

Preliminary Program (01.09.2023)

Sunday, 22nd October 2023				
15:00 – 18:00	Early Registration			
18:00 – 22:00	Ice Breaker			
Monday, 23rd October 2023				
	A Opening Ceremony			
09:00 – 10:30	Welcome Note KeyNote Lecture <i>Future challenges of unknown, emerging pathogens</i> Lisa Hensley, National Institutes of Health, Fort Detrick, USA			
10:30 – 11:00	Coffee Break			
	B Medical Countermeasures - Antimicrobials and Antivirals		C A license to kill: An update on biological toxins	
11:00 – 12:30	Dematheis Bundeswehr Institute of Microbiology, Munich, Germany Miller Centers for Disease Control and Prevention, DVBD/RZB, Atlanta, USA Amatore	<i>European multi-center study to establish MIC and zone diameter epidemiological cut-off (ECOFF) values for Bacillus anthracis</i> <i>In vitro testing of antimicrobial agents for use against Coxiella burnetii.</i> <i>Virucidal activity of essential oils</i>	Dorner Robert Koch Institute, ZBS3, Berlin, Germany Modenbach Hannover Medical School (MHH), Institute for Toxicology, Hannover, Germany Busschots European Commission, Joint Research Centre, Geel, Belgium	<i>High-end diagnostics of botulism during the largest outbreak of iatrogenic botulism ever noted</i> <i>X-BAT: Research on and generation of a decavalent equine antitoxin counter-acting deliberate botulinum neurotoxin attacks</i> <i>Five new certified reference materials (CRMs) for a better</i>

	<p>Defense Institute for Biomedical Sciences, Rome, Italy</p> <p>Yeo Emergent BioSolutions, London, United Kingdom</p> <p>Grosenbach SIGA Technologies, Poxvirus Research, Corvallis, United States</p> <p>Bugert Bundeswehr Institute of Microbiology, KB II - Virology, Munich, Germany</p>	<p><i>Determining a human clinical dose for the development of Brincidofovir for Smallpox Disease under the FDA Animal Rule</i></p> <p><i>Tecovirimat for the Treatment of Human Pathogenic Poxviruses: Focus on Monkeypox</i></p> <p><i>cCMP and cUMP phosphodiesterases in viral infections</i></p>	<p>Wu University of Science and Technology of China, Institute of Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, Hefei, Anhui, China</p> <p>Bascal Protherics UK Ltd, Llandysul, UK</p>	<p><i>preparedness towards incidents with biological toxins</i></p> <p><i>Autophagic degradation is involved in cell protection against ricin toxin</i></p> <p><i>In vivo efficacy of a polyclonal ovine antibody Fab fragment against ricin toxicity</i></p>
12:30 – 13:30	Lunch Break			
	D Oubreak Management		E Bacteriophages for Diagnostics and Therapy 1	
13:30 – 15:30	<p>Semper UK Health Security Agency, Rare & Imported Pathogens Laboratory, Porton Down, UK</p> <p>Mikaty Institut Pasteur, Global Health, Paris, France</p>	<p>UK cases of Crimean-Congo haemorrhagic fever (CCHF) and the WHO Research & Development Blueprint Roadmap for CCHF</p> <p>MediLabSecure, a One-Health network for the prevention of vector-borne</p>	<p>Loessner ETH Zurich, Institute for Food, Nutrition and Health, Zurich, Switzerland</p> <p>Dunne ETH Zurich, Institute of Food, Nutrition and Health, Zurich, Switzerland</p>	<p><i>Novel tools from bacteriophage: tiny killers and live savers</i></p> <p><i>Engineering Phage Tail Fibers and Reporter Phages for Rapid Pathogen Detection and Patient Selection for Phage Therapy</i></p>

	<p>Ruhl NATO MilMedCoE, Force Health Protection Branch, Munich, DEU</p> <p>Francesconi Defense Threat Reduction Agency, RD CBA, Ft. Belvoir, VA, USA</p> <p>Ayton UKHSA, RIPL, London, United Kingdom Reister QIAGEN, Product development MDx, Hilden, Germany</p> <p>Ben Moussa Military Hospital Tunis, Department of Virology, Tunis, Tunisia</p>	<p>diseases emergence at the European doors</p> <p>NATO MilMedCoE's Near Real Time Surveillance - Evaluation of the KFOR Pilot</p> <p>Hospital Ship Ventilation Study Identification of the 2022 Mpox outbreak: the impact of the UK Imported Fever Service</p> <p>Lessons from Covid: Establishment of QIAGENS pandemic preparedness initiative The Tunisian mobile laboratory: a national strategic tool for health support</p>	<p>Yosef microphotonx GmbH, Application/Lab, Tutzing, Germany</p> <p>Braun Fraunhofer Institute for Translational Medicine and Pharmacology ITMP - Immunology, Infection and Pandemic Research IIP, Penzberg, Germany</p> <p>Reetz Fraunhofer Institute for Translational Medicine and Pharmacology ITMP - Immunology, Infection and Pandemic Research IIP, Penzberg, Germany</p>	<p><i>Rapid detection of antibiotic resistance and phage-associated lysis of bacteria by single-cell Raman technology</i></p> <p><i>Rapid Detection and Real-Time Antibiotic Susceptibility Testing of Klebsiella pneumoniae and Yersinia pestis Using Recombinant Reporter Phages</i></p> <p><i>Recombinant receptor binding proteins of bacteriophages as versatile tools for detection of highly pathogenic bacteria</i></p>
15:30 – 16:00	Coffee Break			
	F Round-Table Discussion		G Bacteriophages for Diagnostics and Therapy 2	
16:00 – 18:00	Tbd		<p>Vogele Invitris GmbH, München, Deutschland</p>	<p><i>Cell-free production of personalized therapeutic phages</i></p>

		<p>Drulis-Kawa University of Wroclaw, Department of Pathogen Biology and Immunology, Wroclaw, Poland</p> <p>Boeckaerts Ghent University, Gent, Belgium</p> <p>Pardo-Freire Yerushalmy Hebrew Univeristy, Department of Military Medicine, Jerusalem, Israel</p> <p>Rimon Hebrew University, Department of Military Medicine, Jerusalem, Israel</p>	<p><i>targeting multidrug-resistant bacteria</i></p> <p><i>K-sensitization strategy to improve existing treatment protocols for effective therapy against AMR K. pneumoniae</i></p> <p><i>Biology-based machine learning to predict phage-host specificity for the clinical phage therapist Phage therapy: an ESKAPE route in the fight against multidrug- resistant bacteria.</i></p> <p><i>The Israeli Phage Therapy Center: From the Sewage to Patient's Bed</i></p> <p><i>Comparing Assays for Clinical Phage Microbiology in Pseudomonas aeruginosa Biofilm</i></p>
19:30 – 22:00	Conference Dinner		

Tuesday, 24th October 2023					
		H Genomics, Phylogeny and Surveillance		I Diagnostics and Detection	
08:30 – 10:30		<p>Sjödin Swedish Defence Research Agency - FOI, CBRN Defence and Security, Umea, Sweden</p> <p>Johansen Norwegian Institute of Public Health, Oslo, Norge</p> <p>Sholes The Johns Hopkins University, Applied Physics Laboratory, Laurel, USA</p> <p>Frangoulidis Kdo SanDstBw VI-2, Medical Intelligence & Information (MI2), Munich, Germany</p> <p>Lang Bundeswehr Institute of Microbiology, , Munich, Germany</p>	<p><i>Mapping the Invisible: Global Tracking of pathogen Francisella in Public Metagenomic Datasets</i></p> <p><i>Novel threats - State of the art of synthetic biology</i></p> <p><i>A multiplexed, high-throughput, targeted amplicon sequencing assay for biothreat detection</i></p> <p><i>Wastewater testing as a tool of monitoring and controlling infections</i></p> <p><i>Tracing pathogen evolution and epidemiology using Tree / Forest Graphs</i></p>	<p>Stoecker Bundeswehr Institute of Microbiology, Munich, Germany</p> <p>Paauw TNO, CBRN protection, Rijswijk, The Netherlands</p> <p>Jansen Biotrack, Leeuwarden, The Netherlands</p> <p>Hoppe ZInstSanBw Kiel, Abt C - Tiergesundheit-, Kronshagen, Germany</p> <p>Silvery</p>	<p><i>Improving existing Rapid Response Mobile Laboratories</i></p> <p><i>How shotgun proteomics can be used as a general method to detect viruses</i></p> <p><i>Autonomous, unattended air-monitoring system for early stage detection of biological threats by combining C-FISH and a novel air sampling technology.</i></p> <p><i>Detection of Vibrio cholerae from drinking water - possibilities and challenges</i></p> <p><i>The mobile laboratory - movement for molecular analytics</i></p>

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	<p>Klee Robert Koch Institute, Centre for Biological Threats and Special Pathogens (ZBS2: Highly Pathogenic Microorganisms), Berlin, Germany</p> <p>Mayerhofer Ministry of Defence, Armament and Defence Technology Agency, Wien, Austria</p> <p>Linde Friedrich-Loeffler- Institute, Institute of Bacterial Infections and Zoonoses, Jena, Deutschland</p>	<p><i>Taxonomic assignment of Bacillus cereus biovar anthracis - "There and back again"</i></p> <p><i>EuroThrax: Detection, Isolation and Bioforensics of Bacillus anthracis and highly- pathogenic Bacillus cereus sensu lato in Austria and Hungary</i></p> <p><i>Comparison of Illumina and Oxford Nanopore Technology for Genome Analysis of Francisella tularensis, Bacillus anthracis, and Brucella suis.</i></p>	<p>LABCON-OWL, Molecular Diagnostics, Bad Salzufflen, Germany</p> <p>Leggio UKHSA & LSHTM, UK Public Health Rapid Support Team, London, United Kingdom</p> <p>Baumann. WHO, Kobenhavn, Denmark</p>	<p><i>Developing the UK- Public Health Rapid Support Team Flight Case Laboratory as a tool for outbreak response, capacity strengthening and research.</i></p> <p><i>to be announced</i></p>
10:30 – 11:00	Coffee Break			
	J Medical Countermeasures - Immunology and Vaccines		K OpenTopics	
11:00 – 12:30	<p>Servais University of Namur, Dept. of Biology, Namur, Belgium</p>	<p><i>Structure and growth of the envelope in the Brucella abortus pathogen</i></p>	<p>Kohs Friedrich-Loeffler- Institut, Department of Experimental Animal Facilities and Biorisk</p>	<p><i>Peroxyacetic acid (PAA) based aerosol decontamination of commercial aircrafts</i></p>

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	<p>Surtees Robert Koch Institute, Highly Pathogenic Viruses (ZBS 1), Berlin, Germany</p> <p>Boukheba Fabentech, R&D, Lyon, France</p> <p>Palyi National Public Health Center, National Biosafety Laboratory, ERINHA node, Budapest, Hungary</p> <p>Easterbrook UKHSA, Salisbury, United Kingdom</p>	<p><i>Differentiation between Mpox infection and Imvanex immunization by a novel machine learning supported serological multiplex assay</i></p> <p><i>Broadly neutralizing polyclonal antibodies to combat biological agents in emergency situations</i></p> <p><i>Development of a Nipah measles vector vaccine (MV-NIV) to be used in outbreaks situation</i></p> <p><i>Preclinical models for the assessment of vaccine efficacy against hazard group 4 pathogens</i></p>	<p>Management, Greifswald, Germany</p> <p>Mergler Robert Koch Institute, Centre of International Health Protection, Berlin, Germany</p> <p>Sabatelli German Association of Synthetic Biology, Marburg, Germany</p> <p>Forsman Swedish Defence Research Agency, Division of CBRN Defence and Security, Umea Sweden</p>	<p><i>Preparing for biological weapons investigations: Capstone Exercise 2020/2022 and its implications for future training of qualified experts on the UNSGM roster</i></p> <p><i>Implications of synthetic biology for biodefense</i></p> <p><i>Francisella tularensis survival in natural water implicate revival in susceptible hosts for persistence</i></p>
12:30 – 13:30	Lunch Break			
	L Strategies, Concepts and Analyses		POSTERSESSION	
13:30 – 15:30	<p>Gamkrelidze Former Director General of National</p>	<p><i>German-Georgian Collaboration for</i></p>	Complimentary Poster Session	

	<p>Center for Disease Control and Public Health of Georgia, Tbilisi, Georgia</p> <p>Calderwood Defense Threat Reduction Agency, US Dept of Defense, Fort Belvoir, USA</p> <p>Sabra Hamburg University, Centre for Science and Peace Research (ZNF), Hamburg, Germany</p> <p>Von Tersch USAMRIID, Chief Science Officer, Ft Detrick, MD, USA</p> <p>Burr Institute for Defense Analyses, Alexandria, Virginia, USA</p> <p>Roßmann Kdo SanDstBw VI-2, Medical Intelligence & Information (MI2), Munich, Germany</p>	<p><i>Georgian Public Health System Strengthening</i></p> <p><i>Out-pacing the next chem-bio threat</i></p> <p><i>Anthrax bio-threat: A question of balance</i></p> <p><i>to be announced</i></p> <p><i>COVID-19 Lessons Learned for NATO Bio-responsiveness Capability</i></p> <p><i>Forces Readiness: Evidence to Decision about necessary vaccinations - applying GRADE & WHO-</i></p>	
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		<p><i>INTEGRATE as a systematic approach to evaluate FHP decision making</i></p> <p><i>CBRN medical counter-measures intelligent stockpiling</i></p>	
	<p>Queyriaux HIPS Agency, Munich, DEU</p>		
15:30 – 16:00	Coffee Break		
	M Case Reports (TED-Session)		N German Biosecurity Program
16:00 – 18:00	<p>Van Esbroeck Institute of Tropical Medicine, Department of Clinical Sciences, Antwerpen, Belgium</p> <p>Riehm Bavarian Health And Food Safety Authority, Bacteriology, Munich, Germany</p> <p>Jacob Robert Koch Institute, Centre for Biological Threats and Special Pathogens, Highly Pathogenic</p>	<p><i>The 2022 mpox outbreak - experience from an institute of tropical medicine and STI clinic</i></p> <p><i>Seroprevalence of Brucella infection in wild boars (Sus scrofa) of Bavaria, Germany, and associated genome analysis of B. suis biovar 2</i></p> <p><i>Clinical case from North Rhine-Westphalia</i></p>	<p>Bellmann Federal Foreign Office, Deputy Head of Division for Chemical and Biological Weapons Disarmament, G7 Global Partnership, German Biosecurity Programme, Berlin, Germany</p> <p>Bakanidze EU CBRN CoE RS for CA, Tashkent, Uzbekistan</p> <p>Mertens Bernhard Nocht Institute for Tropical Medicine, Infectious</p> <p><i>The German Biosecurity Programme</i></p> <p><i>Mitigation of Risks of Zoonotic Diseases that May Arise as a Result of Climatic Changes in Central Asia Region</i></p> <p><i>Strengthening sustainable biosecurity capacities across partner countries of the</i></p>

	<p>Microorganisms (ZBS 2), Berlin, Germany</p> <p>Berger Bavarian Health and Food Safety Authority, National Consiliary Laboratory for Diphtheria, Oberschleissheim, Germany</p> <p>Schneitler Institute of Medical Microbiology and Hygiene at the University Clinic of Saarland, Solingen, Germany</p> <p>Spindler LMU University Hospital, LMU Munich, Division of Infectious Diseases and Tropical Medicine, Munich, Germany</p>	<p><i>Where's the meat? A strange lymph node in a butcher</i></p> <p><i>Images say more than 1000 words?</i></p> <p><i>A swollen lip, itching and malaise in a traveler returning from Benin</i></p>	<p>Disease Epidemiology, Hamburg, Germany</p> <p>Hechmi Military Hospital Tunis, Department of Virology, Tunis, Tunisia</p> <p>Sherifi University of Prishtina "Hasan Prishtina", Department of Veterinary Medicine, Prishtina, Republic of Kosovo</p> <p>Demchyshyna State Institution Public Health Center MOH of</p>	<p><i>German Biosecurity Programme: A joint alumni network initiative by the "Global Partnership Initiated Biosecurity Academia for Controlling Health Threats (GIBACHT)" and the "German Online Platform for Biosecurity & Biosafety (GO4BSB)"</i></p> <p><i>Biological Threats in Tunisia - Joint Efforts of both the Mobile Laboratory and Task Force and Decontamination Unit are essential for an effective defense</i></p> <p><i>Preparedness, Surveillance and Response to Crimean- Congo Hemorrhagic - Fever Virus in Kosovo</i></p> <p><i>Diagnostics and surveillance of class 3 and 4 risk viruses in</i></p>
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			<p>Ukraine, Virology reference laboratory, Kyiv, Ukraine</p> <p>Bauer Bundeswehr Institute of Microbiology, Munich, Germany</p>	<p><i>Ukraine in the context of the German Biosecurity Programme</i></p> <p><i>Seroprevalence of MERS-CoV and other zoonotic pathogens in dromedary camels in South and Southeast Tunisia</i></p>
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Wednesday, 25th October 2023			
	O Zoonoses I		
08:30 – 10:30	<p>Eyer Laboratory of Emerging Viral Diseases, Veterinary Research Institute, Brno, Czech Republic</p> <p>Hohensee Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Deutschland</p> <p>Issa Centre de Recherche Médicale et Sanitaire, Niamey, Niger</p> <p>Chitimia-Dobler Bundeswehr Institute of Microbiology, Munich, Germany</p>	<p><i>Antivirals for Flaviviruses</i></p> <p><i>Indirect immunofluorescence testing of IgM against sandfly fever virus in patients with evidence of acute neurological disease</i></p> <p><i>Resurgence of Rift valley fever virus among human cases in Niger after the 2016 outbreak</i></p> <p><i>Tick-borne encephalitis virus in ticks from Latvia</i></p>	

	<p>Dobler Bundeswehr Institute of Microbiology, Munich, Germany</p> <p>Kraus Dnipropetrovsk State Medical Academy, State Institution Dnipropetrovsk Oblast Center for Disease Control and Prevention of the Ministry of Health of Ukraine, Dnipro, Ukraine</p> <p>Callaby UK Health Security Agency, Rare and Imported Pathogens Laboratory, Salisbury, United Kingdom</p>	<p><i>Seroprevalence of anti TBE-IgG and anti-NS1-IgG in blood donors in a highly endemic TBE area in south-eastern Germany</i></p> <p><i>Monitoring studies of ticks as carriers of tick-borne borreliosis and encephalitis in Dnipropetrovsk Oblast from 2018 to 2022</i></p> <p><i>Monkeypox virus isolation from longitudinal samples of 12 patients to infer risk of onwards transmission.</i></p>		
10:30 – 11:00	Coffee Break			
	O Zoonoses II			
11:00 – 11:30	<p>Bozoraliev Republican Specialized Scientific and Practical Medical Center Epidemiology Microbiology Infectious and Parasitic Diseases,</p>	<p><i>Distribution of Bacterial Coinfection in COVID-19</i></p>		



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	Microbiology, Tashkent, Uzbekistan Kouriba Centre d'Infectiologie Charles Merieux-Mali, Bamako, Mali	<i>SARS-CoV-2 seroprevalence after the first epidemic wave, 2020 in Bamako, Mali</i>		
11:30 – 12:00	Poster Awards and Farewell			



Medical Biodefense Conference

Date:

23.10.2023 -25.10.2023

Location:

Ernst-von-Bergmann-Kaserne

Audimax

Neuherbergstrasse 11

80937 München

Hosting Institute:

Institut für Mikrobiologie der Bundeswehr

Neuherbergstrasse 11

80937 München

Conference Chair:

COL Prof. Dr. Roman Wölfel

Director