



CARPE DIEM: Challenging Antibiotic Resistance: Perspectives on Novel Tools and Diagnostics for Efficient Management

Workshop jointly hosted by

Global AMR R&D Hub, Germany

&

Manipal School of Life Sciences, India

16th - 17th May, 2022
Harnack Haus, Berlin



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Day 1



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Day 1

DAY 1 – May 16, 2022	
INAUGURATION	
10.00 AM – 10.30 AM	Arrival and Welcome - Dr. Kapaettu Satyamoorthy, Director, MSLS, MAHE, and Dr. Ralf Sudbrak, Global AMR R&D Hub
10.30 AM – 11.00 AM	Inaugural Program - Dr. Ludwig Kammesheidt, German Aerospace Center (DLR) – International Bureau, and Mr. Rajachandran Madhan, Director, Indo-German Science & Technology Centre
11.00 AM – 11.20 AM	COFFEE BREAK

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THEME: ADVANCES IN ANTIBIOTIC RESEARCH AND DEVELOPMENT Moderators: Prof. Dr. Mark Brönstrup and Dr. Bipin Nair		
11.20 AM – 11.40 AM	Prof. Dr. Mark Brönstrup, Helmholtz Centre for Infection Research, Braunschweig	Assault, Siege or Trojan Horse Strategy: Use of Natural Products to Fight Bacterial Infections
11.40 AM – 12.00 NOON	Dr. Alexander Titz, Helmholtz Institute for Pharmaceutical Research Saarland	Bacterial lectins as targets for antibiofilm agents, targeted drug delivery and imaging probes
12.00 NOON – 12.20 PM	Dr. Bipin Nair, Amrita Vishwa Vidyapeetham, Cochin	Bacteriophages as a tool to target AMR in ESKAPE Pathogens
12.20 PM – 12.40 PM	Dr. Michael Hölscher, Ludwig-Maximilians-Universität Hospital, München	UNITE4TB – An Academic Industry Collaboration – a new era in tuberculosis treatment development
12.40 PM – 01.00 PM	PANEL DISCUSSION AND SUMMARY BY MODERATORS	
01.00 PM – 02.00 PM	LUNCH	

Day 1



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THEME: PUBLIC HEALTH CONSEQUENCES OF ANTIMICROBIAL RESISTANCE Moderators: Dr. Till Bachmann and Dr. Ranga Reddy Burri		
02.00 PM – 02.20 PM	Dr. Ralf Sudbrak, Global AMR R&D Hub, Berlin	From Data to Action – evidence-based decision making
02.20 PM – 02.40 PM	Dr. Anusha Rohit, Madras Medical Mission, Chennai	Epidemiology and control of antimicrobial resistance in tertiary care centers
02.40 PM – 03.00 PM	Dr. Ranga Reddy Burri, University of Hyderabad, IC Academy of India	AMR - therapeutic dead end with lofty public health consequences
03.00 PM – 03.20 PM	Ms. Shruptha Padival, MAHE, Manipal	Antibiotic resistance in cancer
03.20 PM – 03.40 PM	Dr. Till Bachmann, Chair of SAB, JPIAMR	Future action plans to fight antibiotic resistance
03.40 PM – 04.00 PM	COFEE BREAK AND DISCUSSION	

Day 1

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THEME: COMMERCIAL LANDSCAPE FOR ANTIBIOTICS Moderators: Dr. Lesley Ogilvie and Dr. Jörg Nestler		
04.00 PM – 04.20 PM	Dr. Lisa Juliane Kahl, Charité, Berlin	Bacterial-fungal co-infections and their role in the evolution of antimicrobial resistance
04.20 PM – 04.40 PM	Dr. Silke Alt, DZIF, Braunschweig	Initiatives of the German Center for Infection Research to reduce the prevalence and impact of AMR
04.40 PM – 05.00 PM	Mr. Anmol Aggarwal, Venus Medical Research Centre, New Delhi	Emerging antibiotic market in the Indian subcontinent
05.00 PM – 05.20 PM	Dr. Lesley Ogilvie, Global AMR R&D Hub, Berlin	Accelerating antimicrobial development and access
05.20 PM – 06.00 PM	PANEL DISCUSSION AND SUMMARY BY MODERATORS	
06.30 PM ONWARDS	DINNER (Harnack Haus)	

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MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

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Day 2

DAY 2 – MAY 17, 2022		
THEME: INNOVATIVE DIAGNOSTIC SOLUTIONS		
Moderators: Dr. Frank Bier and Dr. Valakunja Nagaraja		
09.30 AM – 09.50 AM	Dr. Till Bachmann, University of Edinburgh, Edinburgh	AMR, One Health and Diagnostics
09.50 AM – 10.10 AM	Prof. Frank Bier, Universität Potsdam & DiagnosticNet, Berlin-Brandenburg	Lateral Flow Assays for Nucleic Acid Detection – Useful Tools for AMR Detection and Surveillance?
10.10 AM – 10.30 AM	Dr. Dhananjaya Dendukuri, Achira Labs, Bengaluru	A microfluidics-based platform for multiplexed molecular diagnostics relevant to AMR testing
10.30 AM – 10.50 AM	Dr. Jörg Nestler, BiFlow Systems GmbH, Chemnitz	Towards point-of-need identification of bacterial species and their antibiotic resistance profiles
10.50 AM – 11.10 AM	Ms. Saloni Agarwal, Universität Potsdam, Potsdam	Loop mediated isothermal Amplification and Lateral Flow Assay based nucleic acid detection biosensor platform for POCT use
11.10 AM – 11.40 AM	COFFEE BREAK AND DISCUSSION	
THEME: OMICS OF PATHOGEN DETECTION AND FUNCTION		
Moderators: Dr. Dennis Nurjadi and Dr. Vinay Nandicoori		
11.40 AM – 12.00 NOON	Dr. Valakunja Nagaraja, Indian Institute of Science, Bengaluru	Targeting topoisomerases and topology modulators to counter drug resistant M. tuberculosis
12.00 NOON – 12.20 PM	Dr. Vinay Nandicoori, CSIR-Centre for Cellular and Molecular Biology, Hyderabad	Evolution of drug resistance in Mycobacterium tuberculosis
12.20 PM – 12.40 PM	Dr. Thokur Sreepathy Murali, MAHE, Manipal	Antibiotic resistance in Diabetic Foot Ulcer infections – Challenges and opportunities
12.40 PM – 02.00 PM	LUNCH AND DISCUSSION	
THEME: OMICS OF PATHOGEN DETECTION AND FUNCTION		
Moderators: Dr. Dennis Nurjadi and Dr. Vinay Nandicoori		
02.00 PM – 02.20 PM	Dr. Kapaettu Satyamoorthy, MAHE, Manipal	Why we need a paradigm shift in molecular diagnostic approaches to overcome AMR?
02.20 PM – 02.40 PM	Dr. Dennis Nurjadi, Universität zu Lübeck, Lübeck	Genome-based prediction of antimicrobial resistance
02.40 PM – 03.00 PM	Dr. Geetha Kumar, Amrita Vishwa Vidyapeetham, Cochin	Disarm and Conquer: Anti-Quorum Sensing Agents as Alternative Strategies to Combat AMR
03.00 PM – 03.20 PM	Dr. Valakunja Nagaraja, Indian Institute of Science, Bengaluru	Genomic evaluation of antimicrobial resistance in emerging and ESKAPE pathogens
03.40 PM – 04.00 PM	COFFEE BREAK	
PANEL DISCUSSION AND SUMMARY BY MODERATORS		
04.00 PM – 04.30 PM	SUMMARY, FUTURE DIRECTIONS AND CONCLUDING REMARKS	