

Thursday, October 12, 2017

08:00 Registration Opens (Poster Mounting)

10:00 – 12:00 Plenary Session 1
Language English / German

10:00 **Opening Remarks: 10 Years of Interdisciplinary Zoonoses Research in Germany**
Stephan Ludwig, Münster, Germany

Welcome Note of the Federal Government

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 (Abstract Submission)
Language: English

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. Kleta, 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

Thursday, October 12, 2017 Continued

14:00 – 15:30 Session 2: Pathogen-Cell-Interaction*Language: English*

- 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*Language: English*

- 14:00 **MIC distributions for glyphosate in farm animal-associated Enterobacteriaceae determined by the broth microdilution method**
K. Bote, J. Poeppe, 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-Rosenegk
- 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

Thursday, October 12, 2017 Continued

15:30 *Coffee Break and Poster Viewing*

16:00 – 17:30 Plenary Session 2: Vielfältige Zoonosenforschung in Deutschland
Language: German

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 (*to be confirmed*)

17:15 **Diskussion mit allen**

17:45 – 19:30 General Assembly National Research Platform for Zoonoses with Election of the Internal Advisory Board
Language: German

Chair: *Stephan Ludwig, Martin Groschup, Sebastian C. Semler*

Wahl des Internen Beirats
Bericht über das vergangene Jahr

19:30 *Welcome Reception/Social Dinner with lecture*

Friday, October 13, 2017

07:30 – 09:00 Young Scientist Breakfast

09:00 – 10:30 Plenary Session 2: Netzwerk Zoonotische Infektionskrankheiten
Language: German

09:00 **Das Netzwerk Zoonotische Infektionskrankheiten** – Vorstellung des Netzwerks durch den Sprecher
Christian Drosten, Berlin, Germany (*to be confirmed*)

09:15 **Kurz-Vorstellung der einzelnen Verbände (à 10 min.)**

Verbund Health-PREVENT
Robin Köck, Münster, Germany

Verbund ZooBoCo
Martin Beer, Greifswald – Insel Riems, Germany

Verbund PAC-Campy
Stefan Bereswill, Berlin, Germany

Verbund Rapid
Christian Drosten, Berlin, Germany (*to be confirmed*)

Verbund Q-GAPS
Anja Lührmann, Erlangen, Germany

Verbund RoBoPub
Rainer Ulrich, Greifswald – Insel Riems, Germany

Verbund TBENAGER
Gerhard Dobler, München, Germany

Diskussionsrunde mit allen Nachwuchsgruppen (20 Minuten)
Nachwuchsgruppe
Martin Blume

Nachwuchsgruppe
Sandra Junglen

Nachwuchsgruppe
Ruth Müller (*to be confirmed*)

Nachwuchsgruppe
Ard Nijhof (*to be confirmed*)

Nachwuchsgruppe
Imke Steffen (*to be confirmed*)

Nachwuchsgruppe
Asisa Volz

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
Language: English

- 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. Siffczyk, 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
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11:00 – 12:30 Session 5: New and Reemerging Zoonoses
Language: English

- 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

Friday, October 13, 2017 Continued

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 **Encephalitis of unknown origin in horses from Brazil**

G. S. Boos, D. Driemeier, E. M. Colodel, M. B. Castro, J. D. Barbosa Neto, M. Eickmann, C. Herden

11:00 – 12:30 Session 6: Public Health and Social Issues of Zoonoses Research
Language: English

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

12:30 *Lunch*

13:30 *Poster Viewing*

14:30 – 16:00 Plenary Session 4
Language: English

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**