
Program, Thursday, October 16, 2014

08:00 Registration Opens (Poster Mounting)

10:00 – 12:00 PLENARY SESSION 1

Ballroom

Chairs: **Jürgen A. Richt**, USA
Stephan Ludwig, Germany

10:00 Opening Remarks

10:30 SYLVATIC DENGUE - THE FORGOTTEN RE-EMERGING ZONOSIS
N. Vasilakis, USA

11:15 MERS CoV, STUDIES AT THE HUMAN ANIMAL INTERFACE
M. Koopmans, The Netherlands

12:00 *Lunch*

13:00 *Poster Viewing Session*

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14:00 – 15:30 SESSION 1: *Ballroom*
(NEW AND RE-) EMERGING ZONOTIC DISEASES
PART A

Chairs: **Heinz Feldmann**, USA
Sandra Diederich, Germany

- 14:00 EXPERIMENTAL INFECTION OF CALVES WITH *ESCHERICHIA COLI* O104:H4
K. Hamm, S. Barth, S. Stalb, E. Liebler-Tenorio, J.P. Teifke, E. Lange, G. Kotterba, E. Dean-Nystrom, M. Bielaszewska, H. Karch, C. Menge, Germany
- 14:15 *IN VITRO AND IN VIVO* CHARACTERIZATION OF BOKELOH BAT LYSSAVIRUS – A RECENTLY DISCOVERED NOVEL VIRUS THAT CAUSES BAT RABIES
C. Freuling, T. Nolden, A. Banyard, D. Horton, T. Fooks, J. Teifke, T. Mettenleiter, T. Müller, Germany
- 14:30 THE DETECTION AND CHARACTERIZATION OF TICK-BORNE ENCEPHALITIS VIRUS STRAINS OF EUROPEAN SUBTYPE ISOLATED IN WESTERN AND EASTERN SIBERIA OF RUSSIA
I. Kozlova, **S. Tkachev**, Y. Dzhiyev, M. Verkhozina, E. Doroschenko, O. Lisak, T. Demina, O. Suntsova, A. Paramonov, A. Lyapunov, A. Borisenko, N. Tikunova, D. Růžek, Russia
- 14:45 CHARACTERIZATION OF UNCULTIVABLE BAT INFLUENZA VIRUS USING A REPLICATIVE SYNTHETIC VIRUS
W. Ma, B. Zhou, J. Ma, Q. Liu, B. Bawa, W. Wang, R. Shabman, M. Duff, J. Lee, Y. Lang, J. Richt, D. Wentworth, USA
- 15:00 TWO INDEPENDENT EVOLUTIONARY PATHWAYS OF HPAIV
O. Stech, J. Veits, S. Abdelwhab, U. Wessels, T.C. Mettenleiter, **J. Stech**, Germany
- 15:15 ESTABLISHMENT OF THE INFECTION MODEL “BANK VOLE”
S. Röhrs, R.G. Ulrich, C. Drosten, J.F. Drexler, M. Keller,

B. Hoffmann, D. Hoffmann, M. Beer, Germany

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**14:00 – 15:30 SESSION 2: ECOLOGY OF
EMERGING ZOOSES**

Room Steglitz

Chairs: **Lothar H. Wieler**, Germany
Sandra Junglen, Germany

- 14:00 RICKETTSIA DIVERSITY IN SMALL MAMMALS FROM SOUTH AFRICA
S.S. Essbauer, M. Hofmann, D. Huhle, K. Klett, S. Mathee, Germany
- 14:15 GERMAN *Aedes japonicus japonicus* (DIPTERA: CULICIDAE) LACK VECTOR COMPETENCE FOR WEST NILE VIRUS DUE TO GENETIC DIFFERENTIATION
K. Huber, **S. Jansen**, K. Schuldt, M. Rudolf, M. Leggewie, M. Badusche, D.M. Fonseca, A. Krüger, E. Tannich, S.C. Becker, Germany
- 14:30 EFFECTS OF LANDSCAPE AND MOSQUITO COMMUNITY ON WEST NILE VIRUS INCIDENCE IN WILD BIRDS
M. Ferraguti, J. Martínez-de la Puente, D. Roiz, S. Ruiz, R. Soriguer, J. Figuerola, Spain
- 14:45 FERAK VIRUS AND JONCHET VIRUS REPRESENT TWO NOVEL LINEAGES OF INSECT-RESTRICTED BUNYAVIRUSES
M. Marklewitz, F. Zirkel, A. Kurth, C. Drosten, S. Junglen, Germany
- 15:00 GLOBAL CHANGES AND WILDLIFE ZOO NOTIC DISEASES EMERGENCE: THE CASE OF TICK-BORNE ENCEPHALITIS (TBE)
A. Rizzoli, D. Arnoldi, L. Bolzoni, F. Cagnacci, H.C. Hauffe, M. Neteler, C. Rossi, V. Tagliapietra, R. Rosà, Italy
- 15:15 NOVEL DIVERGENT VIRUSES DISCOVERED IN MOSQUITOES CAPTURED FROM DIFFERENT COUNTRIES OF EUROPE AND SENEGAL
A. Vázquez, M. Wiley, L. Cuevas, L. Herrero, S. Ruiz, M. Diallo, M. Grisenti, E. Pérez-Pastrana, L. Orshan, G. Fall, R.C. Soriguer, A. Rizzoli, H. Bin, N. Nowotny, G. Palacios, A. Tenorio,

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14:00 – 15:30 SESSION 3: EPIDEMIOLOGY, Room Zehlendorf
MODELING AND PREDICTION

Chairs: **Lothar Kreienbrock**, Germany
Sophie Rettenbacher-Riefler, Germany

- 14:00 RISK FACTORS ASSOCIATED WITH SEROPOSITIVITY AGAINST
 TOXOPLASMA GONDII: RESULTS FROM THE FIRST
 REPRESENTATIVE SEROSURVEY OF ADULTS IN GERMANY
 H. Wilking, M. Thamm, A. Aebischer, K. Stark, F. Seeber,
 Germany
- 14:15 SUCCESS IN DIVERSITY - INSIGHTS INTO THE POPULATION
 STRUCTURE OF *E. COLI*
 T. Semmler, T.R. Connor, D.J. Pickard, R.A. Kingsley,
 N. Ahmed, C. Ewers, G. Dougan, N.R. Thomson, J. Corrande,
 L.H. Wieler, Germany
- 14:30 EARLY WARNING OF WEST NILE VIRUS MOSQUITO VECTOR:
 CLIMATE AND LAND USE MODELS SUCCESSFULLY EXPLAIN
 PHENOLOGY AND ABUNDANCE OF *CULEX PIPIENS* MOSQUITOES
 IN NORTH-WESTERN ITALY
 R. Rosà, G. Marini, L. Bolzoni, M. Neteler, M. Metz, L. Delucchi,
 E.A. Chadwick, L. Balbo, A. Mosca, M. Giacobini, L. Bertolotti,
 A. Rizzoli, Italy
- 14:45 DISENTANGLING THE ECOLOGICAL CONDITIONS AFFECTING
 WEST NILE VIRUS HAZARD IN THE OLD WORLD
 M. Marcantonio, A. Rizzoli, M. Metz, R. Rosà, G. Marini,
 E. Chadwick, M. Neteler, Italy
- 15:00 AN EPIDEMIOLOGICAL STUDY OF CANINE ECHINOCOCCOSIS
 AND LIVESTOCK HYDATIDOSIS IN SUDAN
 N. Abass, M. Herzig, G. Boubaker, A.A. Elfadil, F.J. Conraths,
 Germany

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14:00 – 15:30 SESSION 3: EPIDEMIOLOGY, *Room Zehlendorf*
MODELING AND PREDICTION *Continued*

15:15 THE POTENTIAL FOR RESPIRATORY DROPLET–TRANSMISSIBLE
A/H5N1 INFLUENZA VIRUS TO EVOLVE IN A MAMMALIAN HOST
J.M. Fonville, C. Russell, A. Brown, D. Burke, D. Smith,
S. James, S. Herfst, S. van Boheemen, M. Linster, E. Schrauwen,
L. Katzelnick, A. Mosterin, T. Kuiken, E. Maher, G. Neumann,
A. Osterhaus, Y. Kawaoka, R. Fouchier, D. Smith, UK

15:30 Coffee Break and Poster Viewing

16:00 AWARD OF THE GERMAN ACADEMY OF VETERINARY
HEALTH (AKADEMIE FUER TIERGESUNDHEIT)

16:30 – 17:30 CURRENT EBOLA VIRUS OUTBREAK *Ballroom*
IN WEST AFRICA

17:30 – 19:30 General Assembly: *Room Steglitz-Zehlendorf*
German Research Platform for Zoonoses
(IN GERMAN)

19:30 *Welcome Reception/Social Dinner*

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08:00 – 09:00 YOUNG SCIENTISTS BREAKFAST *Pavillon Room*

09:00 – 10:30 SESSION 4: (NEW AND RE-) *Ballroom*
EMERGING ZOO NOTIC DISEASES PART B

Chairs: **Marcel A. Müller**, Germany
Linda Brunotte, Germany

- 09:00 CLINICAL COURSE OF INFECTION AND TISSUE TROPISM OF HEPATITIS C VIRUS-LIKE HEPACIVIRUSES IN HORSES
S. Walter, S. Pfaender, J.M.V. Cavalleri, J. Doerrbecker, B. Campana, R.J.P. Brown, P.D. Burbelo, A. Postel, K. Hahn, A. Kusuma, N. Riebesehl, W. Baumgärtner, P. Becher, M.H. Heim, T. Pietschmann, K. Feige, E. Steinmann, Germany
- 09:15 SALMONELLA CO-OPTS FOR CMA FOR ITS INTRACELLULAR GROWTH AND SURVIVAL
V. Singh, J. Finke, P. Schwert, K. Tedin, Germany
- 09:30 THE TICK-BORNE PATHOGEN *CANDIDATUS NEOEHLICHA MIKURENSIS* IN *IXODES RICINUS* AND NATURAL VERTEBRATE HOSTS IN SOUTHERN SWEDEN
M. Andersson, Sweden
- 09:45 *CULEX PIPPIENS* AND *CULEX TORRENTIUM* MOSQUITOES FROM GERMANY HAVE VECTOR COMPETENCE FOR WEST NILE VIRUS
M. Leggewie, M. Badusche, M. Rudolf, S. Jansen, J. Börstler, K. Huber, E. Tannich, A. Krüger, J. Schmidt-Chanasit, S.C. Becker, Germany
- 10:00 VIRUS DISCOVERY IN MOSQUITOES FROM THE NEOTROPICS
A. Kopp, A. Hübner, F. Zirkel, D. Hobelsberger, A. Estrada, T. Gillespie, C. Drosten, S. Junglen, Germany
- 10:15 DETECTION OF NGARIVIRUS, A HIGHLY VIRULENT ORTHOBUNYAVIRUS IN SMALL RUMINANTS FROM MAURITANIA
M. Eiden, A. Vina-Rodriguez, B.O. El Mamy, K. Isselmou,

U. Ziegler, D. Höper, S. Jäckel, A. Balkema-Buschmann, H. Unger,
B. Doumbia, M.H. Groschup, Germany

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**09:00 – 10:30 SESSION 5: NOVEL METHODS
AND DIAGNOSTICS**

Room Steglitz

Chairs: **Jürgen A. Richt**, USA
Anne Balkema-Buschmann, Germany

- 09:00 ANTI-IDIOTYPIC ANTIBODIES IN DIAGNOSIS OF
OPISTHORCHIASIS
A. Bulashev, S. Serikova, S. Eskendirova, Kazakhstan
- 09:15 DEVELOPMENT OF A CELL CULTURE SYSTEM FOR
HEPATITIS E VIRUS
R. Johne, E. Trojnar, J. Reetz, P. Nickel, R.G. Ulrich,
P. Machnowska, J. Sachsenroeder, J. Hofmann, Germany
- 09:30 EVALUATION OF AN INDIRECT ELISA USING A TACHYZOITE
SURFACE ANTIGEN SAG1 FOR DIAGNOSIS OF *TOXOPLASMA*
GONDII INFECTION IN CATS
F. Hosseini, M. Hosseininejad, Iran
- 09:45 *MYCOBACTERIUM AVIUM SUBSP. PARATUBERCULOSIS* SHEEP
STRAIN JIII-386: SEQUENCING, ASSEMBLING, ANNOTATION,
AND GENOME COMPARISON
P. Möbius, M. Hölzer, M. Felder, G. Nordsiek, M. Groth,
H. Köhler, K. Reichwald, M. Platzer, M. Marz, Germany
- 10:00 HYGIENISATION OF *MYCOBACTERIUM FORTUITUM* IN CATTLE
MANURE THROUGH LACTIC ACID FERMENTATION
H.A. Scheinemann, M. Krüger, Germany
- 10:15 ENZYME-LINKED IMMUNOSORBENT ASSAYS FOR DETECTION OF
ANTIBODIES TO THE NOVEL LLOVIU (FILOVIRUS) AND CRIMEAN
CONGO HEMORRHAGIC FEVER VIRUSES LOCATED IN SPAIN
E. Ramírez de Arellano, M. Ortiz, F. Lasala, P. López,
M.J. Perteguer, L. Fernández, M.Á. Habela, A. Estrada-Peña,
G. Palacios, M.P. Sánchez-Seco, A. Tenorio, A. Negrodo, Spain

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09:00 – 10:30 **SESSION 6: PATHOGEN-CELL
INTERACTION AND IMMUNITY**

Room Zehlendorf

Chairs: **Allison Groseth**, USA
Wenjun Ma, USA

- 09:00 INEFFICIENT CELLULAR TRANSPORT OF THE ATTACHMENT
GLYCOPROTEIN OF THE AFRICAN HENIPAVIRUS M74 PLAYS A
MAJOR ROLE FOR THE RESTRICTED FUNCTIONAL ACTIVITY
N. Krüger, M. Hoffmann, M.A. Müller, J.F. Drexler,
C. Drosten, G. Herrler, Germany
- 09:15 PITUITARY ADENYLATE CYCLASE-ACTIVATING
POLYPEPTIDE (PACAP) TREATMENT AMELIORATES
TOXOPLASMA GONDII- INDUCED ENCEPHALITIS IN
MICE
A. Parlog, L. Möhle, A. Biswas, D. Reglodi,
M.M. Heimesaat, I.R. Dunay, Germany
- 09:30 FLU´S FIRST DEFENSE AGAINST IFN: VIRAL SUPPRESSORS OF
TYPE I IFN RESPONSE ARE PREPACKAGED IN INFLUENZA A
VIRUS VIRIONS
S. Liedmann, E.R. Hrinčius, C. Guy, D. Anhlan, R. Dierkes,
G. Wu, D.R. Green, T. Wolff, J.A. McCullers, S. Ludwig,
C. Ehrhardt, Germany
- 09:45 MOLECULAR BASIS FOR DISRUPTION OF E-CADHERIN
ADHESION BY BOTULINUM NEUROTOXIN A COMPLEX
K. Lee, X. Zhong, S. Gu, A.M. Kruel, M.B. Dorner, K. Perry,
A. Rummel, M. Dong, R. Jin, Germany
- 10:00 NOVEL IMMUNOSTIMULATORY FLAGELLIN-LIKE PROTEIN FLAC
IN *CAMPYLOBACTER JEJUNI* AND OTHER *CAMPYLOBACTEREALES*
E. Leno, E. Gripp, S. Maurischat, B. Kaspers, K. Tedin, S. Klose,
C. Josenhans, Germany

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09:00 – 10:30 SESSION 6: PATHOGEN-CELL Room Zehlendorf
INTERACTION AND IMMUNITY *Continued*

- 10:15 HUMAN CORONAVIRUS REPLICATION IS CYCLOPHILIN A-DEPENDENT AND INHIBITED BY NOVEL NON-IMMUNOSUPPRESSIVE CYCLOSPORINE A-DERIVATIVES INCLUDING ALISPORIVIR AND NIM811
A. Von Brunn, J. Carbajo-Lozoya, Y. Ma-Lauer, B. von Brunn, P. Mayrhofer, R. Hilgenfeld, S. Kallies, D. Muth, M.A. Müller, C. Drosten, S. Ciesek, M. Malešević, G. Fischer, Germany

10:30 Coffee Break and Poster Viewing

11:00 – 12:30 SESSION 7: RESERVOIRS OF Room Steglitz
ZOOZOSES

Chairs: **Sandra S. Essbauer**, Germany
Claudia Kohl, Germany

- 11:00 SEROLOGICAL EVIDENCE OF INFLUENZA A VIRUSES IN BATS FROM AFRICA
G.S. Freidl, T. Binger, M.A. Müller, E. de Bruin, J. van Beek, V.M. Corman, A. Rasche, J.F. Drexler, A. Annan, S. Oppong, Y. Adu-Sarkodie, M. Tschapka, V.M. Cottontail, M. Knörnschild, C. Drosten, M. Koopmans, The Netherlands, Germany and Ghana
- 11:15 EPITHELIAL CELL LINES FROM BATS, RODENTS AND INSECTIVORES – A NOVEL TOOL FOR *IN VITRO* INVESTIGATION OF PATHOGEN-HOST INTERACTION
I. Eckerle, R. Ulrich, A. Rang, B. Klempa, L. Radosa, M.A. Müller, C. Drosten, Germany
- 11:30 EXPLORING THE METABOLIC INTERFACE BETWEEN THE GASTROINTESTINAL PATHOGEN CAMPYLOBACTER, ITS HOST AND THE MICROBIOTA
J. Mohr, H. Vorwerk, C. Huber, P. Grüning, K. Methling, A. von Altmann, O. Wensel, S. Bhujji, J. Kamphues, T. Alter, A. Flieger, K. Schmidt-Hohagen, D. Schomburg, M. Lalk, W. Eisenreich, P. Valentin-Weigand,
D. Hofreuter, Germany

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11:00 – 12:30 SESSION 7: RESERVOIRS OF ZOOZOSES *Continued* *Room Steglitz*

- 11:45 CLONALITY AMONG ESBL-PRODUCING *E. COLI* OF SEQUENCE TYPES (ST) 131, ST410 AND ST167 ISOLATED FROM HUMAN CLINICAL AND AVIAN WILDLIFE SAMPLES FROM THE CITY OF BERLIN, GERMANY
M. Wöhrmann, K. Schaufler, K. Müller, T. Semmler, R. Leistner, A. Kola, L.H. Wieler, **S. Guenther**, Germany
- 12:00 VARIOUS WAYS OF SHEDDING OF BORNA DISEASE VIRUS IN LIVING BICOLORED WHITE-TOOTHED SHREWS
D. Nobach, M. Bourg, S. Herzog, H. Lange-Herbst, J.A. Encarnação, M. Eickmann, C. Herden, Germany
- 12:15 SURVEILLANCE OF ERADICATION OF MRSA AND ESBL-E ON A MODEL PIG FARM
R. Schmithausen, S. Kellner, S. Schulze-Geisthoevel, S. Hack, G. Bierbaum, A. Hoerauf, M. Exner, B. Petersen, I. Bekeredjian-Ding, Germany

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**11:00 – 12:30 SESSION 8: RISK ASSESSMENT
& PUBLIC HEALTH**

Ballroom

Chairs: **Robin Koeck, Germany**
Szilvia Vincze, Germany

- 11:00 MOLLUSCAN VIBRIO SPECIES IN CANADA'S ESTUARIES:
A. LONGITUDINAL STUDY OF TREND AND DYNAMICS IN
TEMPERATE WATERS
S.K. Banerjee, J.M. Farber, Canada
- 11:15 AN OBSERVATIONAL STUDY OF AN OUTBREAK OF MERS-
CORONAVIRUS IN JEDDAH, KSA, IN 2014
D. Muth, V. Corman, R. Hussain, H. Madani, A. Zumla,
A. Al Shangiti, Z. Memish, C. Drosten, Germany
- 11:30 TRICHINELLOSIS – A NEGLECTED ZOONOSIS IN GERMANY?
K. Nöckler, S. Reckinger, A. Mayer-Scholl, Germany
- 11:45 EFFICACY TESTING OF INACTIVATION METHODS FOR
FILOVIRUSES
E. Haddock, F. Feldmann, H. Feldmann, USA
- 12:00 ESBL-PRODUCING *E. COLI* FROM ANIMAL AND HUMAN SOURCES
– WHAT DO THEY SHARE?
H. Sharp, L. Valentin, K. Hille, U. Seibt, J. Fischer, Y. Pfeifer,
G. Brenner Michael, S. Nickel, J. Schmiedel, L. Falgenhauer,
A. Frieze, R. Bauerfeind, U. Rösler, C. Imirzalioglu,
T. Chakraborty, R. Helmuth, G. Valenza, G. Werner, S. Schwarz,
B. Guerra-Roman, B. Appel, L. Kreienbrock, A. Käsbohrer,
Germany
- 12:15 MRSA INFECTIONS IN COMPANION ANIMALS:
CHARACTERIZATION OF RISK FACTORS
S. Vincze, A.G. Brandenburg, W. Espelage, I. Stamm,
L.H. Wieler, P.A. Kopp, A. Lübke-Becker, B. Walther, Germany

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11:00 – 12:30 SESSION 9: VARIOUS TOPICS *Room Zehlendorf*

Chairs: **Klaus Osterrieder**, Germany
Marketa Derdáková, Slovakia

- 11:00 PATHOGENIC NEMATODES FOUND IN FISH AND FISHERY PRODUCTS MADE OF PINK SALMON (*ONCORHYNCHUS GORBUSCHA*) FROM MARKETS IN POLAND
M. Rozycki, E. Bilka-Zajac, E. Chmurzynska, T. Cencek, M. Kochanowski, Poland
- 11:15 MOLECULAR DETERMINANTS OF VIRULENCE OF EMERGING TICK-BORNE PHLEBOVIRUSES: FROM PHLYLOGENETIC TREES TO THE MOLECULAR BASIS OF PATHOGENESIS
K. Matsuno, C. Matysiak, C. Weisend, **A. Groseth**, H. Ebihara, USA
- 11:30 AN INFECTIOUS BAT CHIMERIC INFLUENZA VIRUS HARBORING THE ENTRY MACHINERY OF A CONVENTIONAL INFLUENZA A VIRUS
M. Juozapaitis, É. Aguiar Moreira, I. Mena, S. Giese, D. Riegger, A. Pohlmann, D. Höper, G. Zimmer, M. Beer, A. García-Sastre, **M. Schwemmle**, Germany
- 11:45 CHARACTERIZATION OF GUAROA VIRUS GENETIC DIVERSITY, EVOLUTION AND SPREAD
A. Groseth, K.K. Wollenberg, V. Mampilli, T. Shupert, C. Matysiak, C. Weisend, T.J. Kochel, R.B. Tesh, H. Ebihara, USA
- 12:00 EFFECTS OF CATHELICIDIN ANTIMICROBIAL PEPTIDES AGAINST LIVESTOCK-ASSOCIATED METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS*
S. Blodkamp, K. Kadlec, H.Y. Naim, S. Schwarz, **M. von Köckritz-Blickwede**, Germany

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12:30 Lunch

13:30 Poster Viewing

14:30 – 16:00 PLENARY SESSION 2

Ballroom

Chair: **Martin Groschup**, Germany

14:30 CHALLENGES FOR ZOOZOSES RESEARCH IN GERMANY AND
WORLDWIDE

J. Hacker, Germany

15:15 NEW HOST SPECIFIC INFECTION BIOLOGY ASPECTS OF
YERSINIA ENTEROCOLITICA

P. Dersch, Germany

**16:00 – 16:30 POSTER AWARDS
AND CLOSING CEREMONY**

Ballroom
