- **Bernd-Alois Tenhagen** (German Federal Institute for Risk Assessment, Unit Epidemiology, Zoonoses and Antimicrobial Resistance, Berlin, Germany)
- **Sigrid Weiland** (Policy Coordinator in Unit 01 "Policy strategy", DG Santé, European Commission, Brussels, Belgium)
- **Doreen Werner** (Leibniz Centre for Agricultural Landscape Research, Germany)
- **Heiman Wertheim** (Head Clinical Microbiology Department at Radboud University Medical Center, Chair Radboud Center of Infectious Diseases (RCI) in Nijmegen, the Netherlands, & WHO expert panel developing a priority pathogens list of antimicrobial resistant bacteria)
- **Lothar Wieler** (Chair of Digital Global Public Health, Hasso Plattner Institute Potsdam, Germany, and member of the Global Leaders Group on Antimicrobial Resistance)

Improved hygiene and better prevention and treatment have diminished the incidence of infectious diseases particularly in industrialized countries over the past decades, with antibiotics playing a major role in removing the fear of infectious diseases. However, increasing antimicrobial resistance and emergence of new pathogens, together with changes in pathogen distribution due to altered climate and mobility are increasing global challenges for humankind.

Working on a strong interdisciplinary and cooperative infection research agenda the Leibniz Research Alliance „**INFECTIONS in an Urbanizing World – Humans, Animals, Environments**“ opens up new avenues of communication across disciplines to approach the globally relevant health and societal challenge of infectious disease transmission with focus on the spread of antimicrobial resistant microbes. Experts from various scientific fields will present their latest findings. Young researchers will present in a poster session. A panel discussion will conclude the symposium.

Location

Leibniz-Institut für Analytische Wissenschaften - ISAS - e.V.
Otto-Hahn Straße 6b, 44227 Dortmund, Germany

Registration

Registration is free of charge. Participants are expected to meet their own accommodation and travel expenses.
<https://fzb-veranstaltungen.de/infections-symposium2025>

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**ANTIMICROBIAL
RESISTANCE**
THE SILENT PANDEMIC

INFECTIONS - Symposium
**“Antimicrobial resistance:
The silent pandemic”**

Location: ISAS, Dortmund
Date: 10-11 March 2025



PROGRAM

Monday, 10 March 2025

09.30	Registration
10.30	Opening by Ulrich Schaible (Speaker LRA INFECTIONS, FZB) & Welcome addresses
Session I:	Drivers of AMR: Overuse, underuse, abuse, stewardship Chair: Ulrich Schaible (FZB)
11.00	Keynote: Climate Change and antimicrobial resistance: Converging global health threats <i>Till Bärnighausen (University Heidelberg)*</i>
11.40	AMR challenges: Examining self-medication and confidence in prescribing in West Africa <i>Lena Merkel (BNITM/GIGA German Institute of Global and Area Studies)</i>
11.55	Antimicrobial resistance genes in livestock - which are relevant for humans, and why? <i>Christina Hölzel (Kiel University)</i>
12.20	Lunch & Poster session
14.20	Dynamics of AMR in aquatic systems and interactions with pollutants <i>Hans-Peter Grossart (IGB)</i>
14.45	Epidemiology of antimicrobial resistant bacteria in Ghana and Tanzania: Through the lens of One Health <i>Denise Dekker (BNITM)</i>
15.10	Drivers of antimicrobial resistance: Economic inequality, corruption and access to antibiotics in 204 countries & territories <i>Sahar Saeedi Moghaddam (IfW)</i>
15.25	Use drives resistance - or is it more complex? <i>Bernd-Alois Tenhagen (BfR)</i>
15.50	Coffee
Session II:	Evolution of AMR mechanisms Chair: Hans-Peter Grossart (IGB)
16.20	Keynote: Unraveling azole resistance in fungal pathogens: Insights into mechanisms and implications for One Health <i>Michaela Lackner (Medical University of Innsbruck)</i>

17.00	Fate of AMR microbes in mixed bacterial-fungal consortia <i>Claire Taylor (FZB)</i>
17.15	Evolution of antibiotic resistance in Mycobacterium abscessus isolated from cystic fibrosis patients <i>Margo Diricks (FZB)</i>
17.40	Break
18.00	Resistance determinants against therapeutic antibiotics from public Clostridioides difficile genome sequences <i>Baban Kolte (DSMZ)</i>
18.15	AMR evolution over epidemic timescales <i>Ulrich Nübel (DSMZ)</i>
18.40	Long-term evolution of β -lactam resistance in Haemophilus influenzae <i>Matthias Merker (FZB)</i>
19.05	End of today's program

PROGRAM

Tuesday, 11 March 2025

Session III:	Epidemiology and ecology of AMR transmission and AMR detection Chair: Christina Hölzel (Kiel University)
09.00	Keynote: The role of mobile genetic elements in the dissemination of oxazolidinone resistance genes <i>Stefan Schwarz (FU Berlin)</i>
09.40	Antibiotic resistance in the environment - monitoring, mechanisms and processes <i>Thomas Berendonk (TU Dresden)</i>
10.05	Tracking antimicrobial resistance genes in weaner pigs: the abundance and mitigation <i>Megarsa Bedasa Jaleta (ATB)</i>
10.20	Shedding light on antimicrobial resistance and host response: how Raman spectroscopy offers new opportunities in diagnostics. <i>Anja Silge (IPHT)</i>
10.45	Coffee

11.15	Aquatic ecosystems: Habitat for antimicrobial resistance genes (ARGs) <i>Pau De Yebrá Rodó (IGB/IZW)</i>
11.30	The transmission pathway of AMR via the vector common housefly from a spatial perspective <i>Lisa Eichler (IOER)</i>
11.45	How can citizens support studies on AMR spread? <i>Doreen Werner (ZALF)</i>
12.00	New challenges in clinical infectious diseases <i>Jan Buer (University Hospital of Essen)</i>
12.25	Lunch
Session IV:	Panel discussion: Policy strategies to overcome the global AMR crisis Moderator: Christina Berndt (Süddeutsche Zeitung)
13.25	Keynote: Policy Strategies to Overcome the Global AMR Crisis <i>Ramanan Laxminarayan (Princeton University)</i>
14.05	Panel Discussion with Pitch Talks (3') <ul style="list-style-type: none"><i>Muna Abu Sin (Federal Ministry of Health)</i><i>Anand Anandkumar (Co-Founder & CEO of Bugworks Research Inc, Bangalore, India)*</i><i>Renate Hartwig (RWI & University of Bochum)</i><i>Ramanan Laxminarayan (Princeton University)</i><i>Michael Stolpe (IfW)</i><i>Sigrid Weiland (European Commission)</i><i>Heiman Wertheim (Radboud University Medical Center & WHO)</i><i>Lothar Wieler (HPI)</i>

14.30	Panel discussion
15.55	Wrap-up, lessons learned
16.30	Farewell, end of Symposium

*Online Participation