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Scientific Board

Conference Chair
Professor Dr. Lothar Zöller, Colonel (MC)
Director
Bundeswehr Institute of Microbiology
Neuherbergstrasse 11, 80937 Munich, Germany
e-mail: InstitutfuerMikrobiologie@bundeswehr.org
Phone: +49-(0)89-3168-3980

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  Institut de Recherche Biomédicale des Armées
♦ Professor Dr. Dr. Andreas Hensel (DEU)
  Federal Institute for Risk Assessment
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♦ Dr. Leonard A. Smith (USA)
  US Army Medical Research Institute for Infectious Diseases
♦ Professor Dr. Jens Teifke (DEU)
  Friedrich-Loeffler-Institute
Dear Colleagues,

Thank you for joining us at the Medical Biodefense Conference 2013. For the fourteenth time now, this meeting has been organized by the Bundeswehr Institute of Microbiology. As in 2009 and 2011, the German Society for Military Medicine and Pharmacy (GSMMP/DGWMP) acts as a cooperation partner and will stage an accompanying industrial exhibition on 23 and 24 October 2013 as well as a Satellite Symposium and an amazing by-program.

More than 200 contributions have been submitted for oral and poster sessions and an interesting program has been compiled under the auspices of our new international Scientific Advisory Committee. Besides the plenary sessions that address more general aspects of biodefense, the Medical Biodefense Conference 2013 scientific program will also feature focus sessions on topics of special interest. Internationally renowned experts will give insight into their latest research findings. Of course, genomics and metagenomics issues will play a major role, and you will get the latest information on the Middle East Respiratory Syndrome, the anthrax heroine outbreak and much more. "Black Death still Alive?": Our focus session on plague will give you the answer. Have you ever heard about "RoBos and MoBos"? Learn more on them on Friday, 25 October. I also recommend the interactive Case Report and Scenario Workshop on Thursday, which is another novelty at the Biodefense Conference.

Please also note that for the first time the Conference program features some specially labeled sessions that have been compiled under the responsibility of the German Centre for Infection Research (DZIF) or the Centre for Infection Medicine Munich (ZIMM), respectively. Not to mention that Munich, the capital of the state of Bavaria, is an attractive place to meet. The Conference social event will again let you taste Bavarian tradition and hospitality.

We welcome your feedback regarding all aspects of the meeting, as this will provide valuable assistance in planning the Medical Biodefense Conference 2015.

I hope that you will enjoy your stay in Munich and wish you an informative and pleasant time at the Medical Biodefense Conference 2013.

Sincerely,

Prof. Dr. L. Zöller, Colonel (MC)
Conference Chair
Bundeswehr Institute of Microbiology
### Thursday, October 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Audimax</th>
<th>Room 9</th>
<th>Foyer 1</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Strategies and Policies</td>
<td>Finding the Poison</td>
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<td>Poster</td>
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<td>10:15</td>
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<td>13:30</td>
<td>Science Applied to</td>
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<td>Challenges in the</td>
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### Friday, October 25

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<tr>
<td>08:30</td>
<td>Medical Counter-</td>
<td>RoBos and MoBos</td>
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<td>Novel Vaccines and</td>
<td>RoBos and MoBos II</td>
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<td>Antivirals</td>
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**Tuesday | Wednesday**

### Meet the Expert

**Audimax, 16:00 — 17:30**

**A Special Lecture**

**Chair: E.-J. Finke (DEU)**

#### 16:00 AO 01

**The Soviet Biological Weapons Program: A History**

M Leitenberg  
*Center for International and Security Studies, Gaithersburg, MD, USA*

---

### Opening Session

**Audimax, 08:30 — 10:15**

**B Genomics Meets Emerging Pathogens**

**Chairs: L. Zöller (DEU) and H. Meyer (DEU)**

#### 08:30

**Opening and Welcome Notes**

Conference Chair  
Commandant of the Bundeswehr Medical Academy  
President of the German Society for Military Medicine and Pharmacy

#### 08:45

**Genomic Analysis of Bacterial Pathogens**

MC Maiden  
*University of Oxford, Department of Zoology, Oxford, GBR*

#### 09:30

**Viral Reservoirs and the Promise of Pandemic Preparedness**

C Drosten  
*University of Bonn, Institute of Virology, Bonn, DEU*

---

### Focus Session

**Audimax, 10:45 — 12:30**

**C Towards a High Level of Confidence in Biodefense Diagnostics**

**Chairs: R. Grunow (DEU) and S. Schmoldt (DEU)**

#### 10:45 CO 01

**Brucellosis in Europe is Still a Threat? Reports from Italy and Sweden**

G Garofolo¹, A Fasanella², I Platone¹, T Boskani³, and T Wahab³  
¹ - IZS Abruzzo e Molise "G. Caporale", National and OIE Reference Laboratory for Brucellosis, Teramo, ITA; ² - IZS Puglia e Basilicata, Anthrax Reference Institute of Italy, Foggia, ITA; ³ - Swedish Institute for Communicable Disease, Department of Preparedness, Stockholm, SWE
Human *Bacillus anthracis* Infection in Southern Portugal: An Uncommon Finding?
R Cordeiro¹, A Pelerito¹, J Rodrigues¹, F Orterga², J Rosário², R Escoval², P Febra², and MS Núncio¹
¹ - Instituto Nacional de Saúde Doutor Ricardo Jorge, departamento de Doenças Infecciosas, Unidade de resposta a Emergências e Biopreparação, Lisboa, PRT; ² - Hospital José Joaquim Fernandes SA, Unidade de Saúde Pública, Beja, PRT

Preliminary Conclusions from European wide External Quality Assurance Exercises for the Diagnosis of High Threat Bacteria – Joint Action QUANDHIP
R Grunow, D Jacob, and U Sauer
Robert Koch-Institut, Centre for Biological Threats and Special Pathogens, Highly Pathogenic Microorganisms (ZBS 2), Berlin, DEU

Imported Fever and High Consequence Pathogens in the UK
J Lambourne¹, AE Semper¹, A Aiken¹, P Chiodini², N Beeching³, and TJ Brooks¹
¹ - Public Health England, Rare and Imported Pathogens Laboratory, Salisbury, GBR; ² - Hospital for Tropical Diseases, London, GBR; ³ - Royal Liverpool Hospital, Tropical Infectious Disease Unit, Liverpool, GBR

Yes, S-I-R! Susceptibility Testing of a New Substance Requires Strict Rules
GH Genzel¹, E Georgi¹, A Vente², S Schmoldt¹, R Schaumann³, and HC Scholz¹
¹ - Bundeswehr Institute of Microbiology, Bacteriology, Munich, DEU; ² - MerLion Pharmaceuticals GmbH, Berlin, DEU; ³ - University of Leipzig, Leipzig, DEU

In vitro Testing of Alternative Antibiotics for Treating Q fever (*Coxiella burnetii*)
RF Massung, KM Marrero-Santos, K Fitzpatrick, and GJ Kersh
Centers for Disease Control and Prevention, Rickettsial Zoonoses Branch, Atlanta, GA, USA

Focus Session

Bugs from Ticks and Voles
*Chairs: A. Estrada-Peña (ESP) and S. Essbauer (DEU)*

Modeling, Inferring and Projecting: Are Ecological Reasons the Only Factor Behind the Upsurge of Tick-transmitted Pathogens?
A Estrada-Peña
University of Zaragoza, Veterinary Faculty, Department of Parasitology, Zaragoza, ESP

(Session D is continued on next page)
Predicting the Risk for Hantavirus Disease in a Montane Forest Environment
BR Thoma¹, J Müller², C Bässler³, A Osterberg³, S Schex⁴, C Bottomley⁵, E Georgi¹, and SS Essbauer¹
¹ - Bundeswehr Institute of Microbiology, Munich, DEU; 2 - National Park Bohemian Forest Administration, Grafenau, DEU; 3 - University of Rostock, Rostock, DEU; 4 - Vetsuisse Faculty, Bern, CHE; 5 - London School of Hygiene and Tropical Medicine, London, GBR

Ixodes persulcatus, a Major Vector of Alphaproteobacteria and Other Microorganisms in Russia
S Shpynov
FBUN Omsk Scientific Research Institute of Natural Focal Infections
Rospotrebnadzora, Research Department, Omsk, RUS

Characteristics of the Genetic Properties and Pathogenic Potential of the Original Version of Tick-borne Encephalitis Virus Circulating in Eastern Siberia (Russia)
AI Paramonov¹, IV Kozlova¹, MM Verkhozina², YP Dzhioev¹, TV Diomina³, SE Tkachev³, EK Doroschenko¹, OV Lisak¹, OO Fedulina¹, and VI Zlobin³
¹ - Scientific center for family health and human reproduction problems, SB RAMS, Irkutsk, RUS; 2 - Center of Hygiene and Epidemiology in the Irkutsk region, Irkutsk, RUS; 3 - Irkutsk State Medical University, Irkutsk, RUS; 4 - Institute of Chemical Biology and Fundamental Medicine, SB RAS, Novosibirsk, RUS

Study of Tick-borne Encephalitis Virus in Mongolia
T Damdindorj, B Baigalmaa, A Erdenebat, J Dulamjav, T Bayar, and B Uyanga
National Center for Zoonotic Diseases, Ulaanbaatar, MNG

Workshop MERS and More
Chairs: S. Becker (DEU) and G. Dobler (DEU)

The Thematic Translational Unit (TTU) Emerging Infections within the Scope of the German Centre for Infection Research (DZIF)
S Becker¹,²
¹ - Philipps-Universität-Marburg, Institut für Virologie, Marburg, DEU; 2 - German Centre for Infection Research, Partner site Gießen-Marburg-Langen, DEU

Clinical Features of an Imported Case of Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Infection
M Seilmaier, W Guggemos, and C Wendtner
Klinikum Schwabing, Dept. of Hematology, Oncology, Immunology, Palliative Care, Infectious Diseases and Tropical Medicine, Munich, DEU
14:10 Middle East Respiratory Syndrome Coronavirus Spike Protein Delivered by Modified Vaccinia Virus Ankara Efficiently Induces Virus-Neutralizing Antibodies
F Song¹, R Fux¹, LB Provacia², A Volz¹, M Eickmann³, S Becker³, AD Osterhaus², BL Haagmans², and G Sutter¹
1 - Institute for Infectious Diseases and Zoonoses, LMU, Munich, DEU; 2 - Erasmus Medical Center, Department of Viroscience, Rotterdam, NLD; 3 - Institute of Virology, Philippus University Marburg, Marburg, DEU

14:25 Expecting the Unexpected: Using Crystal Structures of Bat-Coronavirus Main Proteases to Design Inhibitors for Their Zoonotic Descendants
Y Xiao¹,², Q Ma¹,², D Lin¹,²,³, L Zhang¹,², Y Kusov¹,², S George¹,², L Zhu¹,², H Liu³, D Muth¹,², MA Müller²,³, C Drosten²,³, and R Hilgenfeld¹,²,³
1 - University of Lübeck, Institute of Biochemistry, Lübeck, DEU; 2 - German Center for Infection Research (DZIF), DEU; 3 - Chinese Academy of Sciences, Shanghai Institute of Materia Medica, Shanghai, CHN; 4 - University of Bonn Medical Centre, Institute of Virology, Bonn, DEU

14:40 The Middle East Respiratory Syndrome (MERS): Possible Military Consequences – An Assessment as of July 27th 2013
Ø Olsvik¹, P Ballangrud², O Scheel¹, and D Hjelle²
1 - Norwegian Defense, Micorbiological Institute, Oslo, NOR; 2 - NOR Armed Forces, Medical Services, Oslo, NOR

14:55 Next Generation Sequencing of a Longitudinal Tick-borne Encephalitis Virus Study in a Micro-Focus in Central Europe
S Frey¹, D Höper², M Beer¹, G Dobler¹, and SS Essbauer¹
1 - Bundeswehr Institute of Microbiology, Virology & Rickettsiology, Munich, DEU; 2 - Friedrich-Loeffler-Institut, Institute of Diagnostic Virology, Greifswald-Riems, DEU

15:10 Rift Valley Fever Outbreak in Mauritania: Molecular Analysis and Seroepidemiological Survey
M Eiden¹, S Jäckel¹, BO El-Mamy², A Balkema-Buschmann¹, A Vina-Rodriguez¹, H Unger², K Isselmou², B Doumbia³, and MH Groschup¹
1 - Friedrich-Loeffler-Institut, Institute for Novel and Emerging Infectious Diseases, Greifswald, DEU; 2 - Centre National de l’Élevage et de Recherches Vétérinaires (CNERV), Service de Pathologie Infectieuses, Nouakchott, MRT; 3 - Joint FAO/IAEA Division, Vienna, AUT; 4 - Ministère du Développement Rural, Nouakchott, MRT
Wednesday

Satellite Symposium

F

Bringing MALDI-TOF to Biodefense

Chairs: M. Kostrzewa (DEU) and G.H. Genzel (DEU)

13:30  Specific Aspects of MALDI-TOF MS Identification of Highly Pathogenic Bacteria
       M Drevinek
       National Institute for NBC Protection, Lab. of Biological Monitoring, Milin, CZE

14:00  Potential and Limits of MALDI-TOF MS for the Identification of Biological Agents on the Species and Subspecies Level
       A Karger
       Friedrich-Loeffler-Institut, Institute of Molecular Biology, Greifswald, DEU

14:30  Outer Membrane Protein OmpU as a Biomarker for Fast Discrimination Between Toxigenic and Epidemic Vibrio cholerae O1/O139 and Non-Epidemic Vibrio cholerae in a Modified MALDI-TOF MS Assay
       H Trip¹, M Niemcewicz², R Sellek³, JM Heng⁴, RH Mars-Groenendijk¹, AL De Jong¹, JA Majchrzykiewicz¹, JS Olsen⁵, E Tsivtsivadze⁵, and A Paauw¹
       1 - TNO, CBRN Protection, Rijswijk, NLD; 2 - Military Institute of Hygiene and Epidemiology, Pulawy, POL; 3 - Ministry of Defence, Instituto Tecnologico La Maranosa, Madrid, ESP; 4 - Norwegian Defence Research Establishment, Kjeller, NOR; 5 - TNO, Microbiology and Systems Biology, Zeist, NLD

14:45  Options for MALDI-TOF MS Assisted Susceptibility Testing in Clinical Microbiology
       JS Jung
       Max von Pettenkofer-Institute, Department of Bacteriology, Munich, DEU

15:15  Peptide Fingerprinting as a Successful Method for Identification of Influenza A Viruses
       JA Majchrzykiewicz², FE Coenjaerts², H Trip¹, A Hulst¹, AD Jong¹, E Heikens², and A Paauw¹
       1 - TNO, CBRN Protection, Rijswijk, NLD; 2 - University Medical Center, Department of Medical Microbiology, Utrecht, NLD

Kindly supported by Bruker Daltonik GmbH
Focus Session

From Microbial Typing towards Bioforensics

Chairs: P. Keim (USA) and R. Wölfel (DEU)

16:00  Biothreat Agents’ Population Genetic Structure Determination for Enhancing Biodefense
GO 02
PS Keim
1. Northern Arizona University, Center for Microbial Genetics and Genomics, Flagstaff, AZ, USA; 2. The Translational Genomics Research Institute, Pathogen Genomics, Flagstaff, AZ, USA

16:25  Cellular Fatty Acid Analysis for the Forensic Attribution of Bacterial Threat Agents
GO 03
CJ Ehrhardt, C Stanciu, J Goss, D Jessup, and E Lapatovich
Virginia Commonwealth University, Forensic Science, Richmond, VA, USA

16:55  Genotyping of Bacillus anthracis Strains from an Extended Outbreak of Injectional Anthrax in Drug Consumers
GO 04
1. Bundeswehr Institute of Microbiology, Munich, DEU; 2. Robert Koch-Institute (RKI), Centre for Biological Threats and Special Pathogens (ZBS2), Berlin, DEU; 3. Institute of Environmental and Animal Hygiene, University of Hohenheim, Stuttgart, DEU; 4. Center for Microbial Genetics and Genomics, Northern Arizona University, Flagstaff, AZ, USA; 5. Institute of Clinical Microbiology and Hygiene, University Hospital Regensburg, Regensburg, DEU; 6. Norwegian Institute of Public Health, Department of Bacteriology and Immunology, Oslo, NOR; 7. Statens Serum Institut, National Institute for Health Data and Disease Control, Copenhagen, DNK

17:10  Towards a Unified Bacillus anthracis MLVA-Typing System: Characterization of Repeat Number and Consensus Sequences of MLVA31 loci
GO 05
B Gentile, A Ciammaruconi, K Hilss, R Haumacher, V Pittiglio, MH Antwerpen, G Grass, M Hanczaruk, F Lista, and W Beyer
1. Army Medical Research Center, Histology and Molecular Biology Section, Rome, ITA; 2. University of Hohenheim, Institute of Environmental and Animal Hygiene, Stuttgart, DEU; 3. Bundeswehr Institute of Microbiology, Munich, DEU

17:25  How to Handle Ricin Letters? A Technological Solution to Analyze Powder Samples for the Presence of Bioagents
GO 06
C Pöhlmann and T Elßner
Bruker Daltonik GmbH, Application CBRNE, Leipzig, DEU
**Focus Session**

**Inside Ticks and Cells**

*Chairs: R. Toman (SVK) and D. Frangoulidis (DEU)*

**16:00**

**Increasing Tick-borne Diseases of Humans in the USA and Identification of Novel Rickettsial and Viral Agents**

R F Massung  
*Centers for Disease Control & Prevention, Rickettsial Zoonoses Branch, Atlanta, GA, USA*

**16:30**

**Rickettsiae in Ticks from Romania**

L Chitimia, S Speck, S Nicolae, SS Essbauer, M Pfeffer, S Wölfel, and G Dobler  
1 - Institute of Diagnosis and Animal Health, Department of Parasitology, Bucharest, ROU; 2 - Institute of Animal Hygiene and Public Veterinary Medicine, Leipzig, DEU; 3 - Bundeswehr Institute of Microbiology, Munich, DEU

**16:45**

**Development of a Rickettsia helvetica Specific Real-Time Polymerase Chain Reaction Assay**

S Wölfel, SR Schaper, G Dobler, S Speck, and R Wölfel  
1 - Bundeswehr Institute of Microbiology, Virology & Rickettsiology, Munich, DEU; 2 - University of Leipzig, Institute of animal hygiene and veterinary public health, Leipzig, DEU

**17:00**

**Zoonotic Tick-borne Pathogens in Roe Deer (Capreolus capreolus) and Wild Boar (Sus scrofa), in Questing Ticks (Ixodes ricinus), and in Ticks Infesting These Animals in a Forest in Bavaria, Germany**

C Silaghi, K Pfister, I Herb, M Mahling, and E Overzier  
1 - Comparative Tropical Medicine and Parasitology, Ludwig-Maximilians-Universität München, Munich, DEU; 2 - Statistical Consulting Unit, Ludwig-Maximilians-Universität München, Munich, DEU

**17:15**

**Search for Unique Structural Motifs in the Lipopolysaccharide of Coxiella burnetii with Potential Applications in Diagnostics and Prophylaxis of Q Fever**

R Toman and D Frangoulidis  
1 - Institute of Virology, Slovak Academy of Sciences, Dept. of Rickettsiology, Bratislava, SVK; 2 - Bundeswehr Institute of Microbiology, Munich, DEU

**17:30**

**The Challenging Epidemiology of Q Fever in French Guiana**

JL Marié, V Pommier de Santi, D Schlienger, C Ilcinkas, D Raoult, and B Davoust  
1 - French Forces Medical Service, Working Group on Animal Epidemiology, Toulon, FRA; 2 - French Forces Medical Service, Cayenne, GUF; 3 - French Forces Medical Service, Saint-Jean du Maroni, GUF; 4 - Research Unit on Emerging Infectious and Tropical Diseases (URMITE), National Reference Center for Coxiella, Marseille, FRA
The Art of (Coxiella) Genome Sequencing

MC Walter1,2, and D Frangoulidis3

1 - Helmholtz Center Munich, Institute of Bioinformatics and Systems Biology, Neuherberg, DEU; 2 - Technical University Munich, Department of Genome-Oriented Bioinformatics, Freising, DEU; 3 - Bundeswehr Institute of Microbiology, Munich, DEU

Focus Session

Strategies and Policies

Chairs: R. Burger (DEU) and S. Bankoul (CHE)

08:30  Dual Use Research of Concern in Life Sciences - Time for an International Endeavour

L Schaade
Robert Koch Institute, Berlin, DEU

08:50  Syria’s Biological Weapon Complex, Hezbollah & the Threat to Europe

J Bellamy van Aalst
CEO Warfare Technology Analytics, BEL

09:10  UK’s Strategic Approach to Deal with a Biological Threat Incident

N Gent
Emergency Response Department, Public Health England, Salisbury, GBR

09:30  Biological Casualty Estimation within the NATO CBRN Casualty Estimation Methodology [AMedP-8(C)]

SM Oxford, AC Kelley, CA Curling, and JK Burr
Institute for Defense Analyses, Alexandria, VA, USA

09:45  Overview on Biodefense Activities of the French Armed Forces

Biomedical Research Institute

D Garin and I Leparc-Goffart
Armed Forces Biomedical Research Institute, Bretigny-sur-Orge, FRA

10:00  Improving the Biosafety and Biosecurity in Georgia within the International Cooperation

A Gamkrelidze, K Zadize, A Kasradze, and P Imnadze
National Center for Disease Control and Public Health (NCDC), GEO
Thursday

Focus Session

Finding the Poison

Chairs: M.B. Dorner (DEU) and J. Riehm (DEU)

08:30  State of the Art: Detection of Ricin Toxin
JO 01  S Worbs, BG Dorner, and MB Dorner
Robert Koch-Institut, Biological Toxins (ZBS3), Berlin, DEU

09:00  Mass Spectrometric Methods for Detection and Identification of Proteins and Protein Adducts
JO 02  H John and H Thiermann
Bundeswehr Institute of Pharmacology and Toxicology, Analytcis, Munich, DEU

09:15  Detection and Differentiation of BoNT by Mass Spectrometry
JO 03  J Dresler¹, JM Riehm², P Pajer¹, H Martin³, J Klimentova⁴, A Fucikova⁴, J Matejkova¹, HC Scholz², and L Píša¹
¹ - Military health institute, Prague, CZE; ² - Bundeswehr Institute of Microbiology, Munich, DEU; ³ - State institute for nuclear protection, Prague, CZE; ⁴ - Faculty of military health sciences, UoD, Hradec Králové, CZE

09:30  An In vitro Functional Assay for the Detection of Botulinum Toxins
JO 04  SP Jenkinson¹, MA Avondet¹, OG Weingart², F Gessler³, and A Rummel⁴
¹ - LABOR SPIEZ, Toxicology, Spiez, CHE; ² - ETH, Institute of Food, Nutrition and Health, Zürich, CHE; ³ - miprolab GmbH, Göttingen, DEU; ⁴ - Medizinische Hochschule Hannover, Institut für Toxikologie, Hannover, DEU

09:45  An In vitro Co-Culture Model of Nerve- and Muscle Tissue for Detection of Botulinum Toxins and Studying of New Treatment Options for Toxin Poisoning
JO 05  T Seeger¹, VS Eckle², B Drexler², C Grasshoff², H Thiermann¹, and B Antkowiak²
¹ - Bundeswehr Institute of Pharmacology and Toxicology, Munich, DEU; ² - Department of Anesthesiology and Intensive Care Medicine, Experimental Anesthesiology Section, Eberhard-Karls University Tuebingen, DEU
10:45  Stand-off Bio Detection – State-of-the-Art Survey and Conclusions
KO 01  S Römer¹, A Acuña Benito², J Baumela³, I Bueno³, JC Burbiel¹, H Criado de Pastors², J Lega de Benito⁷, L Requejo Morcillo⁵, C Salemi³, and RE Schietke¹
¹ - Fraunhofer INT, Euskirchen, DEU; ² - Isdefe, S.A, Madrid, ESP; ³ - IBATECH Tecnología, S.L, Madrid, ESP

11:00  Kill ‘em All - Biothreat Agents Succumb to Metallic Copper Surfaces
KO 02  P Bleichert and G Grass
Bundeswehr Institute of Microbiology, Munich, DEU

11:15  Laser-Heated Nanoparticles for Ultra-Fast DNA Amplification and Detection
KO 03  F Bürsgens, C Rebuffo-Scheer, J Stehr, L Ullerich, and K Zigann
GNA Biosolutions GmbH, Martinsried, DEU

11:30  Personal Equipment to Protect Against Bio-Hazards: Gaps - Solutions - Perspectives
KO 04  F Hesse
Bundeswehr Research Institute for Protective Technologies and NBC-Protection (WIS), Munster, DEU

11:45  Lab-on-a-Chip PCR: Real Time PCR in Miniaturized Format
KO 06  C Gärtner¹, H Becker¹, N Hlawatsch¹, R Klemm¹, S Schattschneider¹, S Julich², H Tomaso⁵, and C Moche¹
¹ - microfluidic ChipShop GmbH, Jena, DEU; ² - Friedrich-Loeffler-Institut, Bundesforschungsinstitut für Tiergesundheit, Institut für bakterielle Infektionen und Zoonosen, Jena, DEU

12:00  Burkholderia pseudomallei Antibiotic Resistance Mechanisms
KO 07  HP Schweizer
Department of Microbiology, Immunology and Pathology and Rocky Mountain Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research, Colorado State University, Fort Collins, CO, USA
**Thursday**

**Focus Session**

**Science Applied to Challenges in the Field**

*Chairs: J.L. Gala (BEL) and R. Wölfel (DEU)*

**Audimax, 13:30 — 15:30**

**13:30**  
**LO 01**  
**Working with High Consequence Pathogens in Field Deployed Outbreak Response Labs**  
E Newman, A Bosworth, and R Hewson  
*Porton Down, Public Health England, Virology & Pathogenesis, Salisbury, GBR*

**13:55**  
**LO 02**  
**Establishment of Mobile Laboratories up to Risk Group 4 in Combination with CBRN Capacity Building in Sub-Saharan Africa**  
K Stöcker, M Gabriel, E Fleischmann, J Schmidt-Chanasit, A Dicaro, S Meschi, G Ippolito, S Günther, and R Wölfel  
1 - Bundeswehr Institute of Microbiology, Munich, DEU; 2 - Bernhard-Nocht-Institute for Tropical Medicine, Virology, Hamburg, DEU; 3 - National Institute for Infectious Diseases Lazzaro Spallanzani, Rome, ITA

**14:15**  
**LO 03**  
**Rapid Diagnosis and Assessment of Causative Agents of Skin Rash Illness Outbreak in Kasai Occidental Province (Democratic Republic of Congo) by Quantitative Real-Time PCR and Pyrosequencing of Human Specimens**  
C Dumont, L Irenge, EK Magazani, D Garin, JJT Muyembe, M Bentahir, and JL Gala  
1 - Royal Military Academy, Brussels, BEL; 2 - Center for Applied Molecular Technologies, Institut de Recherche Expérimentale et Clinique, Université Catholique de Louvain, Brussels, BEL; 3 - Biothreats Unit, Defense Laboratories Dept., Brussels, BEL; 4 - Ministère de la Santé Publique, COD; 5 - IRBA, Institut de Recherches Biomédicales des Armées, Service de Santé des Armées, Bretigny-sur-Orge, FRA; 6 - Institut National de Recherche Biomedicale, Kinshasa, COD

**14:30**  
**LO 04**  
**Recombinase Polymerase Amplification a New Tool for Rapid Molecular Diagnostics of Emerging Infectious Diseases**  
FT Hufert and MW Weidmann  
*Institute of Virology, University Medical Center Goettingen, DEU*

**14:45**  
**LO 05**  
**Development of a Versatile and Stable Internal Control System for RT-qPCR Assays**  
E Felder and R Wölfel  
*Bundeswehr Institute of Microbiology, Dept. for Med. Bio Recon. and Verification, Munich, DEU*

**15:00**  
**LO 06**  
**A Fast and Reliable Test Kit for On-Site Detection of Crimean Congo Hemorrhagic Fever Virus from Blood**  
S Ringlstetter, M Kolb, R Wölfel, and S Klaus  
1 - Securetec Detektions-Systeme AG, Munich, DEU; 2 - Bundeswehr Institute of Microbiology, Munich, DEU
**BFREE - Safe Handling and Preparation of CBRN Mixed Samples: Biological Challenges and Solutions**

B Niederwöhrmeier$^1$, JM Blatny$^2$, JS Olsen$^4$, M Nygren$^3$, M Byström$^3$, M Bentahir$^4$, JL Gala$^4$, H Spruit$^5$, A Wimmer$^6$, and J Francillette$^7$

1 - Bundeswehr Research Institute for Protective Technologies and NBC-Protection (WIS), Munster, DEU; 2 - Norwegian Defence Research Establishment (FFI), Kjeller, NOR; 3 - Swedish Defence Research Agency (FOI), Stockholm, SWE; 4 - Center for Applied Molecular Technologies/Defense Department Laboratories (CTMA/DLD-Bio), Brussels, BEL; 5 - The Netherlands organization for Applied Scientific Research, Rijswijk, NLD; 6 - Armament and Defense technology (ARWT/ABCUT), Vienna, AUT; 7 - DGA CBRN Defence, Ver-Le-Petit, FRA

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**Focus Session**

**Black Death still Alive?**

*Chairs: E. Carniel (FRA) and H.C. Scholz (DEU)*

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**13:30  Plague Vaccine: A New Promising Approach**

MO 01 A Derbise, C Demeure, and E Carniel

Institut Pasteur, Yersinia Research Unit, Paris, FRA

**14:00  The Immune Response to Recombinant Plasminogen Activator (Pla) of Yersinia pestis**

MO 02 SY Pchelintsev$^1$, VS Khlebnikov$^1$, IV Kosarev$^1$, NN Karkichenko$^2$, VN Karkichenko$^2$, and VM Abramov$^1$

1 - JSC “The Institute of Immunological Engineering”, Lyubuchany Moscow Region, RUS; 2 - The Scientific Center of Biomedical Technologies of the Russian Academy of Medical Sciences, Moscow, RUS

**14:15  The Role of Yersinia pestis Presensibilization in Resistance of Black Rats Against Plague**

MO 03 V Andrianaiyoarimanana$^{12}$, M Rajerison$^1$, M Ranjalaly$^1$, and R Jambou$^2$

1 - Institut Pasteur de Madagascar, Plague, Antananarivo, MDG; 2 - Institut Pasteur de Madagascar, Immunology, Antananarivo, MDG

**14:30  Epidemiological Features of Pneumonic Plague in Madagascar with Special Emphasis on Ambilobe and Faratsiho Events**

MO 04 M Rajerison$^1$, H Razafimandimby$^2$, M Ratsitorahina$^3$, S Andrianalimanana$^1$, P Herindrainy$^3$, and V Richard$^4$

1 - Institut Pasteur de Madagascar, Plague Unit, Antananarivo, MDG; 2 - Ministry of Health, Direction de la Veille sanitaire et de Surveillance Epidémio-logique, Antananarivo, MDG; 3 - Institut Pasteur de Madagascar, Epidemiology Unit, Antananarivo, MDG; 4 - Institut Pasteur de Dakar, Dakar, SEN

(Session M is continued on next page)
14:45  Typing of Y. pestis from Clinical Plague Specimens from Madagascar
       MO 05  JM Riehm, M Rajerison, M Projahn, R Soanandrasana, CM Hall, G Andersen, M Lummis, J Walker, R Nottingham, AJ Vogler, PS Keim, DM Wagner, and HC Scholz
       1 - Bundeswehr Institute of Microbiology, Bacteriology, Munich, DEU; 2 - Institut Peteur de Madagascar, unité peste, Antananarivo, MDG; 3 - Center for Microbial Genetics and Genomics, Flagstaff, AZ, USA

15:00  Diverse Lineages of Yersinia pestis are Present in Mongolia
       MO 06  DM Wagner, CM Hall, JM Riehm, D Kiefer, T Damdindorj, O Dashdavaa, G Dalantai, J Sahl, R Nottingham, AJ Vogler, PS Keim, and HC Scholz
       1 - Northern Arizona University, Center for Microbial Genetics and Genomics, Flagstaff, AZ, USA; 2 - Bundeswehr Institute of Microbiology, Munich, DEU; 3 - National Center for Zoonotic Diseases, Ulaanbaatar, MNG

15:15  Yersinia pestis DNA from Skeletal Remains from the 6th Century AD Reveals Insights into Justinianic Plague
       MO 07  HC Scholz, L Seifert, S Hänsch, DM Wagner, DN Birdsell, KL Parise, I Wiechmann, G Grupe, A Thomas, PS Keim, L Zöller, B Bramanti, JM Riehm, and M Harbeck
       1 - Bundeswehr Institute of Microbiology, Bacteriology, Munich, DEU; 2 - Department Biology I, Anthropology and Human Genetics, Munich, DEU; 3 - Institute for Anthropology, Mainz, DEU; 4 - Center for Microbial Genetics and Genomics, Flagstaff, AZ, USA; 5 - Institute of Palaeoanatomy, Domestication Research and the History of Veterinary Medicine, Munich, DEU; 6 - State Collection for Anthropology and Palaeoanatomy, Munich, DEU

Focus Session

Genomics, Metagenomics and Beyond

Chairs: J. Kalinowski (DEU) and G. Grass (DEU)

16:00  Next-Generation Sequencing Strategies for Deciphering Microbial Genomes, Metagenomes, and Transcriptomes
       NO 01  J Kalinowski
              Bielefeld University, Center for Biotechnology, Bielefeld, DEU

16:30  Metagenomics for Detection and Characterization of Biothreat Agents
       NO 02  D Höper
              Friedrich-Loeffler-Institut, Bundesforschungsinstitut für Tiergesundheit, Greifswald – Insel Riems, DEU
17:00 Microevolution During a Confined Anthrax Outbreak Leading to Clonal Heterogeneity and Penicillin Resistance  
J Ågren\(^1,2\) and B Segerman\(^1\)  
\(^1\) National Veterinary Institute, Bacteriology, Uppsala, SWE; \(^2\) Swedish University of Agricultural Sciences, Biomedical Sciences and Veterinary Public Health, Uppsala, SWE

17:15 Automated Finished Microbial Genomes and Epigenomes to Understand Infectious Diseases  
R Vogelsang  
Pacific Biosciences, Menlo Park, CA, USA

17:30 Bacterial Whole Genome Sequencing and Core Genome MLST Analysis – The Next Step towards a Standardized Typing Method for \textit{F. tularensis}  
MH Antwerpen\(^1\), K Prior\(^1\), S Höppner\(^1,2\), D Harmsen\(^2\), and WD Splettstoesser\(^1\)  
\(^1\) Bundeswehr Institute of Microbiology, Munich, DEU; \(^2\) University of Münster, Department Periodontology, Münster, DEU

17:45 Whole-Genome Genetic Analysis of \textit{F. tularensis}-Positive Clinical Samples from Turkey  
DN Birdsell\(^1\), Y Özürekci\(^2\), AE Aycan\(^2\), V Gurbuz\(^2\), A Rawat\(^3\), J Schupp\(^3\), A Johansson\(^4\), AJ Vogler\(^1\), PS Keim\(^1\), M Ceyhan\(^2\), and DM Wagner\(^1\)  
\(^1\) Northern Arizona University, Center for Microbial Genetics and Genomics, Flagstaff, AZ, USA; \(^2\) Hacettepe University, Department of Pediatric Infectious Diseases, School of Medicine, Ankara, TUR; \(^3\) Translational Genomics Research Institute, Flagstaff, AZ, USA; \(^4\) Umeå University, Umeå, SWE

Interactive Voting Session  
Room 9, 16:15 — 18:15  
Case Report and Scenario Workshop  
\textit{Chairs: S. Schmoldt (DEU) and D. Frangoulidis (DEU)}

16:00 A Case of Bloody pneumonia  
TJ Brooks  
Emergency Response Department, Public Health England, Rare & Imported Pathogens Laboratory, Salisbury, GBR

16:20 A Case of Peripheral Lymphadenopathy  
S Dieckmann\(^1\), BR Thoma\(^2\), F Steiner\(^1\), P Vollmar\(^2\), I Barreto-Miranda\(^1\), and S Schmoldt\(^2\)  
\(^1\) Institute of Tropical Medicine and International Health, Charité Universitätsmedizin Berlin, Outpatient clinic for Tropical Medicine, Berlin, DEU; \(^2\) Bundeswehr Institute of Microbiology, Central Diagnostic Unit, Munich, DEU

(Session O is continued on next page)
16:40  A Male Patient with an Unusual Cutaneous Infection After Gadfly Bite
OO 03  A Fasanella1, L Serrecchia1, A Aceti1, L Giangrossi1, L Marino2, G Garofolo2, and R Adone3
1 - Istituto Zooprofilattico Sperimentale of Puglia and Basilicata, Foggia, ITA; 2 - Istituto Zooprofilattico Sperimentale of Abruzzo and Molise "G. Caporale", Teramo, ITA; 3 - Istituto Superiore di Sanità, Roma, ITA

17:00  Detection of and Responding to a Large Public Health Emergency – Oktoberfest ... An Evolving Event
OO 04  DL Thomas and D Bogolub
National Center for Biomedical Research and Training (NCBRT), Academy of Counter-Terrorist Education at Louisiana State University, Baton Rouge, LA, USA

Focus Session

Medical Countermeasures: State of the Developmental Pipeline

Chairs: L. Zöller (DEU) and A.C. Rodloff (DEU)

08:30  Optimizing the Use of Anthrax Vaccine
PO 01  T Waytes
Emergent BioSolutions, Rockville, MD, USA

08:45  The Use of Anthrax and Orthopox Therapeutic Antibodies from Human Origin in Biodefense
PO 02  S Stienstra
Royal Dutch Navy Reserve, 1-CIMIC Battalion, Beek-Ubbergen, NLD

09:00  Inhibitors of the Macrophage Infectivity Potentiator (MIP) Protein for the Treatment of Burkholderia, Yersinia and Francisella Infections
PO 03  F Seufert1, C Juli1, M Hein1, IH Norville2, D Jenner2, M Sarkar-Tyson2, M Weiwand3, K Schweimer2, P Rösch4, R Stacy5, P Myler5, D Begley6, D Fox6, D Lorimer6, CA Sotrieff3, and U Holzgrabe4
1 - Institute of Pharmacy and Food Chemistry, University of Würzburg, DEU; 2 - Defence Science and Technology Laboratory, Porton Down, Salisbury, GBR; 3 - Research Center for Enzymology of Protein Folding, Max-Planck Institute, Halle, DEU; 4 - Department of Biopolymers, University of Bayreuth, DEU; 5 - Seattle Structural Genomics Center for Infectious Disease, Seattle, WA, USA; 6 - Emerald BioStructures, Bainbridge Island, WA, USA

09:15  A Novel Technology Platform for the Rapid Development of Effective Vaccines against Emerging Viral Diseases
PO 04  O Kistner
Baxter Innovations GmbH, Biomedical Research Center, Orth/Donau, AUT
09:30  New Vaccine Technologies for Biodefense Applications
       PO 05  J Ulmer
       Novartis Vaccines, Cambridge, MA, USA

09:45  Update on Licensure Status of MVA-BN® (IMVANEX®/IMVAMUNE®) and
       Potential Impact on Smallpox Preparedness Plans
       PO 06  N Arndtz-Wiedemann, A Volkmann, B Petzold, and P Chaplin
       Bavarian Nordic GmbH, Martinsried, DEU

Focus Session

Q  RoBos and MoBos
   Chairs: D. Krüger (DEU) and S. Essbauer (DEU)

08:30  Discovery of a Highly Pathogenic European Hantavirus
       QO 01  DH Krüger¹, EA Tkachenko², VG Morozov³, YV Yunicheva⁴, DL Zavora⁵, G Malkin²,
               PT Witkowski¹, B Klempa¹,⁶, and TK Dzagurova²
               1 - Charité School of Medicine, Institute of Medical Virology, Berlin, DEU; 2 -
               Russian Academy of Medical Sciences, Chumakov Institute of Poliomyelitis and
               Viral Encephalitides, Moscow, RUS; 3 - Medical State University, Samara, RUS; 4 -
               Anti-Plague Stations, Sochi, RUS; 5 - Infectious Diseases Hospital, Sochi, RUS; 6 -
               Slovak Academy of Sciences, Institute of Virology, Bratislava, SVK

08:55  Infection of Pulmonary Epithelial Cells with Hantaviruses
       QO 02  E Krautkrämer, A Müller, V Bollinger, and M Zeier
               University of Heidelberg, Department of Nephrology, Heidelberg, DEU

09:10  Risk Perception of Vector-borne Diseases in Europe.
       The Case of Hantavirus in Germany, Finland and France
       QO 03  KM Dressel
               sine-Institut gGmbH, Risk Research, Munich, DEU

09:25  Human Hantavirus Infections in West Africa – An Unrecognised Public
       Health Problem?
       QO 04  PT Witkowski¹, B Klempa¹,², B Auste¹, NL Ithete³, L Koivogui⁴, E Fichet-Calvet⁵, S
               Weiss⁶, E Couacy-Hymann⁷, CG Akoua-Koffi⁸, JF Drexler⁹, C Drosten⁹, W Preiser³,
               FH Leendertz⁵, and DH Krüger¹
               1 - Charité School of Medicine, Inst. of Medical Virology, Berlin, DEU; 2 - Slovak
               Academy of Sciences, Inst. of Virology, Bratislava, SVK; 3 - Stellenbosch University,
               Div. of Medical Virology, Stellenbosch, ZAF; 4 - University of Conakry, VHF Project,
               Conakry, GIN; 5 - Bernhard Nocht Institute for Tropical Medicine, Hamburg, DEU;
               6 - Robert Koch Institute, Berlin, DEU; 7 - LANADA, Bingerville, CIV; 8 - Institut
               Pasteur de Côte d Ivoire, Dept. of Epidemic Viruses, Bouaké, CIV; 9 - Univ. of Bonn
               Medical Center, Inst. of Virology, Bonn, DEU

(Session Q is continued on next page)
**Are Rodents Carriers of Zoonotic Pathogens in Military Camps in Afghanistan?**

M Schlegel¹, K Baumann¹, A Breithaupt², A Binder³, U Schotte³, S Ruhl³, C Krohnmann³, SS Essbauer⁴, D Frangoulidis⁴, P Kayßer⁴, H Meyer⁴, JM Riehm⁴, R Wölfel⁴, M Faulde⁵, J Lewitzki⁶, S Sauer⁶, JP Teifke⁷, and RG Ulrich¹

1 - Friedrich-Loeffler-Institut, Institute for Novel and Emerging Infectious Diseases, Greifswald-Insel Riems, DEU; 2 - Friedrich-Loeffler-Institut, Dept of Experimental Animal Facilities and Biorisk Management, Greifswald-Insel Riems, DEU; 3 - Central Institute of the Bundeswehr Medical Service Kiel, Dept of Veterinary Medicine, Kronshagen, DEU; 4 - Bundeswehr Institute of Microbiology, Munich, DEU; 5 - Central Institute of the Bundeswehr Medical Service Koblenz, Dept of Medical Entomology/Zoology, Koblenz, DEU; 6 - Central Institute of the Bundeswehr Medical Service München, Garching-Hochbrück, DEU

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**Recombinant Vaccinia MVA Expressing E and prM/M Proteins of West Nile Virus for Vaccine Generation**

M Kaserer¹, A Volz¹, S Jany¹, S Lim², B Martina², and G Sutter¹

1 - Institute for Infectious Diseases and Zoonoses, Munich, DEU; 2 - Viroscience Lab, Erasmus Medical Center, Rotterdam, NLD

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**Low Dose Immunization with Modified Vaccinia Virus Ankara Induces Rapid In vivo Expansion of Protective CD8+ T Cells**

A Volz¹, S Jany¹, MH Lehmann¹, U Kalinke², and G Sutter¹

1 - Institute for Infectious Diseases and Zoonoses, Munich, DEU; 2 - Institute for Experimental Infection Research, Hannover, DEU

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**Genetic Determinants of Junin Virus Attenuation**

AV Seregin, NE Yun, AL Poussard, and S Paessler

Galveston National Laboratory, Department of Pathology, University of Texas Medical Branch, Galveston, TX, USA

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**Update on the Development of Tecovirimat as a Smallpox Therapeutic**

DW Grosenbach, A Berhanu, J Chinsangaram, KM Honeychurch, A Frimm, JM Leeds, S Tyavanagimatt, and DE Hruby

SIGA Technologies, Inc., Corvallis, OR, USA
11:30 Lessons from \textit{In vitro} Selection and Characterization of Orthopoxviruses Resistant to ST-246: ST-246 is the Key and F13L the Lock  
S Duraffour\textsuperscript{1}, G Zöller\textsuperscript{2}, MM Lorenzo\textsuperscript{3}, DE Hruby\textsuperscript{4}, D Topalis\textsuperscript{1}, DW Grosenbach\textsuperscript{4}, G Andrei\textsuperscript{1}, R Snoeck\textsuperscript{1}, R Blasco\textsuperscript{3}, and H Meyer\textsuperscript{2}  
\textsuperscript{1} - Rega Institute, Laboratory of Virology and Chemotherapy, Leuven, BEL; \textsuperscript{2} - Bundeswehr Institute of Microbiology, Munich, DEU; \textsuperscript{3} - INIA, Departamento de Biotecnología, Madrid, ESP; \textsuperscript{4} - SiGA Inc., Corvallis, OR, USA

11:45 Broad Spectrum Antiviral - DEF201 - A Review of \textit{In vivo} Efficacy for Arena, Bunya, Corona, Filo, Flavi, Orthopox, and Togavirus Infections and Safety Studies  
JE Ennis and JD Turner  
\textit{Defyrus Inc}, Toronto, CAN

Focus Session

S

RoBos and MoBos II

\textit{Chairs: D. Krüger (DEU) and S. Essbauer (DEU)}

10:30 Pathogen Hunting in Germany: The Network “Rodent-borne pathogens”  
SO 01 RG Ulrich  
\textit{Friedrich-Loeffler-Institut, Institute for Novel and Emerging Infectious Diseases, Greifswald –Insel Riems, DEU}

SO 02 H Jöst  
\textit{Bernhard Nocht Institute for Tropical Medicine, Virology, Hamburg, DEU}

11:20 Arboviruses Surveillance to Increase Our Knowledge on Their Circulation and Possible Emergence  
SO 03 I Leparc-Goffart\textsuperscript{1}, S Zouhair\textsuperscript{2}, V Caro\textsuperscript{3}, V Monteil\textsuperscript{1}, P Despres\textsuperscript{3}, V Cao-Lormeau\textsuperscript{4}, O Flusin\textsuperscript{1}, S Plumet\textsuperscript{1}, and C Prat\textsuperscript{1}  
\textsuperscript{1} - Institut de Recherche Biomédicale des Armées, Expertise, Marseille, FRA; \textsuperscript{2} - Inspection du Service de Santé des Forces Armées Royales, Rabat, MAR; \textsuperscript{3} - Institut Pasteur Paris, Paris, FRA; \textsuperscript{4} - Institut Malarde, French Polynesia, FRA
CP 01  A New RealTime PCR Method with an Internal Amplification Control for High Throughput Detection of *Brucella* spp.
M Ancora¹, A Di Provvido², A Polci³, K Zilli¹, R De Santis⁵, F Lista⁵, E Di Giannatale⁴, and C Camma¹
1 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Research & Development Department, Teramo, ITA; 2 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Diagnostic Department (Microbiology), Teramo, ITA; 3 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Exotic Viral Diseases Department, Teramo, ITA; 4 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Bacteriology Unit, Teramo, ITA; 5 - Army Medical and Veterinary Research Center, Histology and Molecular Biology Section, Roma, ITA

CP 02  Diagnostics, Treatment and Prophylaxis of Malaria in Travellers in Sub-Saharan Africa - A Short Crush Course for Military Health Personnel
A Berg¹,²
1 - Stavanger University Hospital, Infectious Diseases, Stavanger, NOR; 2 - Norwegian Armed Forces, RDOIT, Stavanger, NOR

CP 03  A Microfluidic Platform Utilizing Enzymatic Assays for Lab-Free Pathogen Detection
R Klemm¹, N Hlawatsch¹, S Julich², S Schattschneider¹, H Becker¹, H Tomaso², and C Gärtner¹
1 - microfluidic ChipShop GmbH, Jena, DEU; 2 - Friedrich-Loeffler-Institut, Bundesforschungsinstitut für Tiergesundheit, Institut für bakterielle Infektionen und Zoonosen, Jena, DEU

CP 04  Development and Validation of Four Species-Specific (*Brucella abortus*, *B. melitensis*, *B. suis* and *B. canis*) and a Genus-Specific Real-Time PCR Assay Including All Known Species and Biovars of *Brucella*
R Kaden¹, S Ferrari¹, S Bäckman³, M Lindberg³, A Lundin Zumpe³, and T Wahab⁴
1 - National Veterinary Institute SVA, Bacteriology, Uppsala, SWE; 2 - Swedish Defense Research Agency FOI, Umeå, SWE; 3 - National Food Agency SLV, Uppsala, SWE; 4 - Swedish Institute for Communicable Disease Control SMI, Stockholm, SWE

CP 05  Establishment of a National Laboratory Network to Ensure Diagnostics of Bioterrorism-Relevant Agents (NaLaDiBa)
K Keeren¹, M Panning², N Derakshani³, M Hermann-Pietsch³, M Elschnier⁴, M Eiden⁵, J Schmidt-Chanasit⁶, M Eickmann⁷, C Drosten⁸, M Monazahian⁹, B Hülseweh¹⁰, S Schmoldt¹¹, S Hörmansdorfer¹², R Oehme¹³, and A Nitsche¹
1 - Robert Koch-Institute, ZBS 1, Berlin, DEU; 2 - University Hospital, Virology, Freiburg, DEU; 3 - Federal Office of Civil Protection and Disaster Assistance, Bonn, DEU; 4 - Friedrich Loeffler Institute, Jena, DEU; 5 - Friedrich Loeffler Institute, Greifswald/Riems, DEU; 6 - Bernhard Nocht Institute, Hamburg, DEU; 7 - Philipp
University, Virology, Marburg, DEU; 8 - University Hospital, Virology, Bonn, DEU; 9 - Lower Saxony State Health Office, Hannover, DEU; 10 - Bundeswehr Research Institute for Protective Technologies and NBC Protection (WIS), Munster, DEU; 11 - Bundeswehr Institute of Microbiology, Munich, DEU; 12 - Bavarian Health and Food Safety Authority, Oberschleißheim, DEU; 13 - Baden-Württemberg State Health Office, Stuttgart, DEU

CP 06 Food-borne Outbreaks in the German Armed Forces - A Norovirus Case Report
CE Kilb and GC Kreienbrink
Bundeswehr, ÜbwStÖRASanDStBw Ost, Weißenfels, DEU

CP 07 Multiplex Real Time PCR to Differentiate Smallpox and Other Vesicular/Pustular Illnesses
EV Gavrilova, NI Denisova, TV Tregubchak, RA Maksyutov, and SN Shchelkunov
State Research Center of Virology and Biotechnology «Vector», Koltsovo, Novosibirsk Region, RUS

CP 08 Updated Real-Time PCR Assay for Specific Detection of Cowpox Virus
RA Maksyutov, EV Gavrilova, H Meyer, and SN Shchelkunov
1 - State Research Center of Virology and Biotechnology «Vector», Koltsovo, Novosibirsk Region, RUS; 2 - Bundeswehr Institute of Microbiology, Muenchen, DEU

CP 09 New Route for Direct Screening of Multiple Zoonotic Pathogens in Serum Samples
1 - TU Munich, Institute of Hydrochemistry and Chair for Analytical Chemistry, Munich, DEU; 2 - LMU Munich, Institute of Food Science, Department of Veterinary Sciences, Oberschleißheim, DEU; 3 - Mikrogen GmbH, Neuried, DEU

CP 10 Galleria mellonella, a Host Model for Highly Pathogenic Bacteria
F Neulat-Ripoll, N Sprynski, FV Biot, and E Valade
IRBA, Brétigny-sur-Orge, FRA

CP 11 Development of Differential and Broad Spectrum Immunological Reagents for Identification and Characterisation of Filovirus Sub-Types
KS Richards, C Bruce, L Easterbrook, H Love, L Hudson, K Steeds, N Cook, H Tolley, E Newman, S Dowall, V Graham, AD Roberts, and R Hewson
Public Health England - Porton Down, High Containment Microbiology, Salisbury, GBR

CP 12 Effects of Various Decontamination Regimes on DNA-based Forensic Analysis Methods
JM Robertson
FBI Laboratory, CFSRU, Quantico, VA, USA
CP 13  The Design and Certification of Biosafety Level 3 Laboratories in Developing Countries - Durum Patientia Frangit
S Sezigen¹, L Kenar², and M Ortatatlı²
1 - Turkish General Staff, Dept. of Health, Ankara, TUR; 2 - Gulhane Military Medical Academy, Dept. of Medical CBRN Defense, Ankara, TUR

CP 14  Application of FTA Databasing Cards for Collection, Purification and Storage of PCR-Ready DNA of Yersinia pestis
A Trukhachev¹, S Lebedeva¹, E Vasilieva¹, T Arsenieva¹, I Morozova¹, D Kuznecova¹, and A Rakin³
1 - Antiplague Research Institute, Microbiology of Yersinia, Rostov-on-Don, RUS; 2 - Max von Pettenkofer-Institute, Munich, DEU

CP 15  Reactivation of IgM Antibodies against Yellow Fever Virus in a Vaccinated Traveler Following Secondary Dengue Virus Infection
P Vollmar¹, J Borde², M Ruhnke², BR Thoma¹, S Wölfel¹, and S Schmoldt¹
1 - Bundeswehr Institute of Microbiology, Munich, DEU; 2 - Orthenau Klinikum Achern, Achern, DEU

CP 16  Modern Diagnostic Potential of Respiratory Virus Detection Test Using One Step Seeplex RV 15 ACE Detection
A Woźniak-Kosek¹, I Paradowska-Stankiewicz², and LB Brydak¹,³
1 - National Institute of Public Health-National Institute of Hygiene, Dept. of Influenza Research, National Influenza Centre, Warsaw, POL; 2 - National Institute of Public Health-National Institute of Hygiene, Dept. of Epidemiology, Warsaw, POL; 3 - Univ. of Szczecin, Faculty of Biology, Dept. of Immunology, Szczecin, POL

EP 01  Emerging of Crimean-Congo Hemorrhagic Fever (CCHF) in Georgia
G Babuadze, N Mamuchishvili, T Chikviladze, G Chakhunashvili, G Chanturia, N Tsertsvadze, and P Imnadze
National Center for Disease Control and Public Health (NCDC), GEO

EP 02  Epidemiology and Detection of Norovirus in Military Facilities in Germany and in Kosovo
A Binder, H Tandler, W Pöllein, and U Schotte
Central Institute of the Bundeswehr Medical Service Kiel, Infectious Animal Diseases and Zoonoses, Kronshagen, DEU

EP 03  Prevalence and Seasonality of Anaplasma phagocytophilum in Questing Ixodes ricinus in Southern Germany: A Five-Year Follow-up Study
A Gomez-Chamorro, K Pfister, and C Silaghi
Comparative Tropical Medicine and Parasitology, Ludwig-Maximilians Universität München, Veterinary sciences, Munich, DEU
EP 04  An Outbreak of Sheep Pox in Zabajkalskij Kray of Russia
RA Maksyutov1, EV Gavrilova1, AP Agafonov1, OS Taranov1, AG Glotov2, VN Miheev1, SN Shchelkunov1, and AN Sergeev1
1 - State Research Center of Virology and Biotechnology «Vector», Koltsovo, Novosibirsk Region, RUS; 2 - Institute of Experimental Veterinary Science of Siberia and the Far East, Krasnoobsk, Novosibirsk Region, RUS

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MS McConnell
University of New Mexico, Biology, Albuquerque, NM, USA

EP 06  Hepatitis E Seroprevalence in Austrian Adults: A Nationwide Cross-Sectional Study Among Civilians and Military Professionals
AG Obwaller1, H Lagler2, W Poeppl1, A Faas3, G Mooseder4, W Graninger2, and H Burgmann1
1 - Division of Science, Research and Development, Federal Ministry of Defence and Sports, Vienna, AUT; 2 - Division of Infectious Diseases and Tropical Medicine, Department of Medicine I, Medical University, Vienna, AUT; 3 - Institute for Medical Support, Military Hospital, Vienna, AUT; 4 - Department of Dermatology and Tropical Medicine, Military Hospital, Vienna, AUT

EP 07  Emergence of Multidrug Resistance Genomic Island SGI1 in Proteus mirabilis in Humans and Animals in France
E Schultz1,2, J Madec3, M Haenni3, A Cloeckaert1,2, and B Doublet1,2
1 - INRA, UMR 1282 Infectiologie et Santé Publique, Nouzilly, FRA; 2 - Université François Rabelais de Tours, UMR 1282 Infectiologie et Santé Publique, Tours, FRA; 3 - Anses, Unité Antibiorésistance et Virulence Bactériennes, Lyon, FRA

EP 08  Epidemiological Manifestations of CCHF in Kazakhstan
JJ Shapiyeva1, KK Kyraubayev1, AM Dmitrovskiy2, ES Utegenova1, U Usenov1, MB Shermetova3, AR Kuzmina4, and EA Pak5
1 - Scientific Practical Center for Sanitary-Epidemiological Expertise and Monitoring, Almaty, KAZ; 2 - Kazakh National Medical University, Almaty, KAZ; 3 - International Kazakh-Turkisn University, Turkestan, KAZ; 4 - Turkestan Sanitary-Epidemiological Dept, Turkestan, KAZ; 5 - Taraz city Infectious hospital, Taraz, KAZ

IP 01  A Biosafety and Biosecurity Program for Highly Pathogenic Pathogens in Mbeya, Tanzania
G Dobler1, P Clowes2, M Hölscher3, and N Heinrich3
1 - Bundeswehr Institute of Microbiology, Dept of Virology and Rickettsiology, Munich, DEU; 2 - Mbeya Medical Research Centre, Mbeya, TZA; 3 - Hospital of the University, Dept of Infectious Diseases and Tropical Medicine, Munich, DEU
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SS Essbauer\(^1\), AM Dmitrovskiy\(^2\), S Frey\(^1\), G Dobler\(^1\), RA Egemberdiyeva\(^2\), and Z Shapiyeva\(^3\)

1 - Bundeswehr Institute of Microbiology, Virology & Rickettsiology, Munich, DEU; 2 - Kazakh National Medical University, Almaty, KAZ; 3 - Scientific Practical Center for Sanitary-Epidemiological Expertise and Monitoring, Almaty, KAZ

**IP 03** Estimating Casualties from Battlefield Exposure to Biological Agents

AC Kelley, SM Oxford, CA Curling, and JK Burr

_Institute for Defense Analyses, SFRD, Alexandria, VA, USA_

**IP 04** Cleaning up Afterwards. The UK Recovery Handbook for Biological Incidents

T Pottage\(^1\), E Goode\(^1\), S Wyke\(^2\), S Speight\(^1\), and A Bennett\(^1\)

1 - Public Health England, Research, Salisbury, GBR; 2 - Centre for Radiation, Chemicals and Environmental Hazards, Public Health England, Didcot, GBR

**IP 05** Biosecurity: Dual-use is Everywhere - A Novel Code of Conduct for Biological Resource Centres

C Rohde

_Leibniz-Institut DSMZ, Microorganisms, Braunschweig, DEU_

**IP 06** Putting Biosecurity into Practice: The German Partnership Program for Excellence in Biological and Health Security

C Uhlenhaut\(^1\) and J Bonin\(^2\)

1 - Robert Koch-Institut, IBBS, Berlin, DEU; 2 - Gesellschaft fuer Internationale Zusammenarbeit, GIZ, Berlin, DEU

**JP** Finding the Poison

**JP 01** The Detection of Ricin via Carbohydrate Binding in an Automated Detection System

M Huebner, R Niessner, and M Seidel

_Technische Universität München, Chemistry, München, DEU_

**JP 02** Automated Regenerable Microarray-Based Immunoassay for Multi-Mycotoxin Determination

D Knopp\(^1\), S Oswald\(^1\), R Dietrich\(^2\), E Märtelbauer\(^2\), and R Niessner\(^1\)

1 - Chair of Analytical Chemistry, TUM, Chemistry, München, DEU; 2 - Chair of Hygiene and Technology of Milk, LMU, Veterinary Medicine, München, DEU
**JP 03** Targeted Proteomic Analysis of Ricin
A Fucikova¹, J Dresler², D Jun³, Z Krocova¹, A Macela¹, M Schmidt³, and J Stulík¹
1 - Faculty of Military Health Sciences, Institute of Molecular Pathology, Hradec Králové, CZE; 2 - Central Military Health Institute, Prague, CZE; 3 - Faculty of Military Health sciences, Centre of Advanced Studies, Hradec Králové, CZE

**JP 04** Possible Causes of Intestinal Microbiota Dysbiosis and Emerging of Chronic Botulism
AA Shehata and M Krüger
Leipzig University, Institute of Bacteriology and Mycology, Leipzig, DEU

**JP 05** Immunological and Enzymatic Determination of Ricin, Abrin and Modeccin in Beverages, Food and Consumer Products
M Weber
Zentrales Institut des Sanitätsdienstes der Bundeswehr München, Laborgruppe Chemie der Gifte / Kampfstoffanalytik, Munster, DEU

**JP 06** Simultaneous Detection of Different Molecular Weight Botoxins Using a Flow-through Chemiluminescence Portable Microarray Analysis Platform
EM Linares¹, A Szkola¹, BG Dorner², R Dietrich³, E Märtlbauer³, R Niessner¹, and M Seidel¹
1 - TU München, Chair for Analytical Chemistry & Institute of Hydrochemistry, Munich, DEU; 2 - ZBS 3, Biological Toxins, Robert-Koch-Institute, Berlin, DEU; 3 - LMU München, Chair of Hygiene and Technology of Milk, Oberschleißheim, DEU

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**Free Papers**

**KP 01** Phages with Lytic Activity Against Enteroaggregative *Escherichia coli*: A Typing Tool and Potential Treatment Option
KE Anhalt, SI Hauswaldt, C Dracopoulos, W Solbach, and JK Knobloch
Institute for Medical Microbiology and Hygiene, University of Lübeck, Lübeck, DEU

**KP 02** Comparison of Host Range of Environmental Bacteriophages and Their Endolysins Against Enterohemorrhagic *Escherichia coli* Strains
A Nakonieczna, L Mizak, S Parasion, M Kwiatek, and R Gryko
Military Institute of Hygiene and Epidemiology, Pulawy, POL

**KP 03** Cellular Biometal Contents of Highly Pathogenic Biothreat Agents Do Not Differ from Non-Pathogenic Organisms
M Herzberg¹, L Bauer¹, P Bleichert², G Grass², S Riemschneider³, D Dobritzsch⁴, and DH Nies¹
1 - Martin-Luther-Universität, Institut of Microbiology, Halle, DEU; 2 - Bundeswehr Institute of Microbiology, Munich, DEU; 3 - Fraunhofer IZI, cell engineering / GLP, Leipzig, DEU; 4 - Martin-Luther-Universität, Plant Biochemistry, Halle (Saale), DEU
KP 04 Epidemiology of Adenoviruses Among Finnish Military Conscripts  
M Mölsä¹, H Hemmilä², A Harberg³, E Rönkkö⁴, M Virkk⁵, S Nikkari⁶, and T Ziegler²  
¹ - Centre for Military Medicine and for Biological Threat Preparedness, Helsinki, FIN; ² - National Institute for Health and Welfare (THL), Virology Unit, Helsinki, FIN; ³ - Social- and Health Services of the City of Lahti, Lahti, FIN

KP 05 Results of Surveillance for Cholera in Ukraine in 2012  
N Pidchenko¹, N Shvarsalon¹, L Zinich², and M Shvarsalon²  
¹ - Public Institution "Ukrainian Anti-Plague Station of Ministry of Health of Ukraine", Bacteriological, Simferopol, UKR; ² - Public Institution "Ukrainian Anti-Plague Station of Ministry of Health of Ukraine", Epidemiological, Simferopol, UKR

KP 06 Rapid Diagnosis of Noninfectious Diseases of Liver and Heart  
KV Generalov¹, VM Generalov², AS Safatov², AN Sergeev², GA Buryak², MV Kruchinina³, AA Gromov³, and SA Kurilovich³  
¹ - FSRI SRC VB "Vector", Koltsovo, Teleinformatics, Koltsovo, Novosibirsk rgn, RUS; ² - FSRI SRC VB "Vector", Koltsovo, Biophysics and Ecological Researches, Koltsovo, Novosibirsk rgn, RUS; ³ - City Center for trombose prophylaxis and healing, Novosibirsk, RUS

KP 07 The Course of Respiratory Infection in Animals Challenged with Monkeypox Virus  
AA Sergeev¹, AS Kabanov¹, AA Sergeev¹, OS Taranov¹, SA Bodnev¹, LE Bulychev¹, and AN Sergeev²  
¹ - SRC VB "Vector", Collection of microorganisms, Koltsovo, RUS; ² - SRC VB "Vector", General director, Koltsovo, RUS

KP 08 Comparative Measurements of Bacteria and Moulds in Indoor Air  
SM Walser¹, B Brenner¹, C Tuschak², L Gerber², S Hörmansdorfer³, and CE Herr¹  
¹ - Bavarian Health and Food Safety Authority (LGL), Occupational and Environmental Health, Epidemiology, Munich, DEU; ² - Bavarian Health and Food Safety Authority (LGL), Hygiene, Oberschleissheim, DEU; ³ - Bavarian Health and Food Safety Authority (LGL), Infectiology, Oberschleissheim, DEU

KP 09 A Statistical Method of the Assessment of Model Adequacy of Admixture Distribution in the Boundary Air Layer  
VA Zhukov¹,², BM Desyatkov², and NA Lapteva²  
¹ - JSC Vector-Best, IT, Koltsovo, RUS; ² - SRC VB Vector, Biophysics and Ecology, Koltsovo, RUS

KP 10 Some Secrets are Revealed: Extraordinary Endocytobiont in Free-living Amoebae Isolated from the Contact Lens Storage Cases of a Keratitis Patient Turned Out To be a Pandoravirus  
P Scheid¹, B Hauröder², C Balczun³, K Stöcker⁴, and R Michel¹  
¹ - Laboratory of Medical Parasitology, Central Institute of the Bundeswehr Medical Service, Koblenz, DEU; ² - Laboratory of Electron Microscopy, Central Institute of the Bundeswehr Medical Service, Koblenz, DEU; ³ - Dept of Animal Ecology, Evolution and Biodiversity, Faculty of Biology and Biotechnology, Ruhr-University, Bochum, DEU; ⁴ - Bundeswehr Institute of Microbiology, Munich, DEU
LP 01  **Rapid and Efficient Filtration-Based Procedure for Separation and Safe Handling of CBRN Mixed Samples**  
M Bentahir\(^1\), F Laduron\(^2\), L Irenge\(^3\), and JL Gala\(^1,3\)  
1 - *Biothreats Unit, Defense Laboratories Department (DLD), Belgian Armed Forces, Brussels, BEL*; 2 - *Chemical Analysis Laboratory, Defense Laboratories Department (DLD), Belgian Armed Forces, Brussels, BEL*; 3 - *Centre de Technologies Moléculaires Appliquées, Institut de Recherche Expérimentale et Clinique, Université Catholique de Louvain, Brussels, BEL*

LP 02  **Field Capable Crimean-Congo Haemorrhagic Fever Diagnostic Assays for Outbreak Response Activities**  
A Bosworth\(^1\), B Atkinson\(^1\), J Chamberlain\(^1\), E Newman\(^1\), S Dowall\(^1\), R Wölfel\(^2\), K Stöcker\(^2\), and R Hewson\(^1\)  
1 - *Public Health England, Virology & Pathogenesis, Porton Down, GBR*; 2 - *Bundeswehr Institute of Microbiology, Bio-Reconnaissance, Munich, DEU*

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1 - *National Veterinary Institute, Uppsala, SWE*; 2 - *Swedish Defence Research Agency, Umeå, SWE*

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T Hillebrand\(^1\), J Weber\(^1\), B Appel\(^2\), and JA Hammer\(^2\)  
1 - *Analytik Jena AG, Jena, DEU*; 2 - *Federal Institute for Risk Assessment, Biological Safety, Berlin, DEU*

LP 05  **A New Route to Concentrate Viruses in Large-Volume Drinking Water Samples**  
A Kunze, L Pei, M Rieger, R Niessner, and M Seidel  
*Institute for Hydrochemistry, Chair for Analytical Chemistry, Technische Universität, Munich, DEU*

LP 06  **Test Series for Evaluation of Disinfectants**  
GM Nicolaelsen and NR Steenhar  
*Statens Serum Institut, Centre for Biosecurity and Biopreparedness, Copenhagen, DNK*

LP 07  **Rapidly Deployable Outbreak Investigation Team (RDOIT): The Norwegian Defense Approach**  
Ø Olsvik\(^1\), P Ballangrud\(^1\), O Schøel\(^1\), and D Hjelle\(^2\)  
1 - *Norwegian Defence, Microbiological Institute, Oslo, NOR*; 2 - *NOR Armed Forces, Medical Services, Oslo, NOR*
LP 08 Automated and Multiplex Detection of Bioterroristic-relevant Bacteria with the Portable Toxin Detector – An Addressable Biochip for Oriented Immobilization of Antibodies
C Pöhlmann and T Elßner
Bruker Daltonik GmbH, Application CBRNE, Leipzig, DEU

LP 09 Recovery Efficiencies of Bovine Serum Albumin
N Sparding¹, H Slotved², GM Nicolaisen¹, SB Giese¹, J Elmlund¹, and NR Steenhard¹
1 - Statens Serum Institut (SSI), Centre for Biosecurity and Biopreparedness (CBB), Copenhagen, DNK; 2 - Statens Serum Institut (SSI), Microbiology and Infection Control, Copenhagen, DNK

LP 10 Comparison of Loop-Mediated Isothermal Amplification and Quantitative Real-Time PCR for Identification of Bacillus in the Field
N Sparding¹, C Hilby², P Ahrens², and NR Steenhard¹
1 - Statens Serum Institut (SSI), Centre for Biosecurity and Biopreparedness (CBB), Copenhagen, DNK; 2 - Statens Serum Institut (SSI), Microbiology and Infection Control, Copenhagen, DNK

NP 01 New Signal-Processing Method for Multiplex Pyrosequencing Results Analysis
J Ambroise¹, Y Deccache², L Irenge², and JL Gala¹,²
1 - Institut de Recherche Expérimentale et Clinique (IREC), Center for Applied Molecular Technologies (CTMA), Brussels, BEL; 2 - Belgian Armed Forces, Defence Laboratories Department, Brussels, BEL

NP 02 Molecular Typing and Epidemiological Correlation of Brucella abortus Isolates from Abruzzo and Molise Regions (Italy)
M Ancora¹, R De Santis², F De Massis³, M Maracci¹, K Zilli⁴, E Di Giannatale⁴, and C Camma¹
1 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Research & Development Dept, Teramo, ITA; 2 - Army Medical and Veterinary Research Center, Histology and Molecular Biology Section, Roma, ITA; 3 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, National Reference Center for Vet. Epidemiology, Teramo, ITA; 4 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Bacteriology, Teramo, ITA

NP 03 Genome Sequence of a Novel Lysinibacillus-like Bacillus Strain (BF-4) Isolated During an Anthrax Outbreak 2009 in Germany
MH Antwerpen¹, E Georgi¹, P Zimmermann¹, S Hörmansdorfer², H Meyer¹, and G Grass¹
1 - Bundeswehr Institute of Microbiology, Munich, DEU; 2 - Bavarian Health and Food Safety Authority (LGL), Oberschleißheim, DEU
NP 04  Genotypic Expansion within the Population Structure of Classical Brucella Species Revealed by MLVA-16 Typing of 1414 Brucella Isolates from Different Animal and Geographic Origins, 1974-2006
MS Zygmunt1,2, C Pourcel3,4, Y Hauck3,4, C Tourterel3,4, I Jacques1,2,5, G Vergnaud3,4,6, and A Cloeckaert1,2
1 - INRA Centre Val de Loire, UMR 1282, Infectiologie et Santé Publique, Nouzilly, FRA; 2 - Université François Rabelais de Tours, UMR1282 Infectiologie et Santé Publique, Tours, FRA; 3 - Univ Paris-Sud, Institut de Génétique et Microbiologie, UMR 8621, Orsay, FRA; 4 - CNRS, Orsay, FRA; 5 - IUT de Tours, Tours, FRA; 6 - Institut de Recherche Biomédicale des Armées, Brétigny, FRA

NP 05  Metagenomic Analysis Using Long 16S Amplicons and the Roche 454 GS FLX+ Platform
A Dangel, O Rücker, and S Kotschote
IMGM Laboratories GmbH, Martinsried, DEU

NP 06  Variola Virus in Historical Samples from the National Museum of Prague
P Pajer1, J Dresler1, H Kabičková1, K Vítěžslav2, P Vellemínsky2, J Klimentova3, J Stulík3, J Pejchal3, D Elleder4, V Beneš5, H Meyer6, P Dundr7, M Hubálek8, and L Piša1
1 - Military Health Institute, Prague, CZE; 2 - National Museum, Prague, CZE; 3 - Faculty of Military Health Sciences, UoD, Hradec Králové, CZE; 4 - Institute of Molecular Genetics AS CR, Prague, CZE; 5 - Genomics Core Facility, EMBL, Heidelberg, DEU; 6 - Bundeswehr Institute of Microbiology, Munich, DEU; 7 - 1st Fac. of Medicine UK, Prague, CZE; 8 - State Office for Nuclear Safety, Prague, CZE

NP 07  Automated Annotation of Bacterial 16S Sequences to the Species Level Using the SmartGene Centroid Approach
S Emler1 and G Bloemberg2
1 - SmartGene, Zug, CHE; 2 - Institut für Med. Mikrobiologie, Universitätsklinik Zürich, Zürich, CHE

NP 08  A Hierarchical Approach to MALDI-TOF Mass Spectra Analysis is Resolving Strains of a Glanders Outbreak Beyond the Species Level
E Georgi1, RN Stock1,2, GH Genzel1, S Schmoldt1, and HC Scholz1
1 - Bundeswehr Institute of Microbiology, Munich, DEU; 2 - Central Institute of the Bundeswehr Medical Service, Berlin, DEU

NP 09  Complete Nucleotide Sequence of the Virulent Brucellaphage F1
JA Hammerl, S Al Dahouk, K Nöckler, J Reetz, C Göllner, B Appel, and S Hertwig
Federal Institute for Risk Assessment, Biological Safety, Berlin, DEU

NP 10  German Enteroaggregative Escherichia coli: Analysis of Clonal Relatedness
SI Hauswaldt1, C Dracopoulos1, M Kalitzky2, W Solbach1, AC Rodloff3, and JK Knobloch1
1 - Institute for Medical Microbiology and Hygiene, Lübeck, DEU; 2 - Ärztliche Praxisgemeinschaft Hameln, Mikrobiologie, Hameln, DEU; 3 - Institute for Medical Microbiology, Leipzig, DEU
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<td>1 - Julius Kühn-Institut, Institute for Epidemiology and Pathogen Diagnostics, Braunschweig, DEU; 2 - University of Szeged, Faculty of Dentistry, Szeged, HUN</td>
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<td></td>
<td>1 - Histology and Molecular Biology Section, Army Medical Research Center, Rome, ITA; 2 - National Reference Center for Botulism, Department of Veterinary Public Health and Food Safety, Istituto Superiore di Sanità, Rome, ITA</td>
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### Case Reports

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<td></td>
<td>1 - Innsbruck Medical University, Hygiene and Microbiology, Innsbruck, AUT; 2 - Austrian Agency for Health and Food Safety (AGES), Innsbruck, AUT; 3 - Innsbruck Medical University, Dermatology and Venereology, Innsbruck, AUT; 4 - Bavarian Health and Food Safety Authority, LGL, Oberschleissheim, DEU</td>
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<td>1 - Riga East University Hospital, Latvian Centre of Infectious Diseases, National Microbiology References laboratory, Riga, LVA; 2 - Centre for Disease Prevention and Control of Latvia, Epidemiology, Riga, LVA</td>
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<td>1 - Bundeswehr Institute of Microbiology, Munich, DEU; 2 - Dr. Gärtner &amp; Colleagues Laboratory, Ravensburg, DEU; 3 - Hospital Erding, Erding, DEU</td>
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**Medical Countermeasures: State of the Developmental Pipeline**

**PP 01** *Burkholderia thailandensis*: A Model for the Study of Efflux Expression and Inhibition  
FV Biot¹, F Neulat-Ripoll¹, MM Lopez¹, T Poyot², S Forcet³, FM Thibault³, A Peinnequin³, J Pages³, and E Valade¹,⁵  
1 - Institut de Recherche Biomédicale des Armées, Dépt de Microbiologie / UMR-MD1, Brétigny-sur-Orge, FRA; 2 - Institut de Recherche Biomédicale des Armées, Pôle de génomique, Brétigny-sur-Orge, FRA; 3 - Institut de Recherche Biomédicale des Armées, Unité Expertise Biologique, Brétigny-sur-Orge, FRA; 4 - Aix Marseille Université, UMR-MD1, Marseille, FRA; 5 - Ecole du Val-de-Grâce, Paris, FRA

**PP 02** Development of Aerosol Models of Infection at Public Health England Using *Burkholderia pseudomallei*  
SG Funnell, GJ Hatch, SR Bate, J Kane, N Jones, H Shuttleworth, J Vipond, and AD Roberts  
Public Health England, Microbiology Services, Salisbury, GBR

**PP 03** *In vitro* Antimicrobial Activity of Finafloxacin Against *Yersinia* spp.  
GH Genzel¹, E Georgi¹, A Vente², R Schaumann³, and HC Scholz¹  
1 - Bundeswehr Institute of Microbiology, Bacteriology, Munich, DEU; 2 - MerLion Pharmaceuticals GmbH, Berlin, DEU; 3 - University of Leipzig, Leipzig, DEU

**PP 04** Genetic Modifications and Schemes of Vaccinia Virus Application with Antiviral Drugs Making Process of Vaccination in Animals More Safely  
DO Gorbatovskaya¹, AA Sergeev¹, EV Shevtsova¹, OS Taranov¹, VV Omigov¹, IV Kolosova¹, SN Yakubitskiy¹, RA Maksyutov¹, SN Schelkunov¹, VN Podkuyko², AV Kovalchuk², AP Pirojkov², SV Borisevich², and AN Sergeev¹  
1 - SRC VB Vector, Collection of microorganisms, Koltsovo, RUS; 2 - 33 CSRTI Ministry of defence RF, Sergiev Posad, RUS

**PP 05** Targeting Intracellular *Legionella* via Anti-Virulence Compounds  
CF Harrison and H Hilbi  
Max von Pettenkofer Institute, Ludwig Maximilians University, Munich, DEU

**PP 06** Antiviral and Multidrug Resistance in HCMV Infected SCT Patients and in Newborns  
G Jahn, K Göring, D Wolf, E Mikeler, and K Hamprecht  
University of Tübingen, Insitute for Medical Virology, Tübingen, DEU
| PP 07 | Programs of Prophylactic Vaccination Against Influenza Realized in Poland in Voivodship Lodz in 2006-2012  
B Kempińska-Mirosławskaa and A Woźniak-Koseka  
1 - Medicine University of Łódź, Department History of Medicine, Łódź, POL; 2 - National Institute of Public Health-National Institute of Hygiene, Department of Influenza Research, National Influenza Centre, Warsaw, POL |
| PP 08 | Vaccines Against Seasonal Influenza: Any News?  
A von Krempelhuber, J Hain, and J Vollmar  
GlaxoSmithKline Gmbh & Co KG, Medical Therapeutic Area Vaccines, Munich, DEU |
| PP 09 | Vaccination Status and Perception of Vaccination Against Influenza Among Students of Selected Universities in Poland  
A Woźniak-Koseka, B Kempińska-Mirosławskaa, M Mendryckaa, A Saracen4, E Hallmann-Szelińska1, and J Mierzejewski5  
1 - National Institute of Public Health-National Institute of Hygiene, National Influenza Centre, Warsaw, POL; 2 - Pharmacy and Military Medicine University of Łódź, Dept History of Medicine, Łódź, POL; 3 - Kazimierz Pulaski University of Technology and Humanities, Dept of Organic Materials Technology Faculty of Materials Science, Technology and Design, Radom, POL; 4 - Kazimierz Pulaski Univ. of Technology and Humanities, Fac. of Health Sciences and Physical Culture, Radom, POL; 5 - Military Institute of Hygiene and Epidemiology, Puławy, POL |
| PP 10 | Improved In vivo Model for P. aeruginosa Burn Wound Infections  
A Johansson1, E Nilsson1, E Näsland Salomonsson1, J Näslund1, Å Forsberg2, and L Noppa1  
1 - FOI-Swedish Defence Research Agency, CBRN Defence and Security, Umeå, SWE; 2 - Umeå University, Department of Molecular Biology, Umeå, SWE |
| PP 11 | Gamma-Glytamyl Transpeptidase of Francisella tularensis as Drug Target for the Development of a New Class of Anti-Infectives  
Z Sahavi-Ouriaghli1, C Bolz1, H Meyer1, MH Antwerpen2, WD Splettstoesser2,3, and M Gerhard1,3  
1 - Technical University Munich, Institute of Medical Microbiology, Immunology and Hygiene, Munich, DEU; 2 - Bundeswehr, Institute of Microbiology, Munich, DEU; 3 - German Center for Infection Research, Partner Site Munich, Munich, DEU |
| PP 12 | Identification, Cloning, Expression, and Purification of Francisella tularensis Immunogenic Proteins  
V Sheshko, D Putzova, and J Stulík  
University of Defence, Faculty of Military Health Sciences, Hradec Králové, CZE |
| PP 13 | Isoindole Derivatives and their Close Analogs Have Activity Against Variola Virus and Monkeypoxvirus and Protect Animals  
GV Vdovichenko3, LE Bulychev3, AS Kabanov3, LN Shishkina1, AA Sergeev2, YV Tumanov5, AP Agafonov5, and AN Sergeev2  
1 - SRC VB "Vector", Prevention and treatment of high dangerous infections, Koltsovo, RUS; 2 - SRC VB "Vector", Collection of microorganisms, Koltsovo, RUS; 3 - SRC VB "Vector", General director, Koltsovo, RUS |
PP 14 Broad-spectrum Compounds Active Against Toxins, Viruses and Parasites

N Gupta¹, A Michaud¹, R Noël¹, V Pons¹, D Garcia-Castillo², L Johannes², R Davey³, JC Cintrat¹, J Barbier¹, and D Gillet¹

¹ - Institute of Biology and Technology of Saclay, Atomic and Alternative Energies Commission, Gif Sur Yvette, FRA; 2 - Traffic, Signaling and Delivery, Curie Institute, Paris, FRA; 3 - Texas Biomedical Research Institute, San Antonio, TX, USA

QP 01 Establishment of PCR Microarrays for the Investigation of Different Forms of Cell Death in Neuronal Cell Lines Infected with Tick-borne Encephalitis Virus

K Brauer, P Vollmar, S Frey, G Dobler, and SS Essbauer

Bundeswehr Institute of Microbiology, Virology and Rickettsiology, Munich, DEU

QP 02 Molecular Characterization of Coxiella burnetii from Cattle and Goats in Central Italy

M Di Domenico¹, V Curini¹, F De Massis², A Di Provvido³, M Scacchia³, and Ç Camma¹

¹ - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Research & Development Department, Teramo, ITA; 2 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, National Reference Center for Veterinary Epidemiology, Teramo, ITA; 3 - Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale”, Diagnostic Department (Microbiology), Teramo, ITA

QP 03 Prophylactic of Tularemia at Endemic Territory in Kazakhstan

AM Dmitrovskiy¹, SL Filippova², GK Kazhusheva², FG Bidadsko³, EN Kozhevnikova⁴, and AZ Murzagaliyeva⁵

¹ - Kazakh National Medical University, Infectious Diseases, Almaty, KAZ; 2 - Uralsk Oblast Sanitary-Epidemiological Department, EDP, Uralsk, KAZ; 3 - Uralsk Anti-Plague station, zoologic, Uralsk, KAZ; 4 - Western-Kazakhstan Medical University, Infectious Diseases, Aktobe, KAZ; 5 - Western-Kazakhstan Medical University, Epidemiologic, Aktobe, KAZ

QP 04 Epidemiological and Clinical Manifestations of Hanta Virus Infection in the Western Kazakhstan Oblast

AM Dmitrovskiy¹, LB Belonozhkina², RA Egemberdiyeva¹, TZ Ayazbayev³, AV Zakharov⁴, AG Grazhdanov³, and AZ Murzagaliyeva⁴

¹ - Kazakh National Medical University, Infectious Diseases, Almaty, KAZ; 2 - Uralsk Anti-Plague station, Microbiologic, Uralsk, KAZ; 3 - Uralsk Anti-Plague station, Epidemiologic, Uralsk, KAZ; 4 - Western-Kazakhstan Medical University, Epidemiologic, Aktobe, KAZ
**QP 05** Epidemiological and Clinical Manifestations of Rickettsioses in Kazakhstan  
RA Yegemberdieva¹, AM Dmitrovskiy¹, JJ Shapiyeva², EN Kozhevnikova³, and EA Pak⁴  
1 - Kazakh National Medical University, Infectious Diseases, Almaty, KAZ; 2 - Scientific Practical Center of Sanitary Epidemiological Expertise and Monitoring, Parasitologic, Almaty, KAZ; 3 - Ust-Kamenogorsk Infectious hospital, Infectious Diseases, Ust-Kamenogorsk, KAZ; 4 - Taraz city Infectious hospital, Infectious Diseases, Taraz, KAZ

**QP 06** Longitudinal Trend Analysis of Lyme Borreliosis in Europe  
C Klier¹, B Liebl¹, M Wildner¹, S O’Connel², A Sing¹, and V Fingerle¹  
1 - Bavarian Health and Food Safety Authority, National Reference Centre for Borreliae, Oberschleißheim, DEU; 2 - Health Protection Agency, Lyme Borreliosis Unit, Southampton, GBR

**QP 07** No Gender-Related Differences in the Severity of Nephropathia Epidemica, Germany  
E Krautkrämer¹, S Grouls¹, E Urban¹, P Schnitzler², and M Zeier¹  
1 - University of Heidelberg, Nephrology, Heidelberg, DEU; 2 - University of Heidelberg, Virology, Heidelberg, DEU

**QP 08** Tick-borne Pathogens in Rodents and Their Ticks from Study Sites with Different Habitat Structures in Bavaria and Saxony, Germany  
A Obiegala¹, K Pfister¹, M Pfeffer², D Woll², C Karnath², and C Silaghi¹  
1 - Ludwig-Maximilians-Universität, Comparative Tropical Medicine and Parasitology, Munich, DEU; 2 - University of Leipzig, Institute of Animal Hygiene and Veterinary Public Health, Leipzig, DEU

**QP 09** Long-Term Variations of the Total Protein, Culturable Microorganisms, Organic and Inorganic Carbon in the Atmospheric Surface Layer Aerosol  
AS Safatov¹, GA Buryak¹, SE Olkin¹, IK Reznikova¹, SA Popova², and VI Makarov²  
1 - FBRI SRC VB "Vector", Biophysics and Ecological Researches, Koltsovo, Novosibirsk rgn, RUS; 2 - FSBRI Institute of Chemical Kinetics and Combustoin, SB RAS, dispersed Systems, Novosibirsk, RUS

**QP 10** Complex Species Diversity of Bartonella in Rodents and Their Fleas in a Recreational Area in the Metropolitan Area of Leipzig, Germany  
C Silaghi¹, D Woll², K Pfister¹, and M Pfeffer²  
1 - Comparative Tropical Medicine and Parasitology, Ludwig-Maximilians-Universität München, Munich, DEU; 2 - Institute for Animal Hygiene and Veterinary Public Health, University of Leipzig, Leipzig, DEU
QP 11  Molecular Detection of *Leptospira* and *Rickettsia* Infections in Small Mammals During a Monitoring Study in Germany 2010-2012
N Kratzmann\(^1\), S Schmidt\(^1\), UM Rosenfeld\(^1\), K Nöckler\(^2\), D Reil\(^3\), J Jacob\(^3\), MH Groschup\(^1\), A Mayer-Scholl\(^4\), C Kling\(^4\), SS Essbauer\(^4\), and RG Ulrich\(^1\)
1 - Friedrich-Loeffler-Institut, Institute for Novel and Emerging Infectious Diseases, Greifswald-Insel Riems, DEU; 2 - Federal Institute for Risk Assessment, Berlin, DEU; 3 - Julius Kühn-Institute, Münster, DEU; 4 - Bundeswehr Institute of Microbiology, Munich, DEU

**TP**

**Anthrax and Related Bacilli**

**TP 01**  The First Molecular Snapshot of *Bacillus anthracis* Strains Circulating in Siberia and at the Far East
MV Afanasev\(^1\), EV Kravets\(^2\), ZF Dugorzhapova\(^2\), VE Takayshvili\(^2\), and SV Balakhonov\(^3\)
1 - Irkutsk antiplague research institute, Epidemiological department, Irkutsk, RUS; 2 - Irkutsk antiplague research institute, Zoonotic infections department, Irkutsk, RUS; 3 - Irkutsk antiplague research institute, Microbiological department, Irkutsk, RUS

**TP 02**  Evidence Based Guidance on Prevention of Anthrax in People who Inject Drugs
C Bartels\(^1\), A Pharris\(^1\), A Jansen\(^1\), A Magiorakos\(^1\), and L Wiessing\(^2\)
1 - ECDC - European Centre for Disease Prevention and Control, Country Preparedness Support, Stockholm, SWE; 2 - EMCDDA - European Monitoring Centre for Drugs and Drug Addiction, Prevalence, consequences and data management (EPI) unit, Lisbon, PRT

**TP 03**  Improving Anthrax Outbreak Response Team Work in Almaty Oblast
AM Dmitrovskiy\(^1\), RB Akasheva\(^2\), GA Utepbergenova\(^3\), and RA Egemberdiyeva\(^4\)
1 - Kazakh National Medical University, Infectious Diseases, Almaty, KAZ; 2 - Almaty Oblast Sanitary-Epidemiological Department, Epidemiologic, Taldykorgan, KAZ; 3 - International Kazakh-Turkish University, Internal Disease, Shimkent, KAZ

**TP 04**  Production of a pXO2-Encoded Putative Pore-Forming Toxin by *Bacillus cereus* Biovar *anthracis*, but not Classic *B. anthracis*
S Dupke\(^1\), A Barduhn\(^1\), T Franz\(^1\), A Lander\(^1\), F Zimmermann\(^1\), FH Leendertz\(^2\), R Grunow\(^1\), and SR Klee\(^1\)
1 - Robert Koch-Institut, Centre for Biological Threats and Specific Pathogens, Berlin, DEU; 2 - Robert Koch-Institut, Epidemiology of Highly Pathogenic Microorganisms, Berlin, DEU
Poster Exhibition

TP 05  Whole Genome Comparison Between *Bacillus anthracis* Strains: The Vaccine „Carbosap” and the 95014 Isolate
B Gentile, A Ciammaruconi, A Anselmo, A Fortunato, AM Palozzi, Y Ramisse, Y Morel, and F Lista
1 - Army Medical Research Center, Histology and Molecular Biology Section, Rome, ITA; 2 - DGA CBRN Defense, Division Analyses Biologiques, Vert-le-Petit, FRA

TP 06  Detachment of *Bacillus* spores from Different Test Materials
N Hanschmann, R Heinrich, K Lemmer, and R Grunow
Robert Koch-Institut, Centre for Biological Threats and Special Pathogens (ZBS 2), Berlin, DEU

TP 07  Rapid Detection of Resistance Against Ciprofloxacin in *Bacillus anthracis* via Real Time PCR Assays
M Hanczurak, A Hübner, and G Grass
Bundeswehr Institute of Microbiology, Munich, DEU

TP 08  Detecting *Bacillus anthracis* in the Food Chain
M Lavander, T Jinnerot, P Ågren, S Ehres, R Kaden, S Ferrari, M Lindberg, C Nilsson, O Stephansson, and A Lundin Zumpe
1 - National Food Agency, Microbiology, Uppsala, SWE; 2 - Swedish Joint Laboratory for Food Safety and Biopreparedness, Uppsala, SWE; 3 - National Veterinary Institute, Bacteriology, Uppsala, SWE

TP 09  Analysis of Laboratory Grown Bacillus Spores Using Direct Analysis in Real Time-Mass Spectrometry (DART-MS): Rapid Taxonomic Identification and Forensic Attribution of Bacterial Threat Agents
M Romanelli, C Stanciu, J Goss, J Turner, and CJ Ehrhardt
1 - Virginia Commonwealth University, Forensic Science, Richmond, VA, USA; 2 - Virginia Commonwealth University, Chemistry, Richmond, VA, USA

TP 10  A DFG-Funded Project to Analyze Epidemiology and Ecology of *Bacillus cereus* Biovar *anthracis* in Côte d’Ivoire
F Zimmermann, S Dupke, FH Leendertz, E Couacy-Hymann, R Grunow, and SR Klee
1 - Robert Koch-Institut, Centre for Biological Threats and Specific Pathogens, Berlin, DEU; 2 - Robert Koch-Institut, Epidemiology of Highly Pathogenic Microorganisms, Berlin, DEU; 3 - LANADA/LCPA, Bingerville, CIV
Abstract Numbers

Abstract numbers are composed of a first letter (A-T), indicating the session or topic to which the presentation has been assigned, a second letter, where O indicates an oral presentation and P indicates a poster presentation, and a serial number. Abstracts are sorted according to their serial numbers in the abstract book.

Advice for Poster Presentations

Posters should be prepared in English. The format should not exceed DIN A0 (84.1 cm width x 118.9 cm height; portrait format), and the posters should not be laminated. Mounting materials will be provided. Your poster should be presented on the assigned poster board during the whole conference. Additionally, there will be a special poster session (Thursday, 24 October 2013, 10:45-12:30) during which one of the authors should be personally present at the poster. Poster presenters are encouraged to distribute one-page handouts.

Advice for Speakers

♦ Please prepare your presentation as a PowerPoint for Windows® file.
♦ Check the Corrigenda and the "Program Changes Board" to determine if there are any changes to the program that might relate to your presentation.
♦ Make sure to bring your presentation to the media room at least 30 minutes before your session starts. Files for early morning presentations should ideally be handed in the day before.
♦ If possible, arrive at your presentation room prior to the start of the session and introduce yourself to the chair.
♦ Keep strictly to the scheduled presentation time, which includes the time for discussion. The chairpersons are advised to start the sessions in time and to terminate the lectures on schedule to avoid any overrun.

CME Points

The Conference is recognized by the Bavarian Medical Association. To earn CME credits, participants are asked to register daily in the lists of the Bavarian Medical Association displayed at the registration office. Please indicate your central CME reference number.

Conference Fee

The mandatory conference fee of 75€ is an overhead fee covering all extras such as lunch buffet, beverages served during coffee breaks, abstract book, congress bag, etc.

Participation in the Conference Dinner (Bavarian music and hospitality at the Augustinerkeller Munich, see Social Events) is optional. The Conference Dinner must be booked separately and will be charged at 45€.
Conference Language

The official conference language is English.

Conference Office / Registration Desk

The conference office is located next to the lecture hall, Entry B, Room 13.

Opening hours:
- 22 Oct 2013: 14:00 — 19:00
- 23 Oct 2013: 08:00 — 18:30
- 24 Oct 2013: 08:00 — 18:30
- 25 Oct 2013: 08:00 — 12:00

Following registration at the conference office, you are requested to wear your name tag inside the barracks at all times.

Conference Venue and Date

The Medical Biodefense Conference 2013 will take place from 22 to 25 October 2013 at the Bundeswehr Medical Academy in Munich:

Ernst von Bergmann Barracks
Lecture Hall
Neuherbergstrasse 11
80937 Munich
Germany

The conference will be held on military premises (Ernst von Bergmann Barracks). Access to the barracks is possible only through the main gate and upon presentation of a valid passport or military ID card. Please make sure that the number entered in the registration form exactly corresponds to the number shown on your passport/ID. If your name is not on the list kept by the guard personnel, you may encounter problems entering the premises.

Dress Code

Dress code for the conference is uniform (military) or casual for all occasions. For the social events dress code is casual only. Bavarian style dress ("Lederhose", "Dirndl") will be welcome at the Bavarian Evening.
Exhibitors and Sponsors

Sponsors:
- Bavarian Nordic A/S
- Curetis AG
- OWR GmbH

Exhibitors:
- AID Autoimmun Diagnostika GmbH
- Alere GmbH
- altona Diagnostics GmbH
- Bruker Daltonik GmbH
- CeoTronics AG
- CTL Europe GmbH
- Data Sciences International (DSI)
- Eurofins MWG Operon
- Euroimmun AG
- GlaxoSmithKline GmbH & Co. KG
- JPT Peptide Technologies GmbH
- MATEST Systemtechnik GmbH
- metabolion international AG
- microfluidic ChipShop GmbH
- miprolab GmbH
- NovaTec Immundiagnostica GmbH
- PEPperPRINT GmbH
- Promega GmbH
- R-Biopharm AG
- Schülke & Mayr GmbH
- Tetracore, Inc.
- TIB Molbiol Syntheselabor GmbH
- VACUUBRAND GMBH + CO KG

Industrial Exhibition

During the conference an industrial exhibition will be held by the German Society for Military Medicine and Pharmacy (GSMMP/DGWMP) in the Foyer 2 of the lecture hall.

For inquiries:
- General Secretary of GSMMP/DGWMP
  Neckarstraße 2a
  53175 Bonn
  Phone: +49 (0)228 308 99 534
  e-mail: bundesgeschaeftsstelle@dgwmp.de
Meals and Beverages

Lunch snack buffet (Wednesday and Thursday only, served at the Reception Hall) and beverages served during coffee breaks (coffee, tea, soft drinks) are covered by the conference fee.

À la carte menus are also available for purchase at the Officers Mess (payment in cash only).

Opening hours Officers´ Mess:
- Breakfast: 07:00 - 11:00
- Lunch: 11:00 - 13:00
- Dinner: 16:00 - 22:00

Participants may also use the canteen in the Dining Hall (Bldg. 8) as well (payment in cash or with prepaid card issued by Verpflegungsmanagement der Bundeswehr).

Opening hours Dining Hall (Bldg. 8):
- Breakfast: 05:45 - 07:30
- Lunch: 11:00 - 12:30
- Dinner: 16:00 - 17:30

Phone Numbers

Conference office (during opening hours): +49 (0)89 3168 4513
Officer on duty (room key pickup after closing of the conference office): +49 (0)89 3168 4600
Bundeswehr Institute of Microbiology: +49 (0)89 3168 3981

In case of medical emergency call:
Medical center of the Academy: +49 (0)89 3168 3333 or Civilian Ambulance: 112

Poster Awards

The German Society for Military Medicine and Pharmacy will honor three posters with a poster award (kindly supported by TIB Molbiol Syntheselabor GmbH), which will be presented to the award winners during the poster award ceremony on 24 October 2013 at 16:00h.

- 1st prize: 500 EUR
- 2nd prize: 300 EUR
- 3rd prize: 200 EUR

Registration and Support

BETA Verlag & Marketinggesellschaft mbH
Phone: +49 (0)228 919 37 41
e-mail: events@beta-publishing.com
For further details on registration options, please see the website:
http://www.biodefense2013.org

Please note that there is no on-site registration option.
Security Advice

The conference will be held on the military premises of the Bundeswehr Medical Academy. Access to the premises will only be allowed to registered participants with a valid passport or military identity card. The name list of registered participants will be checked prior to the conference by the military security authorities. The security staff reserves the right to deny access to the military premises for any security concerns to anyone without giving reason or prior notice. The conference organizers as well reserve the right to deny registration to anyone without giving reason.

Social Events

Welcoming Reception
The German Society for Military Medicine and Pharmacy invites the participants to a Welcoming Reception, which will take place on Tuesday, 22 October 2013, 18:30-21:30 in the Reception Hall on the premises of the Bundeswehr Medical Academy. Participation is free.

Conference Dinner
The German Society for Military Medicine and Pharmacy invites the conference attendees to a social event at the Augustinerkeller Munich (Wednesday, 23 October 2013, 18:30 - 22:30). Bus transportation to this location will be available. Participation in the Conference Dinner will be 45 EUR for a three-course menu (two beverages included). If you have not yet enrolled for the Dinner in advance, please ask for residual tickets on-site at the registration desk. There is also a contingent of tickets available for accompanying persons, who are not registered as conference participants. Please ask at the registration desk.

Travel and Transportation

Free Shuttle Bus Service:
There will be a free shuttle service between „Harthof“ underground station (U2) and the conference venue for your arrival on 22nd October from 14:00 to 20:00 hrs and for late arrivals on 23rd October from 8:00 to 9:00 hrs as well as for your departure on 24th October from 16:00 hrs to 19:00 hrs and on 25th October from 07:00 hrs to 14:00 hrs.

The venue (Ernst von Bergmann Barracks) can be reached as follows:

By Airplane:
The nearest airport is Franz-Josef-Strauss Airport in Munich (MUC). To reach the center of Munich you can use the Lufthansa Airport Shuttle Bus (operating from 06:25 to 22:25 hrs every 20 min; approx. 11 EUR for a single ticket) or the suburban train (S-Bahn S8, approx. 12 EUR for a single ticket) to the main station. You will also find car rental agencies or taxis at the airport (one-way taxi fare approx. 50 EUR).

To directly reach the conference venue, use suburban train S1 and change to underground train U2 at Feldmoching. Get off at the stop „Harthof“. From there you can take the free
shuttle bus or city bus line 170 to „Kieferngarten“ or 141 to „Scheidplatz“ and get off at the stop „Rose-Pichler-Weg“, which is right next to the main gate.


**By Train:**
From the main station, take underground train U2 to Feldmoching and get off at the stop „Harthof“. There, take the free shuttle bus or the city bus lines 141 or 170 to „Münchner Freiheit“ or „Kieferngarten“. Get off at the stop „Rose-Pichler-Weg“ and you will find yourself right next to the main gate.


**By Car:**
You can also use Google Route Planner to be guided to the conference venue: [https://maps.google.com/maps?output=classic&daddr=%4048.210611,11.581564](https://maps.google.com/maps?output=classic&daddr=%4048.210611,11.581564)

- **Highway A8 Stuttgart-Munich:**
  At Eschenried intersection change to highway A99 to Salzburg. Take the exit Neuherberg, then drive in the direction of Munich. After passing the city boundaries, turn right into Neuherbergstrasse at the first traffic lights; after 400 m you will find the main gate on the left hand side.

- **Highway A9 Nuremberg-Munich:**
  At Neufahrn intersection change to highway A92 to Stuttgart, then at Feldmoching junction to highway A99 to Salzburg. Take the exit Neuherberg, then drive in the direction of Munich. After passing the city boundaries, turn right into Neuherbergstrasse at the first traffic lights; after 400 m you will find the main gate on the left hand side.

- **Highway A8 Salzburg-Munich:**
  At the intersection München Brunnthal change to highway A99 to Nuremberg/Stuttgart, then stay on the A99. Take the exit Neuherberg, then drive in the direction of Munich. After passing the city boundaries, turn right into Neuherbergstrasse at the first traffic lights; after 400 m you will find the main gate on the left hand side.

When arriving by car, please note that there are parking restrictions on the barracks’ premises. Please do not park on reserved parking spaces.

**Hotel Shuttle Bus**
(provided by the German Society for Military Medicine and Pharmacy)

Guests staying at the recommended conference hotels may use the complimentary hotel shuttle bus on 23 to 25 October for commuting to the conference venue in the morning and back in the evening. You will be informed about departure times of the buses when checking in at the conference office. Guests staying at other hotels should use public transport.
MEDICAL BIODEFENSE CONFERENCE 2013
Munich, 22 - 25 October 2013

SCIENTIFIC PROGRAM

organized by
Bundeswehr Institute of Microbiology
in cooperation with
German Society for Military Medicine and Pharmacy (GSMMP/DGWMP)