

Poster sessions

Thursday, October 12, 2017:

13:00 - 14:00

15:30 - 16:00

Friday, October 13, 2017:

10:30 - 11:00

13:30 - 14:30

Session: Risk assessment, epidemiology and modelling

- R01 **Circulation of Influenza A viruses in Ghana: The human-animal interface**
M. Ayim-Akonor, E. Mertens, J. May
- R02 **Modelling spatial risk of Usutu disease in Europe: a comparison between a species distribution model and an epidemic model**
Y. Cheng, N. Tjaden, A. Jaeschke, S. Thomas, C. Beierkuhnlein
- R03 **Abundance of *Ixodes ricinus* and the prevalence of Lyme Borrelia pathogenic to humans**
A. Debski, F.-R. Matuschka² D. Richter
- R04 ***Alaria* spp. *mesocercariae* in wild boar (*Sus scrofa*, Linnaeus, 1758) in the Berlin-Brandenburg region**
L. Flores, Z. Renteria, D. Sparborth, S. Kurze, K. Riehn
- R05 **Towards a monitoring of *Francisella tularensis* in *Microtus arvalis* in Europe**
K. Jeske, H. Tomaso, C. Imholt, J. Schulz, O. Beerli, E. Tricaud, M. Heroldova, C. Staubach, R. G. Ulrich
- R06 **A research agenda for vector-borne disease risk in Europe: spatio-temporal hotspots and potential economic burden**
S. M. Thomas, E. Schorling, N. B. Tjaden, C. Beierkuhnlein, K. H. Nagels

Session: Pathogen-Cell Interaction

- P01 **Establishment of primary cell cultures from a microbat and study of their host cell factors for filovirus entry**
M. Bokelmann, K. Edenborough, F. Leendert¹, E. Couacy-Hymann, A. Kurth
- P02 **Zoonotic virus infections in cell lines from bank voles and common voles**
F. Binder, U. Ziegler, D. Hoffmann, R. Riebe, S. Essbauer, M. Lenk, S. Reiche, R. G. Ulrich
- P03 **Comparison of eleven *G. duodenalis* isolates suggests Caco-2 monolayers as a model for asymptomatic *Giardia* sp. infections**
M. R. Kraft, C. Klotz, R. Bückler, J.-D. Schulzke, T. Aebischer

- P04 **Integrin $\alpha\beta 3$ ablation impairs Zika virus replication**
V. Pinho dos Reis, M. Keller, R.G. Ulrich, M. H Groschup
- P05 **Chimeric mumps viruses expressing the fusion and hemagglutinin-neuraminidase protein of a bat-derived paramyxovirus are highly fusion active and neurovirulent**
N. Krüger, C. Sauder, M. Hoffmann, C. Örvell, JF. Drexler, S. Rubin, G. Herrler
- P06 **NS segment reassortment can increase growth kinetics and pathogenicity of the 2009 pandemic H1N1 influenza A virus in vitro and in vivo**
A. Mostafa, H. Petersen, M. A Tantawy, A. A. Iqbal, D. Hoffmann, A. Tallam, B. Selvakumar, F. Pessler, M. Beer, S. Rautenschlein, S. Pleschka
- P07 **Inhibition of subtilisin kexin isoenzyme-1 (SKI-1) and signal peptide peptidase (SPP) interferes with Ebola virus glycoprotein-driven host cell entry**
T. Plegge, M. González Hernández, M. Spiegel, S. Pöhlmann
- P08 **The fusion activity of M74 F is increased following co-expression with truncated M74 G proteins compared to the parental protein**
K. Voigt, N. Krüger, M. Hoffmann, M. A. Müller, J. F. Drexler, C. Drosten, G. Herrler
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Session: Antimicrobial Use and Resistance

- A01 **Reduction of *Escherichia coli* cell numbers by bacteriocins**
J. Andrack, G. Gölz, T. Alter, S. Orquera
- A02 **AMP-coated silicone membranes display high antimicrobial activity**
J. Assmann, K. Rapsch, M. von Nickisch-Rosenegk, A. Bethe, M. Tadros, C. Fidelak, T. Janßen, C. Schaudinn, L. H. Wieler
- A03 **Identification of extended-spectrum β -lactamase (ESBL)-producing *Escherichia coli* isolates in diseased food-producing animals from GERM-Vet 2008-2015**
G. B. Michael, A. K. Siqueira, H. Kaspar, K. Kadlec, S. Schwarz
- A04 **Multidrug-resistant extended-spectrum β -lactamase-producing *Escherichia coli* isolates originating from fresh vegetables**
C. Freitag; G. B. Michael; J. Li; K. Kadlec; Y. Wang; M. Hassel; S. Schwarz
- A05 **Novel extended-spectrum β -lactamase blaCTX-M-146 gene detected in a bovine *Escherichia coli* isolate**
G. B. Michael, H. Kaspar, K. Kadlec, S. Schwarz
- A06 **Colistin resistance gene mcr-2 in pathogenic *Escherichia coli* from swine**
M. Bülte, K. Kerner, S. Fiedler, E. Prenger-Berninghoff, T. Semmler², Rolf Bauerfeind, C. Ewers
- A07 **Impact of the horizontal gene transfer in *Klebsiella* spp. for the spread of antimicrobial resistances**
G. Carl, A. Käsbohrer, J. Rau, B.-A. Tenhagen, M. Grobbel, J.A. Hammerl
- A08 **MRSA and MRSP among employees and the environment of a small animal clinic**
A. T. Feßler, R. Schünemann, K. Kadlec¹, V. Hensel, J. Brombach, J. Murugaiyan, I. Burgener, G. Oechtering, S. Schwarz
- A09 **Investigation of potential risk factors for the occurrence of *Escherichia coli* isolates from German fattening pig farms harbouring the mcr-1 colistin resistance gene**
K. Hille, N. Roschanski, I. Ruddat, J. Woydt, U. Rösler, L. Kreienbrock

- A10 **Development of a high-throughput method for identification of Methicillin-susceptible *Staphylococcus aureus* (MSSA) progeny from epidemic MRSA**
C. Huber, A. Lübke-Becker, T. Semmler, L.H. Wieler, B. Walther
- A11 **Tracking the effects of high-Zinc oxide diets in porcine intestinal *E. coli* populations**
V.C. Johanns, T. Semmler, B. Walther, L.H. Wieler
- A12 **Novel multiresistance integrative and conjugative element ICEPmu2 from a German bovine *Pasteurella multocida* isolate**
K. Kadlec, J. Li, G. B. Michael, H. Kaspar, Y. Shen, Y. Wang, S. Schwarz
- A13 **Used Daily Dose vs. Defined Daily Dose – Advantages and disadvantages of different dosage assumptions for the monitoring of antimicrobial usage in livestock**
S. Kasabova, M. Hartmann; F. Schaekel; M. Hemme; A. Kaesbohrer; L. Kreienbrock
- A14 **Endolysin HY-133 - a putative novel antimicrobial candidate against livestock associated methicillin resistant *Staphylococcus aureus***
U. Kaspar, J. A. de Haro Sautto, A. S. Scherzinger, G. Peters, E. A. Idelevich, K. Becker
- A15 **Investigation of Methicillin-resistant *Staphylococcus aureus* and Extended-spectrum beta-lactamase-producing Enterobacteriaceae in pigs**
K. Meissner, T. Homeier-Bachmann, C. Sauter-Louis, F. Conraths
- A16 **Comparisons of AmpC-beta-lactamase CMY-2 encoding plasmids from *Escherichia coli* from humans, livestock and food in Germany**
M. Pietsch, A. Irrgang, N. Roschanski, G. Brenner Michael, A. Käsbohrer, S. Schwarz, U. Rösler, Y. Pfeifer, G. Werner
- A17 **Induction of resistance to glyphosate, a common herbicide, in *E. coli* in vitro**
J. Poepppe, K. Bote, U. Roesler, O. Makarova
- A18 **A survey on the competencies and learning outcome of undergraduate veterinary students in three German faculties attending an elective course on prudent antibiotic use**
D. Rabold, F. Ghazisaeedi, S. Nueske, S. Andres, A. Wehrend, D. Hebler, J. Henning, J. Kluth, A. Luebke-Becker
- A19 **Molecular characterisation of MRSA CC3286 from primates**
M.C. Roberts, A. T. Feßler, S. Monecke, R. Ehricht, D. No, J. Lane, J. Smedley, S. Schwarz
- A20 **Eat organic? Antimicrobial resistance in *E. coli* from conventional and organic dairy cows and broilers**
B.-A. Tenhagen, K. Alt, M. Grobbel, J.A. Hammerl, A. Käsbohrer
- A21 **Identification of mecB-encoded methicillin resistance in *Macroccoccus caseolyticus* from food samples**
S. van Alen, N. Schleimer, U. Kaspar, B. Ballhausen, B.J. Morrison, G. Peters, J.E. Rubin, K. Becker
- A22 **Monitoring antibiotic usage in animals: Do existing systems provide comparable data?**
N. Werner, S. McEwen, L. Kreienbrock

Session: Immune response and Vaccines

- I01 **Neutrophil function in response to zoonotic pathogens in wild and domestic animals of Costa Rica**
N. de Buhr, M. C. Bonilla, M. Jimenez-Soto, M. von Köckritz-Blickwede, G. Dolz
- I02 **Establishment of bone marrow-derived dendritic cells from microbats for the study of Ebola virus infection**
K. Edenborough, M. Bokelmann, G. Holland, E. Couacy-Hymann, M. Laue, A. Kurth, J. Prescott
- I03 **Bourbon Virus: An unusual Thogoto-Orthomyxovirus**
J. Fuchs, G. Kochs
- I04 **Identification and characterization of bacterial immunoactive factors of *Enterococcus faecium***
F. Ghazisaeedi, L. H. Wieler, K. Tedin
- I05 **Novel monoclonal antibodies and alpaca derived single domain antibody fragments (VHH) against Rift Valley fever virus**
B. Gutjahr, M. Eiden, S. Reiche, M. Rissmann, C. Mroz, M. H. Groschup
- I06 ***Lactobacillus johnsonii* ameliorates intestinal, extra-intestinal and systemic pro-inflammatory immune responses following murine *Campylobacter jejuni* infection**
M. M. Heimesaat, I. Ekmekci, U. Escher, K. Stingl, S. Bereswill
- I07 **When a virus uses another entrance - Immune mechanisms involved in innate anti-Lyssaviruses immune response in nasal cavity of European bats**
Y. Zhu, X. He, A. Schäfer, J. Pikula, B. Köllner
- I08 **Comparative analysis of immunogenicity of Rift Valley fever virus glycoprotein Gc recombinantly expressed in different expression systems**
R. König, M. Keller, M. Eiden, M. H. Groschup
- I09 **Epidemic versus reservoir-associated SARS-CoV: Papain-like protease of the epidemic strain has an increased interferon antagonistic activity**
D. Niemeyer, E.M. Klein, A. Sieberg, R. Mettelman, S.C. Baker, C. Drosten, M.A. Müller
- I10 **Bat influenza virus chimeras as basis for the development of a new type of vaccine backbone for livestock vaccination**
J. Schön, M. Gorka, D. Hoffmann, W. Ran, M. Juozapaitis, M. Schwemmler, M. Beer
- I11 **Identifying cat transmission-relevant rodent reservoirs for virulent *Toxoplasma gondii* strains by analyzing IRGs-mediated resistance mechanisms**
F. Torelli, R. Ulrich, C. Klotz, F. Seeber
- I12 **Neuraminidase-expressing vesicular stomatitis virus replicons induce subtype-specific protection against influenza A virus**
L. Walz, S.-K. Kays, G. Zimmer, V. von Messling

Session: Novel methods, diagnostics and NGS

- D01 **Virulence profiling of animal pathogenic *Escherichia coli* by multiplex real-time PCR**
J. Geister, F. Münz, J. Beutlich, S. Mergemeier, L. Beutin
- D02 **Clinical comparison, standardization and optimization of Zika virus molecular detection**
V. M Corman, A. Rasche, C. Baronti, S. Aldabbagh, D. Cadar, C. BEM Reusken, S. D Pas, A. Goorhuis, J. Schinkel, R. Molenkamp, B. M Kümmerer, T. Bleicker, S. Brünink, M. Eschbach-Bludau, A. M Eis-Hübinger, M. P Koopmans, J. Schmidt Chanasit, M. P Grobusch, X. de Lamballerie, C. Drosten & J. F. Drexler
- D03 **Outbreak of canine brucellosis in a Brazilian kennel**
D.A.V. Silva, K. Sobotta, H. Brendebach, J. Grützke, L.B. Keid, S. Al Dahouk
- D04 **Development and Validation of Real-Time RT-PCR based Yellow Fever surveillance in the Americas**
C. Fischer, A. Moreir¹, M.C. Torres, P. Patel, O. Landt, R. Charrel, E.A. Gould, X. de Lamballerie, B.M. Kümmerer, A.M. Bispo de Filippis, J.F. Drexler
- D05 **Comparison of canine distemper virus strains infecting aquatic and terrestrial mammals**
W. K. Jo, A. Habierski, A.-K. Uhde, W. Baumgärtner, M. Peters, T. Kuiken, A. Osterhaus, M. Ludlow

Session: New and emerging zoonoses

- N01 **Application of a luciferase immunoprecipitation system (LIPS) to investigate the host spectrum of bovine hepatitis viruses**
C. Baechlein, A.L. Baron, D. Meyer, S. Peine, S. Polywka, N. Fischer, P. Becher
- N02 **Development of serological screening assays for the detection of antibodies against the most relevant zoonotic viruses in *Eidolon helvum* and *Rousettus aegyptiacus* fruit bats**
A. Balkema-Buschmann, N. Kley, M. H. Groschup, K. Fischer, M. Keller, B. Köllner
- N03 **Development and evaluation of an in vitro skin infection model for the zoophilic dermatophyte *Trichophyton benhamiae***
C. Baumbach, J.K. Michler, W. Schrödl
- N04 **Novel marsupial hepatitis A virus corroborates frequent host shifts during hepatovirus evolution**
I. de Oliveira Carneiro, A-L. Sander, C. R. Franke, J.F. Drexler
- N05 **Neotropical Bats that Co-habit with Humans Function as Dead-End Hosts for Dengue Virus**
A. Vicente-Santos, A. Moreira-Soto, C. Soto-Garita, LG. Chaverri, A. Chaves, JF. Drexler, JA. Morales, A. Alfaro-Alarcón, Rodríguez-Herrera, E. Corrales-Aguilar
- N06 **Hantavirus screening of insectivores from Germany**
M. Dafalla, A. Steiner, S. Fischer, J. Schneider, C. Imholt, J. Jacob, R. G. Ulrich

- N07 **Tick-borne encephalitis – an emerging viral infection in Germany**
G. Dobler
- N08 **Almaty region as a melting pot for the new tick-borne Rickettsiae species in Kazakhstan**
N. Turebekov, R. Yegemberdiyeva, A. Dmitrovskiy, Zh. Shapiyeva, L. Yeraliyeva, K. Abdiyeva, A. Oradova, A. Amirbekov, Z. Kachiyeva, L. Ziyadina, G. Froeschl, D. Hoeper, A. Zhalmagambetova, K. Freimueller, J. Zinner, S. Frey, S. Essbauer
- N09 **The epidemiological influence of tick-borne encephalitis in the southern part of Kazakhstan**
K. Abdiyeva, N. Turebekov, A. Dmitrovskiy, L. Yeraliyeva, R. Yegemberdiyeva, Z. Shapiyeva, Z. Kachiyeva, D. Hoeper, L. Ziyadina, A. Zhalmagambetova, J. Zinner, S. Essbauer, S. Frey
- N10 **Isolation and characterization of a novel paramyxovirus related to both murine and human respiroviruses 1**
L. Kauer, A. Konrath, K. Klose, K. Hoffmann, D. Höper, A. Pohlmann, M. Beer
- N11 **Diversity of viruses in bats from the Daintree Rainforest**
C. Kohl, A. Kurth, A. Burroughs, B. Clayton, A. Nitsche, S. Todd, H. Spencer, G. Cramer, I. Smith, L.-F. Wang
- N12 **High variability and distinct geographic clustering of Hantavirus sequences from Banana pipistrelle bats (*Neoromicia nanus*) in Côte d'Ivoire**
L. Kouadio, S. Köndgen, K. Nowak, S. Weiss, S. Calvignac-Spencer, E. Couacy-Hymann, B. Klempa, P. T. Witkowski, D. H. Krüger, F. Leendertz
- N13 **The European polecat, *Mustela putorius*, as a host for ticks but not for tick-borne pathogens?**
N. Król, A. Obiegala, F. Kretschmar, D. Hamel, M. Pfeffer
- N14 **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
- N15 **Low Zika virus (ZIKV) prevalence and no interference of pregnancy and malaria on the performance of a ZIKV ELISA in Nigeria, 2016**
P. Mathé, D.Z. Egah, N.Y. Shehu, C. Yilgwan, S.S. Gomerep, V.C. Pam, S. David, I. Abok, K.I. Onyedibe, M.O. Okolo, E. Obishakin, D.D. Ologbo, S.I. Ejiji, S.S. Machanga-Mabula, C.J. Attah, S. Oguche, M. Panning
- N16 **High seroprevalence against Zika virus in Salvador, north-eastern Brazil limits the potential for further outbreaks**
E. M. Netto, A. Moreira-Soto, C. Pedrosa, C. Höser, S. Funk, A. J. Kucharski, B. M. Kümmerer, G. Souza Sampaio, E. Luz, S. Nunes Vaz, J. Pereira Dias, F. Anjos Bastos, R. Cabral, T. Kistemann, X. de Lamballerie, T. Jaenisch, O. J. Brady, C. Drosten, M. Sarno, C. Brites, J. F. Drexler
- N17 **Novel anthroponotic transmission of human coronavirus OC43 to habituated great apes**
L. V. Patrono, L. Nourifar, R. M. Wittig, S. Calvignac-Spencer, F. H. Leendertz
- N18 **Diversity of ticks and tick-borne pathogens from areas at the Black Sea in Bulgaria**
A. Obiegala, N. Król, J. Nader, V. Biewener, M. Marklewitz, S. Junglen, M. Pfeffer
- N19 **Swarm incursions of multiple reassortants of highly pathogenic avian H5 influenza strains during winter 2016/17 in Germany**
A. Pohlmann, T. Harder, E. Starick, C. Grund, D. Hoffmann, G. Strebelow, D. Höper, Anja Globig, Christoph Staubach, Franz J. Conraths, Thomas C. Mettenleiter, Martin Beer
- N20 **Discovery of Bluetongue virus, Tibet orbivirus and a novel rhabdovirus in**

- mosquitoes from Nepal**
R. Pun, F. Zirkel, M. Dhimal, I. Gautam, D.A. Groneberg, C. Drosten, U. Kuch, S. Junglen
- N21 **CCHFV infection risk in Cameroon**
M. A. Sas, M. Mertens, A. Vina-Rodriguez, S. Abah, R. P. Namegni, A. Wade, A. Souley, Martin H. Groschup
- N22 **Hantaviruses in the natural host and in “spillover”-infected animals**
E. Schlohsarczyk, J. Freise, S. Drewes, G. Heckel, J.P. Teifke, C. Herden, R.G. Ulrich
- N23 **Detection of *Arcobacter* spp. along the intestinal tract of broiler chickens**
A. Schönknecht, T. Alter, G. Götz
- N24 **First molecular biological analysis of Tick-borne encephalitis virus in Akmola Oblast and East Kazakhstan Oblast**
A. Shin, N. Tukhanova, K. Abdiyeva, N. Turebekov, Z. Shapiyeva, R. Yegemberdiyeva, L. Yeraliyeva, G. Zhumabayeva, A. Zhalmagambetova, E. Wagner, S. Essbauer, S. Frey
- N25 **Screening of zoo animals for markers of hepatitis E virus infection**
C. Spahr, R. Ryll, T. Knauf-Witzens, M.H. Groschup, R.G. Ulrich, R. Johne
- N26 **Zoonotic viruses detected in free-living animals in the Czech Republic**
P. Straková, M. Heroldová, H. Blažejová, I. Rudolf, Z. Hubálek
- N27 **Seroprevalence of West Nile virus (WNV) in horses in selected locations of the Republic of Serbia**
A. Vasić, D. Vojinović, M. Valčić, C. Silaghi
- N28 **New Hepatitis E Virus Genotypes in Rodents, China**
B. Wang, X.-L. Yang, C.-T. Bock, Z.-L. Shi
- N29 **Characterization of *Arcobacter* spp. isolated from retail seafood in Germany**
X. Zhang, T. Alter, G. Götz
- N30 **Sindbis virus – a wildbird associated zoonotic arbovirus also circulating in Central Europe?**
U. Ziegler, M. Keller, M. Eiden, D.E. Scheuch, D. Cadar, J. Schmidt-Chanasit, M.H. Groschup

Session: Public Health and Social Issues of Zoonoses Research

- H01 **Added value via crowdsourcing? An innovative exchange forum for science & public health**
B. Schauer, M. Otto, P. Tinnemann, U. Teichert, A. Buyx, B. Prainsack

Session: Free Topics

- F01 **First detection of *Ehrlichia* sp. HF in *Ixodes apronophorus*, a neglected tick species in Romania**
M.O. Andersson, G. Radbea, D. Frangoulidis, H. Tomaso, F. Rubel, S. Nava, L. Chitimia-Dobler
- F02 **Susceptibility of avian influenza viruses to neuraminidase inhibitors**
S. Duwe, J. Milde, T. Harder, B. Schweiger
- F03 **Landscaping of cytomegaloviruses from wild African ape populations indicates high species-specificity**
S. Murthy, F. H. Leendertz, M. A. Jarvis, S. Calvignac-Spencer, B. Ehlers
- F04 **Characterization of a new flavivirus isolated from sandflies in Panama**
A. Ghiffari, M. Marklewitz, A. Kopp, U. Kuch, D. Groneberg, C. Drosten, S. Junglen
- F05 **A comparative analysis of subsampling methods to estimate the number of specimens and species in large mosquito samples**
L. Jaworski, WP. Pfitzner, S. Jansen, M. Beck, E. Tannich, J. Schmidt-Chanasit, N. Becker, E. Kiel, R. Lühken
- F06 **Phylogenetic analysis of Cetacean morbilliviruses**
W. K. Jo, A. Habierski, J. Kruppa, C. Centelleghé, S. Mazzariol, G. Di Guardo, U. Siebert, E. van der Vries, T. Kuiken, A. Osterhaus, M. Ludlow
- F07 **Bat Astrovirus Diversity: Insights into Virus Evolution Deduced from Sequence Information of the RNA-dependent RNA polymerase (RdRp) Gene**
A. Köhler, V. Zeus, K. Fischer, G. Kerth, M. Hasselmann, M. H. Groschup, A. Balkema-Buschmann
- F08 **Development of a vaccination strategy against *Bacillus anthracis* and related pathogens in great apes**
A. Lang, S. Köhler, R. Wittig, F. Leendertz
- F09 **Novel Double-Attenuated Influenza A Live Vaccines in Swine**
S. Mamerow, R. Scheffter, O. Stech, C. Schröder, U. Blohm, T. Schwaiger, R. Ulrich, T. C. Mettenleiter, J. Stech
- F10 **Genetic variability of *Rickettsia africae* in Adama, Oromia Region, Ethiopia**
S. Wölfel, G. Dobler, D. Häussinger, T. Beyene Tufa, T. Feldt, M. Bosselmann, T. Nordmann, S. Poppert, L. Chitimia-Dobler
- F11 **Decontamination of infrastructure and laboratory equipment in high-containment facilities by peracetic acid fumigation**
J. Schinköthe, S. Reiche, M. Eschbaumer, S. Diederich, J. P. Teifke
- F12 ***Mycobacterium genavense* infections in captive birds**
A. Schmitz, M. Rinder, R. Korb
- F13 **The largest *Campylobacter coli* outbreak in Germany, associated with mincemeat consumption, May 2016**
C. Siffczyk, M. Smuskiewicz, K. Weise, B. Rosner, A. Fruth, R. Prager, W. Rabsch, M. Hausner, C. Friedrich, G. Ellsäßer
- F14 **Vector competence of European mosquitos for zoonotic *Dirofilaria* spp.**
C. Silaghi, C. Tochtermann, R. Beck, M. Pfeffer, G. Capelli, F. Montarsi, A. Mathis

