

Thursday, October 12, 2017**08:00** Registration Opens (Poster Mounting)

**10:00 – 12:00 Plenary Session I: Keynotes
(Room Ballsaal)***Language: English / German**Chair: Stephan Ludwig*

10:00 **Opening Remarks: 10 Years of Interdisciplinary Zoonoses Research in Germany**
Stephan Ludwig, Münster, Germany**Welcome Note of the Federal Government**

Andrea Spelberg, Berlin, Germany

10:30 **Keynote 1: Ecological and Genomic Drivers of Zoonotic Infections**
Simone Sommer, Ulm, Germany**11:15** **Keynote 2: Global Health Security Agenda: Antimicrobials, Zoonoses und Biosafety/Biosecurity**
Mika Salminen, Helsinki, Finland

12:00 *Lunch*

13:00 *Poster Viewing Session*

14:00 – 15:30 **Session 1: Novel Methods, Diagnostics and NGS
(Room Zehlendorf)***Language: English**Chairs: Martin H. Groschup and Claudia Kohl*

14:00 **Ancient viral DNA: a systematic feasibility study**
V. Schuenemann, **S. Calvignac-Spencer****14:15** **Hybridization capture as a paleovirological tool for the detection of recent filoviral integrations in potential hosts' genomes**
A. Düx, J. Gogarten, L. Müller, F. Leendertz, S. Calvignac-Spencer**14:30** **Molecular typing of *Listeria monocytogenes* in foodstuffs to combat human listeriosis in Germany**
S. Lüth, S. Kleita, A. Flieger, S. Halbedel, R. Prager, R. Merle, T. Alter, S. Al Dahouk**14:45** **Advanced characterization of Cowpox virus infection in a human skin equivalent-based 3D model**
M. Neumann, R. Koban, F. Groeber, H. Walles, H. Ellerbrok**15:00** **A novel approach to tackle respiratory pathogens responsible for great ape population declines**
L. V. Patrono, S. Calvignac-Spencer, F. H. Leendertz**15:15** **Identification of biomarkers of zoonotic pathogens by ORFeome phage display**
M. Hust, **G. Moreira**

Thursday, October 12, 2017 Continued

**14:00 – 15:30 Session 2: Pathogen-Cell-Interaction
(Room Steglitz)**
Language: English
Chairs: *Martin Beer and Jonas Fuchs*

- 14:00 **Phosphorylation of Tripartite motif containing 28 (TRIM28) during HPAIV infection occurs via the stress-activated protein kinase pathway p38-MSK1**
T. Krischuns, C. Nordhoff, S. Ludwig, L. Brunotte
- 14:15 **Endogenous Borna-like N elements in shrews**
D. Nobach, J. Müller, S. Herzog, M. Eickmann, C. Herden
- 14:30 **Infection of differentiated swine airway epithelial cells by influenza A viruses of different species origin**
D-L. Shin, N-H. Wu, W. Yang, F. Meng, G. Herrler
- 14:45 **Comparative loss of function screens reveal common pathways required by Paramyxoviridae and Pneumoviridae**
K. Pfeffermann, D. E. Anderson, S. Y. Kim, B. Sawatsky, P. Duprex, M. A. Garcia-Blanco, V. von Messling
- 15:00 **The role of Salmonella Pathogenicity Island 2 (SPI2) in the course of neonatal non typhoidal Salmonella infections**
K. van Vorst, A. Dupont, K. Zhang, C. Pfarrer, U. Repnik, G. Griffiths, M. Hensel, P. Valentin-Weigand, M. Hornef, M. Fulde
- 15:15 **Hypoxia induces dormancy in *Coxiella burnetii***
F. Fischer, J. Schulze-Lührmann, I. Hayek, S. Wirtz, J. Jantsch, A. Lührmann
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**14:00 – 15:30 Session 3: Antimicrobial Use and Resistance
(Room Ballsaal)**
Language: English
Chairs: *Birgit Walther and Denise Rabold*

- 14:00 **MIC distributions for glyphosate in farm animal-associated Enterobacteriaceae determined by the broth microdilution method**
K. Bote, J. Poepppe, O. Makarova, U. Roesler
- 14:15 **Traceability of MRSA in the pork food chain and survival in meat products**
A. Fetsch, B. Ballhausen, S. Rose-Meierhöfer, D. Bade, G. Arendt, A.-C. Brück, M. Ebert
- 14:30 **ESBL-/AmpC-producing Enterobacteriaceae in broiler fattening farms after cleaning and disinfection – identification of critical control points**
K. Daehre, C. Robé, A. Blasse, A. Friese, U. Roesler
- 14:45 **Use of antimicrobial peptides for the reduction of multi-resistant pathogenic bacteria and prevention of biofilm formation in dairy processing**
S. Kersting, A. E. M. Schmidt, K. Rapsch, J. Assmann, A. Bethe, L. H. Wieler, C. Fidelak, T. Janßen, M. Tadros, E. Ehrentreich-Förster, M. von Nickisch-Roseneck
- 15:00 **Colonisation of broiler chickens with ESBL-/ AmpC- producing E. coli using a seeder-bird model and detection of in vivo transformants**
C. Robé, A. Blasse, K. Daehre, U. Roesler, S. Guenther
- 15:15 **Multispecies and clonal dissemination of OXA-48 type carbapenemase in Enterobacteriaceae from clinical samples of animals (2009-2016)**
S. Pulss, I. Stamm, E. Prenger-Berninghoff, S. Göttig, I. Stolle, C. Heydel, T. Semmler, C. Ewers
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15:30 *Coffee Break and Poster Viewing*

Thursday, October 12, 2017 Continued

- 16:00 – 17:30 Plenary Session II: Vielfältige Zoonosenforschung in Deutschland (Room Ballsaal)**
Language: German
Chairs: Martin H. Groschup and Stephan Ludwig
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- 16:00 Forschungs-Ergebnisse der Arbeiten aus BMEL-geförderten Zoonosenprojekten (à 10 min)**
- BMEL-Verbund: Culi-Mo: Monitoring of Mosquitoes in Germany**
Helge Kampen, Greifswald – Insel Riems, Germany
- BMEL-Verbund: Culi-Fo: Research on Mosquitoes in Germany**
Egbert Tannich, Hamburg, Germany
- BMEL-Verbund: Tuberculosis**
Karin Schwaiger, Munich, Germany
- 16:30 Neuroborreliose-Surveillance bei Kindern und Erwachsenen; Infektionsprävalenzen und -inzidenzen in der Allgemeinbevölkerung (BMG-Förderung)**
Hendrik Wilking, Wernigerode, Germany
- 16:45 Zoonosenforschung unter dem Dach des BMVg**
Sabine Sauer, Munich, Germany
- 17:00 One Health-Initiative der Bundesinstitute**
Mathias Niedrig, Berlin, Germany
- 17:15 Diskussion mit allen**
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- 17:45 – 19:30 General Assembly National Research Platform for Zoonoses with Election of Internal Advisory Board (Room Ballsaal)**
Language: German
Chairs: Stephan Ludwig, Martin Groschup, Sebastian C. Semler
- Wahl des Internen Beirats
Bericht über das vergangene Jahr
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- 19:30 Welcome Reception/Social Dinner (Room Ballsaal)**
- 20:45 100.000 € für den Beweis der Existenz des Masernvirus - im Ernst?**
David Bardens, Hudiksvall, Sweden
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Friday, October 13, 2017**07:30 – 09:00 Young Scientist Breakfast**

09:00 – 10:30 Plenary Session III: Nationales Forschungsnetz zoonotische Infektionskrankheiten (Room Ballsaal)*Language: German**Chairs: Martin H. Groschup, Stephan Ludwig and Sebastian C. Semler*

09:00 Das Netzwerk Zoonotische Infektionskrankheiten – Vorstellung des Netzwerks durch den Sprecher
Christian Drosten, Berlin, Germany**09:05 Kurz-Vorstellung der einzelnen Verbände (à 5 min.)****#1Health-PREVENT - One Health Interventions to Prevent Zoonotic Spread of Antimicrobial Multidrug-Resistant Bacterial Microorganisms**

Robin Köck, Münster, Germany

The Zoonotic Bornavirus Consortium (ZooBoCo)

Martin Beer, Greifswald – Insel Riems, Germany

Verbund Campylobacter – Preventing and combating Campylobacter infections: On track towards a One Health approach

Stefan Bereswill, Berlin, Germany

The RAPID consortium – Risk Assessment in Pre-pandemic Respiratory Infectious Diseases

Christian Drosten, Berlin, Germany

Q-GAPS: Q fever – GermAn Interdisciplinary Program for reSearch

Anja Lührmann, Erlangen, Germany

Strengthening public health by understanding the epidemiology of rodent-borne diseases (RoBoPub)

Rainer Ulrich, Greifswald – Insel Riems, Germany

TBENAGER: The German Tick-Borne Encephalitis Consortium

Gerhard Dobler, Munich, Germany

10:00 Diskussionsrunde mit allen Nachwuchsgruppen**Persistence of Toxoplasma gondii: Mode of action of candidate anti-protozoals and the role of physiological heterogeneity in zoonotic infections**

Martin Blume, Berlin, Germany

Ecology of emerging arboviruses - ARBOSPREAD

Sandra Junglen, Berlin, Germany

Vector biology of Aedes albopictus and eco-bio-social drivers for effective vector prevention & control in cooler ecoregions (AECO)

Ruth Müller, Frankfurt, Germany

Development of novel tools to study the zoonotic vector biology of Ixodes ricinus using CRISPR/Cas and artificial tick feeding systems

Ard Nijhof, Berlin, Germany

RNA-VIRT: Emerging RNA viruses and their interaction with the human and animal host

Imke Steffen, Hannover, Germany

Immunological requirements for protective vaccination against zoonotic infections

Asisa Volz, Munich, Germany

10:20 Gemeinsame Diskussion mit den Koordinatorinnen und Koordinatoren

10:30 Coffee Break and Poster Viewing

Friday, October 13, 2017 Continued**11:00 – 12:30 Session 4: Risk Assessment, Epidemiology and Modelling
(Room Steglitz)***Language: English**Chairs: Sandra Eßbauer and Reimar Johne***11:00 Bushmeat hunting and zoonotic transmission of Simian T-lymphotropic virus 1 in tropical West and Central Africa****G. Schubert**, A. Mossoun, S. Calvignac-Spencer, C. Akoua-Koffi, E. Couacy-Hymann, J.J. Muyembe-Tamfum, S. Karhemere, R.M. Wittig, F.H. Leendertz**11:15 Characteristics profiles of cefotaxime-resistant *E. coli* from German livestock farms and potential association with farm factors****K. Hille**, M. Felski; I. Ruddat; J. Woyd; A. Schmid, A. Friese, J. Fischer, L. Falgenhauer, S. Hörmansdorfer, A. Käsbohrer, U. Rösler, L. Kreienbrock**11:30 Hantavirus infections as a cause of fever of unknown origin in Kazakhstan****N. Tukhanova**, A. Shin, K. Abdiyeva, N. Turebekov, S. Frey, R. Yegemberdiyeva, L. Yeraliyeva, Z. Shapieva, G. Fröschl, G. Zhumabaeva, A. Zhalmagambetova, S. Essbauer**11:45 Lyme borreliosis in Germany: description of surveillance data 2013-2016****J. Enkelmann**, H. Wilking, M. Böhmer, V. Fingerle, C. Sifczyk, D. Werber, M. Littmann, S.-S. Merbecks, C. Helmeke, S. Schroeder, S. Hell, U. Schlotthauer, F. Burckhardt, A. Schielke**12:00 Spatial Distribution and Risk Areas in Germany – Results of the National Database for Alveolar Echinococcosis****J. Schmidberger**, T. Gräter, T. F.E. Barth, W. Kratzer, B. Grüner**12:15 Spread of human dirofilariasis in Europe****R. Lühken**, E. Tannich**11:00 – 12:30 Session 5: New and Reemerging Zoonoses
(Room Ballsaal)***Language: English**Chairs: Martin Pfeffer and Rainer Ulrich***11:00 Pathogenesis and transmission of the novel highly pathogenic avian influenza H5N8 2016 virus in ferrets and mice****D. Hoffmann**, M. Naguib, T. C. Harder, C. Grund, M. Beer**11:15 Experimental transmission of Zika virus by mosquitoes from Central Europe**A. Heitmann, **S. Jansen**, R. Lühken, M. Leggewie, M. Badusche, B. Pluskota, N. Becker, O. Vapalahti, J. Schmidt- Chanasit, E. Tannich**11:30 Hepeviruses in small mammals: RabbitHEV in two populations in and around Frankfurt/ Main, Germany****R. Ryll**, M. Eiden, E. Heuser, M. Weinhardt, M. Ziege, M.H. Groschup, R. Johne, R. G. Ulrich**11:45 The impact of polymorphisms within the Ebola virus glycoprotein on host cell entry****M. Hoffmann**, L. Crone, E. Dietzel, J. Paijo, M. González Hernández, I. Nehlmeier, U. Kalinke, S. Becker, S. Pöhlmann**12:00 Multiple detection of zoonotic variegated squirrel bornavirus 1 in different squirrel species****K. Schlottau**, B. Hoffmann, R. G. Ulrich, K. Franzke, M. Beer, D. Hoffmann**12:15 Diverse novel orthobunyaviruses detected in sylvatic mosquitoes of the Panama Canal Zone****M. Marklewitz**, K. Hermanns, J. Schmid, G. Eibner, F. Zirkel, J. R. Loaiza, P. Trippner, S. Sommer, C. Drosten, S. Junglen

Friday, October 13, 2017 Continued

**11:00 – 12:30 Session 6: Public Health and Social Issues of Zoonoses Research
(Room Zehlendorf)**
Language: English
Chairs: *Uwe Rösler and Shari Fell*

- 11:00 **Comparison and optimization of methods for virus detection in frozen berries**
C. Bartsch, E.Trojnar, R. Johne
- 11:15 **Full genomes of new HEV and HPgV strains, Sudan**
T. Muzeniek, C. Kohl, M. Eldegail, A. Radonic, I. Mahmoud, A. A.Osman, A. Nitsche
- 11:30 **Zika virus infection is enhanced in the presence of dengue antibodies in human placenta explants**
K. Hermanns, C. Göhner, A. Kopp, A. Schmidt, W. Merz, U. Markert, C. Drosten, S. Junglen
- 11:45 **Interdisciplinary Communication in the Zoonoses Research Community in Germany**
A. Debski
- 12:00 **Haemolytic uraemic syndrome (HUS) outbreak caused by sorbitol-fermenting (SF) Shiga toxin-producing Escherichia coli (STEC) O157, Germany, December 2016 to May 2017**
S. Vygen-Bonnet, B. Rosner, H. Wilking, A. Fruth, R. Prager, A. Kossow, C. Lang, S. Simon, J. Seidel, M. Faber, A. Schielke, K. Michaelis, A. Holzer, R. Kamphausen, D. Kalhöfer, S. Thole, A. Mellmann, A. Flieger, K. Stark
- 12:15 **Evaluation of predisposing factors for a long-time colonization of pigs with livestock-associated MRSA via the airborne route in a newly established animal model**
K. Rosen, F. Ebner, A. Friese, S. Hartmann, U. Roesler
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12:30 *Lunch & Poster Viewing*

**14:30 – 16:00 Plenary Session IV: Keynotes
(Room Ballsaal)**
Language: English
Chair: *Martin H. Groschup*

- 14:30 **Keynote 3: Bornavirus infection: a new model of evolution and coexistence of RNA viruses**
Keizo Tomonaga, Kyoto, Japan
- 15:15 **Keynote 4: One Health – (Not) Just a Buzz-Word**
Jakob Zinsstag, Basel, Switzerland
- 16:00 **Poster Awards**
- 16:20 **Farewell**