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# Scientific Program

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**April 8-10, 2025**  
**Munich, Germany**



**Organizer:**  
Bundeswehr Institute of Microbiology



## Program at a glance

### Monday, April 7, 2025

- **Early Registration** 15:00 – 18:00
- **Ice Breaker** 18:00 – 22:00

### Tuesday, April 8, 2025

- **Registration** 08:30 – 09:00
- **Session A** Opening Ceremony
- **Coffee Break** 10:30 – 11:00
- **Session B** Searching for Achilles' Heel - Analysis of Host-Pathogen Interaction
- **Session C** Responding to Threats: Biosafety and Deployable Labs
- **Lunch Break** 12:30 – 13:30
- **Session D** Bacteriophages
- **Session E** Case reports: Interactive Voting Session
- **Coffee Break** 15:30 – 16:00
- **Session F** Current Trends in Biodefense-related Bacterial Infections
- **Session G** Medical Countermeasures (MCM)
- **Conference Dinner** 18:30 – 22:00

### Wednesday, April 9, 2025

- **Session H** Genomics and AI
- **Session I** One Health: Surveillance and Tools for the Big Picture
- **Coffee Break** 10:30 – 11:00
- **Session J** Synthetic Biology: Boon and Bane for Medical Biodefense
- **Session K** Novel Technologies
- **Lunch Break** 12:30 – 13:30
- **Poster presentations**
- **Coffee Break** 15:30 – 16:00
- **Session N** Tox-Alert: New Insights into Biological Toxins
- **Session O** German Biosecurity Programme

### Thursday, April 10, 2025

- **Session P** Emerging Viruses
- **Session Q** Farewell and Poster Awards

Audimax, 09:00 - 10:30

# A Opening Ceremony

Chair: R. Wölfel (DEU)

AO 01  35min

“Opening and Welcome Notes”

presented by Roman Wölfel (Bundeswehr Institute of Microbiology, Munich, DEU)

AO 02  10min

“Welcome Notes by Federal Foreign Office”

presented by Silke Bellmann (Federal Foreign Office, Division for Biological and Chemical Weapons Disarmament, G7 Global Partnership, German Biosecurity Programme, Berlin, DEU)

AO 03  45min

“Keynote Lecture: 50 years of the Biological Weapons Convention”

presented by Daniel Feakes (BWC Implementation Support Unit, UNODA, Geneva, CHE)

Audimax, 11:00 - 12:30

# B Searching for Achilles' Heel: Analysis of Host-Pathogen Interaction

Chairs: H. von Buttlar (DEU) and P. Špidlová (CZE)

BO 01  30min

“Strategies of *Francisella tularensis*: Intracellular Survival, Immune Evasion, and Virulence Determinants”

presented by Petra Špidlová (University of Defence, Military Faculty of Medicine, Hradec Králové, CZE)

BO 02  15min

“Autologous Immune Microphysiological Systems for Infectious Diseases”

presented by Ilka Maschmeyer (TissUse, Berlin, DEU)

BO 03  15min

“From Organoids to Answers: Shedding Light on Viral Tropism with Single-Cell Precision”

presented by Susann Kummer (Robert Koch Institute, Centre for Biological Threats and Special Pathogens (ZBS), Berlin, DEU)

BO 04  15min

“Phagocyte Chemiluminescence Fingerprints to Triage between Infectious Phyla at the ER”

presented by Robert S. Marks (Ben Gurion University of the Negev, Biotechnology Engineering, Beersheba, ISR)

BO 05  15min

“The *Bacillus anthracis* spore sugar anthrose impacts vegetative cell virulence factors through modulation of iron acquisition”

presented by Michael H. Norris (University of Hawaii at Mnoa, Pathogen Analysis and Translational Health Group, School of Life Sciences, Honolulu, USA)

Garden hall, 11:00 - 12:30

## **C** Responding to Threats: Biosafety and Deployable Labs

*Chairs: K. Stoecker (DEU) and M. O'Shea (GBR)*

**CO 01**  15min

**“Modeling the Impact of an Intentional Anthrax Release: A Comparative Study Based on the 1979 Sverdlovsk Incident and a Hypothetical Scenario in Paris”**

presented by Tristan Learoyd (Emergent, Global Medical Affairs, London, GBR)

**CO 02**  15min

**“Stability and disinfection of risk group 4 pathogens: improving biosafety measures for laboratories and for patient management”**

presented by Susann Kummer (Robert Koch Institute, Centre for Biological Threats and Special Pathogens (ZBS), Berlin, DEU)

**CO 03**  15min

**“Establishing a multi-agency mobile laboratory capacity in Sweden”**

presented by Ryan Terrey and Martin Forslund (Public Health Agency of Sweden, Department of Microbiology, Stockholm, SWE)

**CO 04**  15min

**“High-throughput laboratory testing under field conditions during the NATO exercise Clean Care 2024 in Hungary”**

presented by Tanja Hoffmann (Bundeswehr Institute of Microbiology, Munich, DEU)

**CO 05**  15min

**“Enhancing biosurveillance capabilities by implementing applied research developments in a custom-designed, deployable laboratory”**

presented by Gilles Fastré (Belgian Defence Laboratories, Biological laboratory (DLD-BIO), Brussels, BEL)

**CO 06**  15min

**“Suit-Case Mobile Laboratory for International Response to Outbreak and Epidemics”**

presented by Guillaïn Mikaty (Institut Pasteur, Global Health, Paris, FRA)

Audimax, 13:30 - 15:30

## **D** Bacteriophages

*Chairs: G. Grass (DEU) and P. Braun (DEU)*

**DO 01**  20min

**“Transient Expanding Phage Host Range by Co-Expressing Tail fibers in a Cell-Free System”**

presented by Kilian Vogele (Invitris GmbH, Planegg, DEU)

**DO 02**  20min

**“Rapid Detection and Real-Time Antibiotic Susceptibility Testing of *Klebsiella pneumoniae* and *Yersinia pestis* Using Recombinant Reporter Phages”**

presented by Simone Braun (Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP), Immunology, Infection and Pandemic Research (IIP), Penzberg, DEU; Institute of Infectious Diseases and Tropical Medicine, University Hospital Ludwig-Maximilian University Munich, Munich, DEU)

**DO 03**  15min

**“Enhanced antibacterial effect of bioactive glass S53P4 due to bacteriophage on *Staphylococcus aureus* in vitro”**

presented by Nina C. Lindfors (Helsinki University Hospital, Musculoskeletal and Plastic Surgery, Helsinki, FIN)

**DO 04**  20min

**“Phage receptor binding proteins - An alternative to antibodies for detecting bacterial pathogens”**

presented by Moritz Ertelt (Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP), Immunology, Infection and Pandemic Research (IIP), Penzberg, DEU)

**DO 05**  20min

**“Rapid and specific detection of pathogenic bacteria using recombinant receptor binding proteins of bacteriophages”**

presented by Leonie Reetz (Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP), Immunology, Infection and Pandemic Research (IIP), Penzberg, DEU)

**DO 06**  20min

**“Utilizing phage receptor binding proteins for *Klebsiella* K-typing and novel phageograms”**

presented by Zuzanna Drulis-Kawa (University of Wrocław, Department of Pathogen Biology and Immunology, Wrocław, POL)

Garden hall, 13:30 - 15:30

## **E** Case Reports: Interactive Voting Session

Chairs: S. Zange (DEU) and N. Wantia (DEU)

**EO 01**  20min

**“A family affair - A curious case from northern Sweden and the multi-sectorial effort to solve it”**

presented by Ryan Terrey (Public Health Agency of Sweden, Department of Microbiology, Stockholm, SWE)

**EO 02**  25min

**“A gardener from Nymphenburg Palace”**

presented by Christopher Breyer (Lungenklinik Gauting, Pneumology, Gauting, DEU)

**EO 03**  20min

**“Fever of unknown origin and impaired cognition after a trip to Thailand”**

presented by Michael Seilmaier (Ludwig Maximilians University Munich (LMU), Munich Clinic Schwabing, Munich, DEU)

**EO 04**  20min

“Is it erysipelas or bioterrorism?”

presented by Stefan Borgmann (Hospital Ingolstadt, Department of Infectious Diseases and Infection Control, Ingolstadt, DEU)

**EO 05**  20min

“Evaluation of Large Language Models (LLMs) for diagnostics of highly pathogenic agents”

presented by Daniel Lang (Bundeswehr Institute of Microbiology, Munich, DEU)

Audimax, 16:00 - 18:00

# F Current Trends in Biodefense-related Bacterial Infections

Chairs: E. Mantel (DEU) and H. Scholz (DEU)

**FO 01**  15min

“Biofilm formation and persistence of various anthrax-causing bacteria on leaves”

presented by Leonard Borst (Robert Koch Institute, Highly Pathogenic Microorganisms, Berlin, DEU)

**FO 03**  15min

“Genomic features of environmental *Vibrio cholerae* from Morocco: virulence, antimicrobial resistance and genetic diversity”

presented by Germán A. Kopprio (Robert Koch Institute, Highly Pathogenic Microorganisms (ZBS 2), Berlin, DEU)

**FO 04**  15min

“Detection and isolation of *Francisella tularensis* using recombinant reporter fusion proteins”

presented by Jan Klaas Janßen (Bundeswehr Institute of Microbiology, Munich, DEU)

**FO 05**  15min

“Country-wide assessment of pathogen presence in ticks collected in Germany between 2021-2024, with a focus on *Francisella*”

presented by Kristin Köppen (Robert Koch Institute, Highly Pathogenic Microorganisms, Berlin, DEU)

**FO 06**  15min

“Assessment of the genetic diversity and relatedness of Turkish animal and human *Brucella* isolates using NGS technology”

presented by Gamal Wareth (Friedrich-Loeffler-Institut, Institute of Bacterial Infections and Zoonoses, Jena, DEU)

**FO 07**  15min

“Proteomics-based identification of immunodominant *Brucella canis* proteins as candidates for serodiagnosis and vaccine development”

presented by Dirk Hofreuter (German Federal Institute for Risk Assessment, Biological Safety, Berlin, DEU)

**FO 08**  15min

“*Brucella* spp: A New Marine Health Security Concern?”

presented by Mónica Nunes (iXLab - Iniciativa para a Resiliência Biológica Nacional, Faculdade de Ciências, Universidade de Lisboa, cE3c-Centre for Ecology, Evolution and Environmental Changes, CHANGE-Global Change and Sustainability Institute, Lisbon, PRT)

Garden hall, 16:00 - 18:00

# G Medical Countermeasures (MCM)

Chairs: J. J. Bugert (DEU) and B. E. Swierczewski (USA)

GO 01  17min

“Novel pipeline for the development of Monoclonal Antibodies for Ricin Detection”  
presented by Zacharie Paquet (Belgian Defense, DLD-Bio, Brussels, BEL)

GO 03  17min

“Quinsair, an inhaled formulation of levofloxacin, protects mice against lethal inhalational tularemia”  
presented by Izzy Norville (DSTL, CBR Division, Salisbury, GBR)

GO 04  17min

“Manufacturing of RNA-loaded dry powders for the treatment of respiratory infections”  
presented by Benjamin Winkeljann (RNhale GmbH, Munich, DEU)

GO 05  17min

“Smallpox Preparedness: Integrating Tecovirimat into Response Planning”  
presented by Douglas W. Grosenbach (SIGA Technologies, Inc, Senior Director of Poxvirus Research, Corvallis, OR, USA)

GO 06  17min

“Establishing Multicellular Blood-Brain Barrier Infection Models for Antiviral Drug Discovery”  
presented by Marisol Zuniga (Helmholtz Munich, Virology, Munich, DEU)

GO 07  17min

“Chikungunya virus and armed forces: relevance and vaccine prospects”  
presented by Jonas Schmidt-Chanasit (Bernhard Nocht Institute for Tropical Medicine, Department for Arbovirology and Entomology, Hamburg, DEU)

Audimax, 09:00 - 10:30

# H Genomics and AI

Chairs: M. Walter (DEU) and A. Dilthey (DEU)

HO 01  23min

“Metagenomic Diagnostics with Next-Generation Sequencing and cfCOP”  
presented by Alexander T. Dilthey (Heinrich Heine University Düsseldorf, Institute of Medical Microbiology and Hospital Hygiene, Düsseldorf, DEU)

HO 02  18min

“Mining public metagenomes reveals novel *Francisella* reservoirs and enhances bio-surveillance”  
presented by Andreas Sjödin (Swedish Defence Research Agency, Biological Agents, Umeå, SWE)



**HO 03**  15min

**“Enhanced Detection of Biological Warfare Agents Using MALDI-ToF Mass Spectrometry Integrated with Artificial Intelligence”**

presented by Mostafa Bentahir (Belgian Defence Laboratories, DLD, Brussels, BEL)

**HO 04**  15min

**“Assessing Large Language Models in the Context of Bioterrorism: An Epidemiological Perspective with Experimental Insights”**

presented by Andrzej Jarynowski (Freie Universität Berlin, Institute for Veterinary Epidemiology and Biostatistics, Berlin, DEU)

**HO 05**  18min

**“AI-redesigned receptor binding proteins can sensitively and specifically detect *Yersinia pestis*”**

presented by Daniel Lang (Bundeswehr Institute of Microbiology, Munich, DEU)

Garden hall, 09:00 - 10:30

# I

## **One Health: Surveillance and Tools for the Big Picture**

*Chairs: S. Sauer (DEU) and J. P. Teifke (DEU)*

**IO 01**  15min

**“Risk analysis of the targeted release of bioterrorism-relevant germs in drinking water systems in the presence of biofilms (GETRIP)”**

presented by Beatrice Marsollek (Robert Koch Institute, Highly Pathogenic Microorganisms (ZBS 2), Berlin, DEU)

**IO 02**  15min

**“Are you really a *V. cholerae*: How to handle *V. cholerae*-like species in food regarding their (potential) pathogenic potential?”**

presented by Jens-André Hammerl (German Federal Institute for Risk Assessment, Biological Safety, Berlin, DEU)

**IO 03**  15min

**“Wastewater Based Epidemiology (WBE) - Establishment in the German Armed Forces and Implementation of EU Directives”**

presented by Dimitrios Frangoulidis (Bundeswehr Medical Academy, MI2, Munich, DEU)

**IO 04**  20min

**“Building up One Health Exploratories in the African tropics and in Germany”**

presented by Fee Zimmermann (Helmholtz Institute for One Health, One Health Surveillance Core Unit, Greifswald, DEU)

**IO 05**  20min

**“The Multinational (MN) Force Health Protection (FHP) Nexus - visualize knowledge management for NATO Allies’ Force Health Protection”**

presented by Katalyn Roßmann (Bundeswehr Medical Academy, MI2, Munich, DEU)

Audimax, 11:00 - 12:30

# J Synthetic Biology: Boon and Bane for Medical Biodefense

This session is moderated by **Petra Dickmann** (Dickmann DRC, Jena, DEU).

## Round Table Panelists:

- **Tone Johansen**  
Norwegian Institute of Public Health, Infection Control and Preparedness, Oslo, NOR
- **Patrick Stadler**  
Pour Demain, Managing Director, Bern, CHE
- **Silke Bellmann**  
Federal Foreign Office, Biological and Chemical Weapons Disarmament, Berlin, DEU
- **Jasmin Riedl**  
Bundeswehr University Munich, Munich, DEU

Garden hall, 11:00 - 12:30

# K Novel Technologies

*Chairs: E. Raubuch (DEU) and H. Brangsch (DEU)*

**KO 01**  15min

**“Multi-Organ-Chip Platform: Modeling ADME Processes and Organ-Specific Toxicity”**  
presented by Ilka Maschmeyer (TissUse, Berlin, DEU)

**KO 02**  15min

**“Simple and promising: 3D-cell-culture opens a new avenue for the investigation of respiratory viruses”**  
presented by Lara S. Unger (Bundeswehr Institute of Microbiology, Munich, DEU)

**KO 03**  15min

**“Modern tools for the rapid detection of microorganism and their resistance mechanisms in patients samples”**  
presented by Agnieszka Woźniak-Kosek (Military Institute of Medicine- Nacional Research of Institute, Department of Laboratory Diagnostics, Warsaw, POL)

**KO 04**  15min

**“FDX: A Cutting-Edge Platform for Fast and On-Site DNA and RNA Pathogen Detection”**  
presented by Mónica Nunes (iXLab - Iniciativa para a Resiliência Biológica Nacional, Faculdade de Ciências, Universidade de Lisboa, cE3c-Centre for Ecology, Evolution and Environmental Changes, CHANGE-Global Change and Sustainability Institute, Lisbon, PRT)

**KO 05**  15min

“Rapid and Specific Detection of Plague Pathogen with Duplex LAMP combined with nucleic acid lateral flow sensor”

presented by Mostafa Bentahir (Belgian Defence Laboratories, DLD, Brussels, BEL)

**KO 06**  15min

“Fluorescence *in situ* hybridization for in-field diagnosis of *Mycobacterium tuberculosis*”

presented by Kim Silberreis (Bundeswehr Institute of Microbiology, Munich, DEU)

Audimax, 16:00 - 18:00

# **N** **Tox-Alert: New Insights into Biological Toxins**

Chairs: M. Knüpfer (DEU) and B. Dorner (DEU)

**NO 01**  25min

“An outbreak of foodborne botulism caused by commercially canned mushrooms from Russia”

presented by Brigitte G. Dorner (Robert Koch Institute, German National Consultant Laboratory for Neurotoxin-producing Clostridia (Botulism, Tetanus), Berlin, DEU)

**NO 02**  15min

“A cross-method comparison of potential replacement methods for the mouse bioassay for botulism diagnostics”

presented by Sylvia Worbs (Robert Koch Institute, Biological Toxins (ZBS 3), Berlin, DEU)

**NO 03**  15min

“Developing and establishing an experimental toolkit to assess the activity of toxins”

presented by Charlotte Whitmore (DSTL, CBR Division, Salisbury, GBR)

**NO 04**  15min

“Molecular forensics in biothreat scenarios - Chemical profiling of toxic plant materials containing ricin”

presented by Björn Ahrens (Federal Criminal Police Office, Forensic Science Institute, Wiesbaden, DEU)

**NO 05**  15min

“DTox-Net: A German Laboratory Network to Strengthen Readiness for Biotxin-Related Incidents”

presented by Maren Krüger (Robert Koch Institute, Biological Toxins (ZBS 3), Berlin, DEU)

**NO 06**  15min

“Ricidote<sup>®</sup>: A New Therapeutic for Ricin Intoxication: Efficacy and Safety Studies”

presented by Véronique Juillard (Fabentech, Lyon, FRA)

**NO 07**  15min

“X-BAT: Research on and generation of a decavalent equine antitoxin counter-acting deliberate botulinum neurotoxin attacks”

presented by Andreas Rummel (Hannover Medical School, Toxicology, Hanover, DEU)

# O German Biosecurity Programme

*Chairs: G. Wilke (DEU) and S. Bellmann (DEU)*

**OO 01**  24min

**“Re-aligning the German Biosecurity Programme”**

presented by Silke Bellmann (Federal Foreign Office, Division for Biological and Chemical Weapons Disarmament, G7 Global Partnership, German Biosecurity Programme, Berlin, DEU)

**OO 02**  12min

**“German Biosecurity Programme - Biosecurity Cooperation against biological threats in the Sahel Region”**

presented by Gordon Wilke (Bundeswehr Institute of Microbiology, Munich, DEU)

**OO 03**  12min

**“The German Biosecurity Program at the Veterinary University of Sidi Thabet in Tunis: Diagnostic Tools and Reduction of Biological Proliferation Risks During Handling Highly Pathogenic Agents”**

presented by Felicitas Bergmann (Friedrich-Loeffler-Institut, Institute of Novel and Emerging Infectious Diseases, Riems, Greifswald, DEU)

**OO 04**  12min

**“The GIZ contribution to the German Biosecurity Programme: Achievements, impact factors and challenges”**

presented by Katharina Niederhut (Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, G220, Berlin, DEU)

**OO 05**  12min

**“German Biosecurity Programme in Georgia: Significant Support in Strengthening of the National Capabilities”**

presented by Paata Imnadze (National Center for Disease Control and Public Health, Richard G. Lugar Center for Public Health Research, Tbilisi, GEO)

**OO 06**  12min

**“From the beginning to the end: FLI activities in Mauritania within the framework of the German Biosecurity Program between 2013-25 at a glance”**

presented by Ansgar Schulz (FLI, INNT, Riems, Greifswald, DEU)

**OO 07**  12min

**“Strengthening cholera preparedness and response in high-risk settings: The case of Ukraine”**

presented by Olha Prykhodko (State Institution Public Health Center of the Ministry of Health of Ukraine, Kyiv, UKR)

**OO 08**  12min

**“Biosafety Associations for Central Asia and Caucasus – Building Regional Bridges”**

presented by Lela Bakanidze (Biosafety Association for Central Asia and Caucasus, Tbilisi, GEO)

**OO 09**  12min

**“The hemorrhagic fever of Crimean Congo: what threat to North African countries?”**

presented by Médiha Khamassi Khbou (University Manouba, Laboratory of Parasitology, Sidi Thabet, TUN)

# P Emerging Viruses

*Chairs: G. Dobler (DEU) and P. Groll (DEU)*

**PO 01**  20min

**“Analysis of Influenza and ARI Morbidity in Post-Pandemic Seasons 2021/22 and 2022/23 in Tashkent, Uzbekistan”**

presented by Mirbobir B. Mirkhoshimov (Research institute of virology, Infectious diseases, Tashkent, UZB)

**PO 02**  20min

**“Re-emergence of arbovirosis in Burkina Faso: Identification of dengue and chikungunya viruses in samples received from sentinel sites in 2023”**

presented by Alidou Zango (Centre MURAZ, Laboratoire national de Référence des Fièvres Hémorragiques Virales, Bobo-Dioulasso, BFA)

**PO 03**  20min

**“Effectiveness of European TBE vaccines against Baltic TBE virus strains”**

presented by Gerhard Dobler (Bundeswehr Institute of Microbiology, Virology and Rickettsiology, Munich, DEU)

**PO 04**  20min

**“Surveillance of emerging viral and bacterial pathogens in wild nature in Ukraine - key component of European early warning system”**

presented by Denys Muzyka (National Scientific Center Institute of Experimental and Clinical Veterinary Medicine (IECVM), Avian Disease and Molecular diagnostics, Kharkiv, UKR)

**PO 05**  20min

**“Seroprevalence of flavivirus and Crimean-Congo hemorrhagic fever virus in dromedaries from Algeria”**

presented by Samia Bedjaoui (RITMES (Aix Marseille Univ, AP-HM, SSA), Marseille, France - IHU Méditerranée Infection, Marseille, FRA)

**PO 06**  20min

**“Flavivirus investigation in the Republic of Kazakhstan”**

presented by Anna Shin (Masgut Aikimbayev’s National Scientific Center for Especially Dangerous Infections, Virology, Almaty, KAZ)



# Poster presentations

## BP: Searching for Achilles' Heel - Analysis of Host-Pathogen Interaction

### BP 06

“Interferon-induced immune signatures are associated with suppression of HEV infection in porcine cell culture models”

presented by Sarah Schlienkamp (Ruhr University Bochum, Molecular and Medical Virology, Bochum, DEU)

### BP 07

“Macrophage and *Francisella tularensis* post-infection transcriptome by dual RNA sequencing”

presented by Mathias C. Walter (Bundeswehr Institute of Microbiology, Munich, DEU)

### BP 08

“The Role of Intestinal Parasitoses and Pathogenic Protozoa in Patients with Bronchial Asthma”

presented by Mukambar S. Shailamova (Republican Specialized Scientific and Practical Medical Center for Epidemiology, Microbiology, Infectious and Parasitic Diseases, Immunology of deep mycoses and parasitoses, Tashkent, UZB)

### BP 09

“From the common cold to cell culture: growing respiratory viruses in spheroid culture”

presented by Hanna Scherm (Bundeswehr Institute of Microbiology, Munich, DEU)

### BP 10

“Characterization of 3D lung cell models for improved cultivation of respiratory viruses”

presented by Tobias Pfeil (Bundeswehr Institute of Microbiology, Munich, DEU)

### BP 11

“*In vitro* infection models for biowarfare agents: Important tools for basic and applied sciences”

presented by Marisa Music (Bundeswehr Institute of Microbiology, KB1, Munich, DEU)

## CP: Responding to Threats: Biosafety and Deployable Labs

### CP 07

“Italian Air Force personnel deployed in areas at risk of Dengue infection: a descriptive observational study”

presented by Carmen C. Nigro (Institute Of Aerospace Medicine Rome Italian Air Force, Rome, ITA)

### CP 08

“Diagnostic Value of a Rapid Diagnostic Test (TDR) in the Diagnosis of Dengue Fever during an Epidemic in Bamako, Mali”

presented by Abdoul Karim Sangaré (Centre d'Infectiologie Charles Merieux, Bamako, MLI)

**CP 09**

**“Strategic Aeromedical Evacuation of patients affected by highly infectious diseases: the Italian Air Force perspective in the European partnership”**

presented by Alessandro Fiorini (Air Force Health Service, Pratica di Mare Air Base, Pomezia, ITA)

**CP 11**

**“Laboratory biorisk management: lessons to be learned from the experience of lab work in war conditions in Ukraine”**

presented by Vlada Pashynska (B. Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine, Molecular Biophysics Department, Kharkiv, UKR)

**CP 12**

**“System for testing Personal Protective Equipment of the respiratory tract to assess the effectiveness of protection thereof from biological agents”**

presented by Andrea Marini (Sole Director of Ares' company, AREAS, Bucine, ITA)

**CP 13**

**“Joint EMLab training of the Bernhard Nocht Institute and the Robert Koch Institute: harmonization of competencies in biosafety and biosecurity”**

presented by Jasmin Scharnberg and Beate Becker-Ziaja (Bernhard Nocht Institute for Tropical Medicine, EMLab, Hamburg, DEU)

**CP 14**

**“Catch me if you can: Used lateral flow immunochromatographic tests as samples for molecular analyses”**

presented by Teresa Hausjell (Bundeswehr Institute of Microbiology, Munich, DEU)

**CP 15**

**“The management of patients affected by highly transmissible infectious diseases: Organization in Sicily bridge over the Mediterranean sea”**

presented by Francesco Bongiorno (AIMAS Italian Association of Aeronautical and Space Medicine, Board of Directors, Palermo, ITA)

**CP 16**

**“The Hidden Microbial World of Griffon Vultures: Passive Bioreconnaissance for Ecosystem Health and Pathogen Risk Assessment”**

presented by Mónica Nunes (iXLab - Iniciativa para a Resiliência Biológica Nacional, Faculdade de Ciências, Universidade de Lisboa, cE3c-Centre for Ecology, Evolution and Environmental Changes, CHANGE-Global Change and Sustainability Institute, FCUL, Lisbon, PRT)

**CP 17**

**“Effect of Pulse UV sterilization on *Bacillus anthracis* spores”**

presented by Nataliia G. Pinchuk (State Scientific Control Institute of Biotechnology and Strains of Microorganisms (SSCIBSM), Bacteriology, Kyiv, UKR)

**CP 18**

**“The Brazilian Army’s experience in using a mobile laboratory to identify biological threats by nanopore sequencing”**

presented by Tatiana L. S. Nogueira (Army Institute of Biology, Biodefense Study Center, Rio de Janeiro, BRA)

**CP 19**

**“Development of Detection and Verification Measures Usable for the Biological Weapons Convention”**

presented by Samantha Klein (University of Hamburg, Microbiology and Biotechnology, Hamburg, DEU)

### CP 21

**“Strengthening disaster response preparedness: Evaluating Infection Prevention and Control (IPC) Measures and Interoperability of Emergency Medical Teams (EMT), Rapid Response Mobile Laboratories (RRML) and IPC Teams in a Simulated Earthquake with situation-related Cholera Outbreak Scenario”**

presented by Veronica Briesemeister (Robert Koch Institute, Public Health Laboratory Support (ZIG 4), Berlin, DEU)

## **DP: Bacteriophages**

### DP 07

**“Phage-Antibiotic-Synergy in *Galleria mellonella* model”**

presented by Jana Stender (Bundeswehr Institute of Microbiology, Virology, Munich, DEU)

### DP 08

**“Capsule specific depolymerases of *Klebsiella pneumoniae* phages in *Galleria mellonella* model”**

presented by Thomas Krause (Bundeswehr Institute of Microbiology, Virology, Munich, DEU)

### DP 09

**“Comparison of the therapeutic potential of standard phage preparations and *in vitro* produced phages in *Galleria mellonella* infected with MRGN *Klebsiella pneumoniae*”**

presented by Lea Anders (Bundeswehr Institute of Microbiology, Virology, Munich, DEU)

### DP 10

**“The biodiversity of the DSMZ phage bank”**

presented by Filipa M. Martins (Leibniz Institute - DSMZ, BUG, Braunschweig, DEU)

### DP 11

**“Bacteriophages targeting *Klebsiella pneumoniae*”**

presented by Régis Tournébeze (INSERM and Sorbonne Université, Centre d’Immunologie et des Maladies Infectieuses, Paris, FRA)

### DP 12

**“Therapeutic bacteriophages against MRGN *Klebsiella pneumoniae* Optimization of an *in vitro* production protocol for bacteriophages of different virus families”**

presented by Denise Sander (Bundeswehr Institute of Microbiology, Virology, Munich, DEU)

### DP 13

**“Phage resistance and adaptive evolution in *Klebsiella pneumoniae*: unraveling genetic mutations and virulence dynamics”**

presented by Grazyna Majkowska-Skropek (Faculty of Biological Sciences, Department of Pathogen Biology and Immunology, University of Wrocław, Wrocław, POL)

### DP 14

**“Dreams and reality: Phage-based tackling of multidrug-resistant *Staphylococcus aureus* CC398 *in-vitro* and *ex-vivo*”**

presented by Jens-André Hammerl (German Federal Institute for Risk Assessment, Biological Safety, Berlin, DEU)

### DP 15

**“Phages from imported food are suitable for tackling the clinically-important *K. pneumoniae* high-risk clones ST23 and ST147”**

presented by Jens-André Hammerl (German Federal Institute for Risk Assessment, Biological Safety, Berlin, DEU)



**DP 16**

**“Characterization of the receptor-recognition interface of  $\phi$ A1122 bacteriophage-derived Gp17 required for attachment to *Yersinia pestis* cells”**

presented by Tamara Haanraads (Bundeswehr Institute of Microbiology, Munich, DEU)

**DP 17**

**“European Defense Fund - Resilience SGA 2023 ( R ) SP4 PHAGE - Recruiting Phage to the Army”**

presented by Joachim J. Bugert (Bundeswehr Institute of Microbiology, SP4 and WP9 lead, Munich, DEU), Saija Kiljunen (University of Helsinki, WP10 lead, Helsinki, FIN), and Zuzanna Drulis-Kawa (University of Wrocław, WP11 lead, Wrocław, POL)

**DP 18**

**“Novel diagnostic and therapeutic methods to address critical CBRN and AMR challenges”**

presented by Timo Späth (Bundeswehr Institute of Microbiology, Munich, DEU)

**DP 19**

**“Bacterial pathogen diagnostics revisited: Phage receptor binding proteins as versatile detection tools”**

presented by Peter Braun (Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP), Immunology, Infection and Pandemic Research (IIP), Penzberg, DEU; Institute of Infectious Diseases and Tropical Medicine, University Hospital Ludwig-Maximilian University Munich, Munich, DEU)

**DP 20**

**“Engineered reporter phages enable rapid detection and simultaneous antibiotic susceptibility testing of bacterial pathogens”**

presented by Sebastian Kachel (Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP), Immunology, Infection and Pandemic Research (IIP), Penzberg, DEU)

**DP 21**

**“A multi-step production, purification and utilization of *Y. pestis*-specific phages for efficient phage-antibiotic combined treatment of pneumonic plague disease”**

presented by Arik Makovitzki (Israel Institute for Biological Research, Department of Biotechnology, Ness-Ziona, ISR)

## **EP: Case reports**

**EP 06**

**“Clinical and epidemiological manifestations of imported cholera cases to Almaty city (Kazakhstan) from 2017 to 2024 - a retrospective data”**

presented by Nur Tukhanova (S.Asfendiyarov Kazakh National Medical University, Infectious and Tropical Disease, Almaty, KAZ)

**EP 07**

**“A rare complication in humans of a rare disease in Germany: A case of bilateral *Brucella* tubo-ovarian abscesses”**

presented by Sabine Zange (Bundeswehr Institute of Microbiology, Munich, DEU)

**EP 08**

**“Case report: Anthrax in 2024 Almaty, Kazakhstan”**

presented by Nur Tukhanova (Asfendiyarov Kazakh National Medical University, Infectious and Tropical Disease, Almaty, KAZ)

## **FP: Current Trends in Biodefense-related Bacterial Infections**

### **FP 08**

#### **“Canine Brucellosis outbreak in a dog breeding kennel in Ukraine”**

presented by Vitaliy Bolotin (State Scientific and Control Institute of Biotechnology and Strains of Microorganisms, Deputy Director, Kyiv, UKR)

### **FP 10**

#### **“Seroprevalence of *Coxiella burnetii* in dromedaries from Algeria”**

presented by Samia Bedjaoui (RITMES (Aix Marseille Univ, AP-HM, SSA), Marseille, France - IHU Méditerranée Infection, Marseille, FRA)

### **FP 11**

#### **“Genomic epidemiology of carbapenem resistant *Acinetobacter baumannii* (CRAB) causing bloodstream infections in a Tunisian hospital (2021-2024)”**

presented by Amel Rehaïem (Charles Nicolle Hospital Laboratory of Microbiology, University of Tunis El Manar Faculty of Medicine LR99ES09 Research Laboratory Antimicrobial resistance, Tunis, TUN)

### **FP 12**

#### **“Diagnostic challenges and genetic insights into tuberculosis lymphadenitis in Tunisia”**

presented by Asma Ferjani (Charles Nicolle Hospital, Microbiology, Tunis, TUN)

### **FP 13**

#### **“Nail infections caused by *Pseudomonas aeruginosa*”**

presented by Agnieszka Woźniak-Kosek (Military Institute of Medicine, Department of Laboratory Diagnostics, Warsaw, POL)

### **FP 14**

#### **“Monitoring of Active Plague Foci in 2020-2024, country of Georgia”**

presented by Vakhtang Martashvili (National Center for Disease Control and Public Health, Tbilisi, GEO)

### **FP 15**

#### **“Study of the Prevalence of *Borrelia miyamotoi* in the Almaty and Zhetysu Regions of Kazakhstan”**

presented by Yuriy Skiba (Almaty Branch of the National Center for Biotechnology, Almaty, KAZ)

### **FP 16**

#### **“Occurrence of anthrax pathogen in animal burials of Eastern and Southern Ukraine”**

presented by Oleksandr Bilovan (National Scientific Center Institute of Experimental and Clinical Veterinary Medicine, Kharkiv, UKR)

### **FP 17**

#### **“New *Vibrio cholerae* sequences from Eastern and Southern Africa alter our understanding of regional cholera transmission”**

presented by Amanda K. Debes (Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA)

## **GP: Medical Countermeasures (MCM)**

### **GP 08**

#### **“Detection and Characterization of Carbapenemase-Producing *Escherichia coli* and *Klebsiella pneumoniae* from Hospital Effluents of Ouagadougou, Burkina Faso”**

presented by René Dembélé (Laboratory of Molecular Biology, Epidemiology and Surveillance of Foodborne Bacteria and Viruses, Ouagadougou, BFA)

**GP 12**

**“The development of an automated high throughput platform to rapidly identify antiviral compounds against high consequence viruses”**

presented by Rachel Ireland (DSTL, CBR Division, Salisbury, GBR)

**GP 13**

**“Ongoing Open-label, Multicenter Immunogenicity and Safety Study of MVA-BN<sup>®</sup> Vaccine in Children From 2 Years to Less Than 12 Years of Age Compared to Adults for the Prevention of Smallpox, Mpox, and Related Orthopoxvirus Infections”**

presented by Ralph Torgler (Global Medical Affairs, Bavarian Nordic Berna GmbH, Thörishaus, CHE)

**GP 14**

**“Emergence of methicillin-resistant *Staphylococcus aureus* strains with an unusual susceptibility antibiotic pattern in Tunisia”**

presented by Sana Ferjani (Charles Nicolle Hospital, Microbiology, Tunis, TUN)

**GP 15**

**“Sorpton and antimicrobial properties of hydrogel bandage”**

presented by Vasyl Vlizlo (Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Lviv, UKR)

**GP 16**

**“Characterization of Amoxicillin Complexed with Polyphosphate Ester for Reduced Toxicity”**

presented by Vasyl Vlizlo (Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Lviv, UKR)

**GP 17**

**“Thymol: a novel eco-friendly defense against biological threats”**

presented by Elisa Recchia (Defence Institute for Biomedical Sciences, Rome, ITA)

**GP 18**

**“Analysis of antiviral compounds against orthopoxviruses in a spheroid-like multicellular model of the blood-brain-barrier”**

presented by Annika Fröhlich (Bundeswehr Institute of Microbiology, Munich, DEU)

**GP 19**

**“COVID-19 in Kazakhstan: Incidence, Vaccination, and Response Measures”**

presented by Yerbol D. Burashev (Research Institute for Biological Safety Problems, Monitoring of infectious diseases, Gvardeyskiy, KAZ)

**GP 20**

**“*In vitro* efficacy of the novel rifampicin derivative TPR on low-level rifampicin-resistant strains of *Brucella melitensis*”**

presented by Enrico Mantel (Bundeswehr Institute of Microbiology, Munich, DEU)

**GP 22**

**“New Antimicrobial Surfaces based on Silica Mesoporous Nanoparticles Functionalized with Bioactive Compounds”**

presented by Alessandra Amoroso (Defence Institute for Biomedical Sciences, Rome, ITA)

## **HP: Genomics and AI**

### **HP 06**

**“Aerobiome profiling by nanopore sequencing”**

presented by María Victoria Ortega García (Instituto Nacional de Técnica Aeroespacial (INTA), CBRN Defence Systems Department, Campus La Marañosa, San Martín de la Vega, ESP)

### **HP 07**

**“Development of an automated system for the analysis of large-scale patient care records”**

presented by Michael A. Seidel (Bundeswehr Institute of Microbiology, Munich, DEU)

### **HP 08**

**“Newly isolated and archival historical *Bacillus anthracis* strains populate the deeper phylogeny of the A.Br.075(Sterne) clade”**

presented by Gregor Grass (Bundeswehr Institute of Microbiology, Munich, DEU)

### **HP 09**

**“Development of a clinical metagenomics workflow for the diagnosis of wound infections”**

presented by Carl M. Halford (Defence Science and Technology Laboratory, CBR Division, Salisbury, GBR)

### **HP 10**

**“A bioinformatics workflow for enhancing resolution beyond species-level sequence classification”**

presented by Caroline Öhrman (Swedish Defence Research Agency, CBRN, Umeå, SWE)

### **HP 11**

**“The Influence of Transportation Conditions on Horse Fecal Samples for 16S Sequencing”**

presented by Polina Yurko (Institute of experimental and clinical veterinary medicine, Molecular Diagnostics Laboratory, Kharkiv, UKR)

### **HP 12**

**“Proteomic and transcriptomic characterization of a new cell culture model to study viral infections”**

presented by Johanna Wallner (OmicScouts GmbH, Mass Spectrometry and Proteomics, Freising, DEU)

### **HP 13**

**“Pandemics-scale analysis of reticulate phylogenetic relationships between viral pathogens using forest2net”**

presented by Salome Javashvili (National Center for Disease Control and Public Health (NCDC), Department of Virology, Molecular Biology and Genome Research, Lugar Center for Public Health Research, Tbilisi, GEO)

### **HP 14**

**“Collecting Bioresources for Medical Research: Keep your bugs safe!”**

presented by Sabine Gronow (Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures GmbH, Department Bioresources for Bioeconomy and Health Research, Pathogenic Bacteria, Braunschweig, DEU)

### **HP 15**

**“Universality and uniqueness of 16S rRNA: Limits in identification of bacterial species”**

presented by Martin Chmel (Military Health Institute, Department of Epidemiology and Biological Defence, Prague, CZE)

**HP 16**

**“Sustainability for data availability - CoxBase meets Wikibase”**

presented by Dimitrios Frangoulidis (Bundeswehr Medical Academy, MI2, Munich, DEU)

**HP 17**

**“Genome-wide intraspecific diversity in *Echinococcus multilocularis*”**

presented by Pavlo Maksimov (Friedrich-Loeffler-Institut – Federal Research Institute for Animal Health (FLI), Institute of Epidemiology, Riems, Greifswald, DEU)

**IP: One Health: Surveillance and Tools for the Big Picture**

**IP 07**

**“Antibiotic-resistant bacteria in hospital wastewater as an easily accessible source for reconnaissance of the patient spectrum”**

presented by Laura Lohbrunner (Bundeswehrzentral Krankenhaus, Abteilung XXI Mikrobiologie, Koblenz, DEU)

**IP 08**

**“Detection of coronaviruses in insectivores bats in Ukraine”**

presented by Polina Yurko (Institute of Experimental and Clinical Veterinary Medicine, Kharkiv, UKR)

**IP 09**

**“The dog used as sentinel for the circulation of flaviviruses in the south-east of France in 2023”**

presented by Samia Bedjaoui (RITMES (Aix Marseille Univ, AP-HM, SSA), Marseille, France - IHU Méditerranée Infection, Marseille, FRA)

**IP 10**

**“Waterborne Disease Risks in Conflict Zones: Analysis of Hepatitis A Dynamics”**

presented by Tetyana O. Chumachenko (Kharkiv National Medical University, Department of Epidemiology, Kharkiv, UKR)

**IP 11**

**“Surveillance of Antimicrobial Resistance in Domestic Animals as a One Health Approach: The Role of Pigs as Reservoirs of *Acinetobacter baumannii*”**

presented by Eva Cunha (CIISA (Centre for Interdisciplinary Research in Animal Health), Faculty of Veterinary Medicine, University of Lisbon; AL4AnimalS (Associate Laboratory for Animal and Veterinary Sciences), Lisbon, PRT)

**IP 12**

**“*Proteus* species in dogs from Cape Verde and São Tomé and Príncipe - a public health concern”**

presented by Manuela Oliveira (Faculty of Veterinary Medicine, CIISA - Centre for Interdisciplinary Research in Animal Health, Lisbon, PRT)

**IP 13**

**“Evaluating the therapeutic potential of phages and phage-derived enzymes by understanding the ‘One Health’ population structure of the ‘Kleopatra’ *Klebsiella* collection”**

presented by Cedric Lood (KU Leuven, Laboratory of Gene Technology, Leuven, BEL)

**IP 14**

**“Resistome landscape of a multidrug-resistant *Enterococcus faecium* strain isolated from retail broiler carcass in Tunisia”**

presented by Awatef Béjaoui (Institut Pasteur de Tunis, Laboratory of Epidemiology and Veterinary Microbiology, Tunis, TUN)

**IP 15**

**“Human pathogenic *Vibrio* species in Germany’s inland waters”**

presented by Susann Dupke (Robert Koch Institute, Highly Pathogenic Microorganisms, Berlin, DEU)

**IP 16**

**“Tracing the Pre-Antibiotic Osteomyelitis Pathogens Behind Today’s Hospital Super-bug Epidemics”**

presented by Daniel A. Myburgh (Institute of Clinical Molecular Biology, Kiel University, Kiel, DEU)

**JP: Synthetic Biology: Bone and Bane for Medical Biodefense**

**JP 01**

**“Strengthening the preparedness of the United Nations Secretary-General’s Mechanism (UNSGM) through training of qualified experts in sample collection and transportation”**  
presented by Anja Blasse (Robert Koch Institute, Centre for International Health Protection (ZIG), Berlin, DEU)

**JP 02**

**“Food defense in the state of Baden-Württemberg - from database to checklist”**  
presented by Christina Deser (CVUA Stuttgart, Fellbach, DEU)

**JP 03**

**“Nato Technical Activity: Sequencing For Environmental Aerosol Background Monitoring”**  
presented by Markus H. Antwerpen (NATO STO Research Task Group, SET-HFM-328, Paris, FRA)

**JP 04**

**“Assessing and Building Capacities: Madagascar Public Health System (ABCM)”**  
presented by Eva Schulz (Robert Koch Institute, Highly Pathogenic Microorganisms, Berlin, DEU)

**JP 05**

**“Joint Action TERROR - risks of synthetic biology and recommendations for European countries”**  
presented by Tone B. Johansen (Norwegian Institute of Public Health, Department of Preparedness and Infectious Diseases, Oslo, NOR)

**JP 06**

**“Nucleic Acid Synthesis: The Critical Bridge Between Digital Design and Biological Reality”**  
presented by Laurent Bächler (Pour Demain, Biosecurity, Bern, CHE) and Sana Zakaria (RAND Europe, Science and Emerging Technology, London, GBR)

**JP 07**

**“Swiss intensive care units and their resilience to a bioterrorist attack using modified viruses - Strategies to improve Resilience to Biotechnological Threats”**  
presented by Matthias Vetter (MEDKOM GmbH, St. Gallen, CHE)

**JP 09**

**“UNSGM Dry-lab External Quality Assurance Exercises, 2021-2024”**  
presented by Annika Brinkmann (Robert Koch Institute, Highly Pathogenic Viruses (ZBS 1), Berlin, DEU)

**JP 10**

**“Importance of biosecurity and epidemiological intelligence for Biological Defense”**  
presented by Luiz Eduardo A. Ramos da Silva (Ministry of Defense, Department of Science, Technology and Innovation, Brasília, BRA)

#### JP 11

**“The European Biodefense Laboratory Network (EBLN): Strengthening the European capability of biothreat agents’ identification and tracking systems”**

presented by Markus H. Antwerpen (Bundeswehr Institute of Microbiology, Munich, DEU)

#### JP 12

**“Disruptions in Acute Respiratory Tract Infection Trends in War-Affected Kharkiv region (Ukraine)”**

presented by Tetyana O. Chumachenko (Kharkiv National Medical University, Department of Epidemiology, Kharkiv, UKR)

#### JP 13

**“Stockpiling and provision of unauthorised therapeutics in Germany on the example of ricin antibodies”**

presented by Agata Mikolajewska (Robert Koch Institute, Strategy and Incident Response (ZBS 7), Berlin, DEU)

#### JP 14

**“SIMBA-Luso: Flagship Project for the implementation of Signature Initiative SIMBA in Lusophone Countries”**

presented by Mónica Nunes (iXLab - Iniciativa para a Resiliência Biológica Nacional, Faculdade de Ciências, Universidade de Lisboa, Campo Grande; cE3c (Centre for Ecology, Evolution and Environmental Changes), CHANGE (Global Change and Sustainability Institute), Campo Grande, Lisbon, PRT)

### **KP: Novel Technologies**

#### KP 07

**“Development of a comprehensive protocol for the isolation of viral and bacterial nucleic acids from milk”**

presented by Eva-Maria Raubuch (Bundeswehr Institute of Microbiology, Viruses and intracellular Pathogens, Munich, DEU)

#### KP 08

**“Anthrax rapid tests - the fast solution?”**

presented by Marie Harpke (Friedrich-Loeffler-Institut - Federal Research Institute for Animal Health (FLI), Institute of Bacterial Infections and Zoonoses, Jena, DEU)

#### KP 09

**“OPXV-LAMPION: modular, rapid and sensitive on-site detection of human-pathogenic Orthopoxviruses”**

presented by Andreas Puyskens (Robert Koch Institute, Highly Pathogenic Viruses (ZBS 1), Berlin, DEU)

#### KP 10

**“Utilization of a tetracycline-inducible system for high-level expression of recombinant proteins in *Francisella tularensis* LVS”**

presented by Valeria Sesko (University of Defence, Military Faculty of Medicine, Hradec Králové, CZE)

#### KP 11

**“Development of an AmpliSeq-based assay for the detection of bioterror-relevant viral pathogens”**

presented by Bárbara Simoes (Robert Koch Institute, Highly Pathogenic Viruses (ZBS 1), Berlin, DEU)

**KP 12**

**“Production of recombinant DNA polymerase to gain bigger independence from supply chains”**

presented by Oksana B. Zlenko (National Scientific Center Institute of Experimental and Clinical Veterinary Medicine, Molecular Diagnostics Lab, Kharkiv, UKR)

**KP 13**

**“Development and validation of a new innovative and highly sensitive reverse-transcription-real-time-PCR-test for the detection and diagnosis of *Brucella* spp.”**

presented by Johann Illg (Bundeswehr Institute of Microbiology, Munich, DEU)

**KP 14**

**“Microfluidic-integrated graphene based transistor for label-free biosensing”**

presented by Ksenija Arslanova (University of the Bundeswehr Munich, Institute of Physics, Neubiberg, DEU)

**KP 15**

**“Heterocellular spheroids as a new model for antivirals testing at the blood-brain-barrier (BBB)”**

presented by Leopold Gawenda (Bundeswehr Institute of Microbiology, KB2, Munich, DEU)

**KP 16**

**“Development of loop-mediated isothermal amplification (LAMP) based detection systems for *Burkholderia mallei* and *Burkholderia pseudomallei*”**

presented by Marie A. Sprunk (Bundeswehr Institute of Microbiology, Munich, DEU)

**KP 17**

**“Rapid Detection of Pathogens Using a Centrifugal Microfluidic LabDisk System”**

presented by Gustav Grether (Hahn-Schickard-Gesellschaft für angewandte Forschung e.V., Freiburg, DEU)

**KP 18**

**“A Multiplex Polymerase Chain Reaction Assay for the Detection of HSV, CMV, and VZV in Cerebrospinal Fluid”**

presented by Jochen M. Wettengel (Institute of Virology, Technical University of Munich, Munich, DEU)

**NP: Tox-Alert: New Insights into Biological Toxins**

**NP 08**

**“7 Years OPCW Biotoxin Exercises: Lessons learned”**

presented by Michael P. C. Fibinger (Bundeswehr Research Institute for Protective Technologies and NBC Protection, Biological Laboratory, Munster, DEU)

**NP 09**

**“A Workflow for Sample Preparation and Detection of Paralytic Shellfish Poisoning Toxins using Liquid Chromatography - Tandem Mass Spectrometry”**

presented by Elena Hartner (Bundeswehr Institute of Microbiology, Munich, DEU)

**NP 10**

**“Bioforensic investigations for the sensitive detection and quantification of ricin on disposable gloves”**

presented by Mandy Knüpfner (Bundeswehr Institute of Microbiology, Bacteria and Toxins, Munich, DEU)



## **OP: German Biosecurity Programme**

### **OP 10**

**“Learning from each other: an international laboratory training in Tunisia about detecting zoonotic bacterial diseases”**

presented by Monia Daaloul (National School of Veterinary Medicine of Sidi Thabet (ENMV), Department of Microbiology and Immunology, Sidi Thabet, TUN)

### **OP 11**

**“Combining German initiatives to strengthen biosecurity capabilities in Tunisia”**

presented by Gordon Wilke (Bundeswehr Institute of Microbiology, Munich, DEU)

### **OP 12**

**“Over a decade of German-Ukrainian cooperation in bacterial zoonoses”**

presented by Mandy C. Elschner (Friedrich-Loeffler-Institut - Federal Research Institute for Animal Health (FLI), Institute of Bacterial Infections and Zoonoses, Jena, DEU)

### **OP 13**

**“Training on Sampling and Identification of Biological Agents”**

presented by Nino Gegeshidze (National Center for Disease Control and Public Health (NCDC) of Georgia/R. G. Lugar Center for Public Health Research, Department of Virology, Molecular Biology and Genome Research, Tbilisi, GEO)

### **OP 14**

**“Strengthening Biosecurity through Mobile Laboratory Capacities: The German Biosecurity Programme in Uzbekistan”**

presented by Gerald Zikeli (Bundeswehr Institute of Microbiology, Munich, DEU)

### **OP 15**

**“Strengthening Biosafety and Biosecurity Measures for Zoonotic Disease Surveillance and Control: Insights from the Tunisian-German Biosecurity Program”**

presented by Ibtihel Ben Abdallah (Pasteur Institute of Tunis, Laboratory of Epidemiology and Veterinary Microbiology, Tunis, TUN)

### **OP 16**

**“Enhancing Viral Detection and Diagnostics: A Decade of the German Biosecurity Programme’s Global Impact (2013-2024)”**

presented by Bárbara Simões (Robert Koch Institute, Highly Pathogenic Viruses (ZBS 1), Berlin, DEU)

### **OP 17**

**“Enhancing the detection capabilities of *Clostridium botulinum*”**

presented by Mari Gavashelidze (National Center for Disease Control and Public Health, Richard G. Lugar Center for Public Health Research, Tbilisi, GEO)

### **OP 18**

**“Biosecurity Programme in Ukraine: Strengthening Biosecurity capacities through international cooperation”**

presented by Julia Schwarz (Bundeswehr Institute of Microbiology, Munich, DEU)

### **OP 19**

**“Development of a qPCR method for *Leptospira* spp. using the DNA sensitive dye KRYSTAL GREEN”**

presented by Oleksii Solodianskin (State Scientific Institution Institute for Single Crystals of National Academy of Sciences of Ukraine, Kharkiv, UKR)

**OP 20**

**“Optimization of Oxford Nanopore sequencing protocol for Dengue virus genomic surveillance and outbreak in Tchad”**

presented by D. Hachim-Abdoulaye (Laboratoire National de Biosécurité et d'Épidémies (LaBiEp), N'Djamena, TCD)

**PP: Emerging Viruses**

**PP 07**

**“Correlation between Lassa Virus and Odontogenic Tumors in Equatorial Africa”**

presented by Marco M. De Feo (Researcher at the Dermatopathic Institute of the Immaculate (IDI), IRCCS, Rome, ITA)

**PP 09**

**“Monitoring Immunological Markers as potential indicators for Multi-organ Lesions during COVID-19 Infections”**

presented by Shokhruh Bozoraliyev (Republican specialized scientific-practical medical center of epidemiology, microbiology, Tashkent, UZB)

**PP 10**

**“Emergence of Highly Pathogenic Avian Influenza H5 clade 2.3.4.4b viruses in White-Tailed Eagles: Genomic diversity, evolutionary analysis, and pathological impact”**

presented by Knut Madslie (Norwegian Veterinary Institute, Ås, NOR)

**PP 11**

**“Serological subtyping of TBE virus infections”**

presented by Gerhard Dobler (Bundeswehr Institute of Microbiology, Virology and Rickettsiology, Munich, DEU)

**PP 12**

**“Prevalence of TBE virus in Latvia”**

presented by Lidia Chitimia-Dobler (Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP), Immunology, Infection and Pandemic Research (IIP), Penzberg, DEU)

**PP 13**

**“Computational design of *de novo* binder targeting paramyxovirus attachment proteins”**

presented by Dominic Rieger (Institute for Drug Discovery, Faculty of Medicine, Leipzig University, Leipzig, DEU)



