

8th INTERNATIONAL CONFERENCE ON EMERGING ZOOZOSES



FOCUSING ON EMERGING & TRANSBOUNDARY INFECTIOUS DISEASES

May 7-10, 2017 • Manhattan, Kansas, USA



PROGRAM



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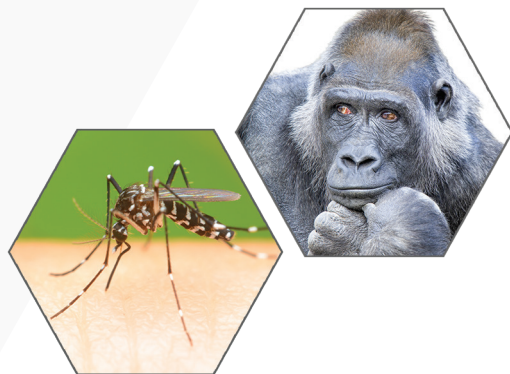
EXHIBITORS

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CO-CHAIRS



Heinz Feldmann
USA



Jürgen A. Richt
USA

LOCAL ORGANIZING COMMITTEE

Tammy Beckham
Roman Ganta
Keith Hamilton
Philip Hardwidge
Stephen Higgs
Harish Minocha
David Renter
Raymond R. Rowland
William Wilson

GENERAL INFORMATION

> VENUE

Hilton Garden Inn Manhattan & Manhattan Conference Center
410 South 3rd Street
Manhattan, KS 66502
Ph: 785-532-9116

> LANGUAGE

The Conference will be conducted in English.

> REGISTRATION / INFORMATION

A registration desk will operate outside the session hall throughout session hours.

> SESSION HALL

All sessions will take place in Ballrooms A, B & C.

> NAME BADGE

Your name badge is included in the material which you received upon registration. Please wear your badge to all conference sessions.

> CONFERENCE APP

The full program and abstracts can be viewed on the conference app. Login details to the app were sent to you prior to the conference. If you do not have the information available please ask at the registration desk.

> POSTERS

Posters will be on display in the foyer outside the lecture hall for the duration of the conference. Presenters are requested to refer to the program book to find the board number assigned to them. Please use the poster board with the same number.

Posters should be removed by the end of sessions. Please note that the organizers cannot be held responsible for posters that are not removed. The poster session will take place on Monday, May 8 at 19:30. Drinks will be served.

> EXHIBITION

An exhibition will take place throughout the conference.

>> GENERAL INFORMATION

> COFFEE BREAKS

The coffee breaks will take place alongside the exhibition in the foyer area outside the session hall.

> BREAKFASTS & LUNCHES

For invited speakers and those participants that purchased the food package, breakfasts and lunches will take place in Ballroom D (Big Basin). Entrance is by voucher.

CONFERENCE ORGANIZERS



Target Conferences Ltd.

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GET-TOGETHER RECEPTION

The reception will take place on Sunday, May 7 at 19:00 in the foyer area outside the session hall. *Entrance is by voucher only.*

CONFERENCE DINNER

The dinner will take place at Colbert Hills Golf Course & Restaurant on the evening of Tuesday, May 9. Tickets cost \$60. If you have not yet purchased your ticket please check availability at the onsite registration desk. Buses will depart from the conference hotel at 19:15. *Entrance is by voucher only.*



SCIENTIFIC PROGRAM



> SUNDAY, MAY 7, 2017

14:30 Registration Opens

17:15-17:30 WELCOME ADDRESSES

Chair: Jürgen A. Richt, USA

April Mason, Provost and Senior Vice President, Kansas State University, USA

Tammy Beckham, Dean, Kansas State University, USA

Ron Trewyn, NBAF Liaison, Office of the President, Kansas State University, USA

17:30-18:30 Session 1: OPENING LECTURES

Chair: Heinz Feldmann, USA

17:30 *Keynote Speaker:*
ROLE OF INFLUENZA VIRUS HOST-INTERACTIONS IN HOST TROPISM
Adolfo Garcia-Sastre, USA

18:00 *Keynote Speaker:*
AFRICAN SWINE FEVER: DANGERS OF A NON-ZOONOTIC DISEASE
RE-EMERGENCY IN EUROPE
Carlos Martins, Portugal

19:00 Get-Together Reception

> MONDAY, MAY 8, 2017

08:30 – 10:30 Session 2: PATHOGEN DISCOVERY

Chairs: Harish Minocha, USA and Stacey Schultz-Cherry, USA

- 08:30 *Keynote Speaker:*
FROM BIRDS TO BORNA... ZONOSIS RESEARCH ON INSEL RIEMS
Thomas C. Mettenleiter, Germany
- 09:00 *Keynote Speaker:*
MICROBE HUNTING: FROM AUTISM TO ZIKA
W. Ian Lipkin, USA
- 09:30 *Keynote Speaker:*
ASSESSMENT OF THE PANDEMIC POTENTIAL OF MERS-COV
Vincent Munster, USA
- 10:00 *Free Communication:*
INFECTION WITH THE NOVEL ZONOTIC VARIEGATED SQUIRREL BORNAVIRUS 1 (VSBV-1) IS STRIKINGLY DIFFERENT IN NATURALLY INFECTED SQUIRRELS AND HUMANS
Christiane Herden, Germany
- 10:15 *Free Communication:*
RAPID DIAGNOSIS AND SURVEILLANCE OF EMERGING DISEASES USING A BROAD-SPECTRUM MICROBIAL DETECTION ARRAY
Crystal Jaing, USA

10:30 - 11:00 Coffee, Poster Viewing & Visit the Exhibition

> MONDAY, MAY 8, 2017 (CONTINUED)

11:00 – 12:45 Session 3: EPIDEMIOLOGY

Chairs: **David Renter**, USA and **Francisco Veas**, France

- 11:00 *Keynote Speaker:*
CHIKUNGUNYA: A DEEP LOOK INTO ACUTE AND CHRONIC FORMS OF DISEASE
Alfonso J. Rodríguez-Morales, Colombia
- 11:30 *Keynote Speaker:*
ZOO NOTIC DISEASES OF THE MIDDLE EAST: EPIDEMIOLOGY AND RISK
FACTORS ANALYSIS
Ahmad Al Majali, Jordan
- 12:00 *Free Communication:*
VECTOR-ENHANCED TRANSMISSION MECHANISMS OF CULICOIDES MIDGES
Barbara Drolet, USA
- 12:15 *Free Communication:*
DETECTION OF ZOO NOTIC ARBOVIRUSES IN WILDLIFE WITH NEUROLOGICAL
AND RESPIRATORY SIGNS IN SOUTH AFRICA
Marietjie Venter, South Africa
- 12:30 *Free Communication:*
EXPANSION OF GENETIC DIVERSITY OF INFLUENZA A VIRUSES IN SWINE IN
SOUTHEAST MEXICO SINCE 2009
Martha Nelson, USA

12:45 – 14:00 Lunch Break

14:00 – 16:00 Session 4: VACCINOLOGY

Chairs: **Raymond R. Rowland**, USA and **Anice Lowen**, USA

- 14:00 *Keynote Speaker:*
ANTIGEN AND DNA VACCINE DELIVERY USING AN IMPROVED RECOMBINANT
ATTENUATED SALMONELLA VACCINE PLATFORM
Roy Curtiss III, USA

> MONDAY, MAY 8, 2017 (CONTINUED)

- 14:30 *Keynote Speaker:*
IMPROVED DNA APPROACHES TO IMPORTANT EMERGING INFECTIONS
David B. Weiner, USA
- 15:00 *Keynote Speaker:*
TOWARDS A UNIVERSAL INFLUENZA VIRUS VACCINE
Peter Palese, USA
- 15:30 *Free Communication:*
NEWCASTLE DISEASE VIRUS-BASED H5 VACCINE COMPLETELY PROTECTS CHICKENS FROM LETHAL CHALLENGE OF HIGHLY PATHOGENIC H5N2 AVIAN INFLUENZA VIRUS
Wenjun Ma, USA
- 15:45 *Free Communication:*
ZONOSES BARRIER VACCINES: THIRD PILLAR OF A VACCINE TRIUMVIRATE - HERPESVIRUS-BASED VECTORS AS A VERSATILE VACCINE PLATFORM TO TARGET HUMAN EMERGING INFECTIOUS DISEASES
Michael Jarvis, United Kingdom

16:00 - 16:30 Coffee, Poster Viewing & Visit the Exhibition

16:30 - 18:00 **Session 5: BACTERIAL PATHOGENS AND ANTIMICROBIAL RESISTANCE**

Chairs: **Philip Hardwidge**, USA and **Roman Ganta**, USA

- 16:30 *Keynote Speaker:*
TOWARD RE-POTENTIATING ANTIBIOTICS AGAINST BACTERIAL BIOFILMS AND PERSISTS THROUGH AN UNDERSTANDING OF BACTERIAL PHYSIOLOGY
Garth Ehrlich, USA
- 17:00 *Keynote Speaker:*
EXPLORING THE 'ONE HEALTH' PARADIGM WITH ANTIMICROBIAL RESISTANCE: INSIGHTS FROM GENOME-BASED EPIDEMIOLOGY
Trinad Chakraborty, Germany

> MONDAY, MAY 8, 2017 (CONTINUED)

- 17:30 *Free Communication:*
ESCHERICHIA COLI IN SOUTHEASTERN AUSTRALIAN PIG HERDS AND
THIRD-GENERATION CEPHALOSPORIN RESISTANCE
Michael Ward, Australia
- 17:45 *Free Communication:*
INFORMATION LOSS FOR DESCRIBING ANTIMICROBIAL RESISTANCE DYNAMICS
IN POPULATIONS DUE TO CATEGORIZATION OF MIC FREQUENCY DISTRIBUTIONS
Victoriya Volkova, USA

18:15 – 19:15 Session 6: PANEL/ROUNDTABLE DISCUSSION

Chairs:
Hans-Dieter Klenk, Germany
Garth Ehrlich, USA
Silvio Pitlik, Israel
Francisco Veas, France
Carrie Weiss, Canada

Panel discussion on **PHILANTHROPIC APPROACHES FOR NEGLECTED DISEASES**
(Famine, Conflict, Disadvantaged Communities, Underdeveloped Societies)

19:30 Poster Session

> TUESDAY, MAY 9, 2017

08:30 – 10:00 Session 7: VIRAL PATHOGENS

Chairs: Batsukh Zayat, Mongolia and Wenjun Ma, USA

- 08:30 *Keynote Speaker:*
MECHANISMS MEDIATING THE ADAPTATION OF AVIAN INFLUENZA VIRUSES
TO MAMMALIAN HOSTS
Hans-Dieter Klenk, Germany
- 09:00 *Keynote Speaker:*
VIRUSES AT THE ANIMAL-HUMAN INTERFACE: LOOKING AT BOTH ENDS
Stacey Schultz-Cherry, USA
- 09:30 *Free Communication:*
RIFT VALLEY FEVER VIRUS GENERATES A QUASISPECIES DIVERSITY UNIQUE TO
VERTEBRATE AND INVERTEBRATE HOSTS
Vinay Shivanna, USA
- 09:45 *Free Communication:*
A Y161F HEMAGGLUTININ SUBSTITUTION INCREASES ANTIGENIC THERMOSTABILITY
AND IMPROVES YIELDS OF 2009 H1N1 INFLUENZA A VIRUS IN CELLS
Xiu-Feng Wan, USA

10:00 - 10:30 Coffee, Poster Viewing & Visit the Exhibition

> TUESDAY, MAY 9, 2017 (CONTINUED)

10:30 - 12:15 Session 8: HEMORRHAGIC FEVER VIRUSES

Chairs: Heinz Feldmann, USA and J.P. Gonzalez, USA

- 10:30 *Keynote Speaker:*
MODELS OF NIPAH AND EBOLA VIRUS INFECTION IN SWINE
Hana Weingartl, Canada
- 11:00 *Keynote Speaker:*
LASSA FEVER, SOON OVER THE HILL, BUT STILL A LOT OF QUESTIONS
Pierre Rollin, USA
- 11:30 *Free Communication:*
DESCRIPTIVE ANALYSIS OF LASSA FEVER OUTBREAK IN EDO STATE,
NIGERIA, JANUARY TO DECEMBER, 2016
Ibrahim Seriki, Nigeria
- 11:45 *Free Communication:*
CHARACTERIZING THE MECHANISM OF PROTECTION OF NOVEL EBOLAVIRUS
GLYCOPROTEIN ANTIBODIES
James E Duehr, USA
- 12:00 *Free Communication:*
FERRET MODELS OF DISEASE FOR BSL4 PATHOGENS
Glenn Marsh, Australia

12:15 - 13:30 Lunch Break

> TUESDAY, MAY 9, 2017 (CONTINUED)

13:30 - 15:30 Session 9: MICROBIAL IMMUNOLOGY

Chairs: Stephen Higgs, USA and Waithaka Mwangi, USA

- 13:30 *Keynote Speaker:*
HUMAN ANTIBODY RESPONSES TO EMERGING INFECTIOUS DISEASES
James Crowe, USA
- 14:00 *Keynote Speaker:*
FACING THE CHALLENGE OF MAKING IMMUNITY GREAT AGAIN
Barry Rouse, USA
- 14:30 *Keynote Speaker:*
MULTI-LAYERED B CELL RESPONSES TO INFLUENZA
Nicole Baumgarth, USA
- 15:00 *Free Communication:*
THE POTENTIAL OF A RESTRICTED TOLL-LIKE RECEPTOR AGONIST FOR BIOTERROR
FIRST RESPONDERS AND BEYOND
William M Mitchell, USA
- 15:15 *Free Communication:*
HUMORAL AND CROSS REACTIVE IMMUNITY TO ZIKA AND OTHER FLAVIVIRUSES
OF HABITANTS IN THE ZIKA FOREST, UGANDA AND NOVOSIBIRSK, RUSSIA
Leslie Lobel, Israel

15:30 - 16:00 Coffee, Poster Viewing & Visit the Exhibition

> TUESDAY, MAY 9, 2017 (CONTINUED)

16:00 - 18:00 Session 10: COMPARATIVE MEDICINE

Chairs: Barry Rouse, USA and Nicole Baumgarth, USA

- 16:00 *Keynote Speaker:*
SPECIES-SPECIFICITY OF HERPESVIRUSES - A CONCEPT THAT NEEDS REASSESSMENT
Klaus Osterrieder, Germany
- 16:30 *Keynote Speaker:*
DETERMINANTS OF MORBILLIVIRUS DISEASE OUTCOME
Veronika von Messling, Germany
- 17:00 *Free Communication:*
CD163 ON MACROPHAGES IS A RECEPTOR FOR PORCINE REPRODUCTIVE
AND RESPIRATORY SYNDROME VIRUS BUT NOT FOR AFRICAN SWINE FEVER VIRUS
Ana Stoian, USA
- 17:15 *Free Communication:*
ZOOONOSIS RISK ASSESSMENT OF PRIONS IN CERVID SPECIES
Qingzhong Kong, USA
- 17:30 *Free Communication:*
AFRICAN SWINE FEVER DOMESTIC CYCLE DOMINANCE AND SOCIAL-ECONOMIC
IMPACT IN TANZANIA
Clara Yona Mwasota, Tanzania
- 17:45 *Free Communication:*
HOW HOLOBIONTS GET SICK: A NEW PARADIGM
Silvio Pitlik, Israel

Evening Conference Dinner

> WEDNESDAY, MAY 10, 2017

08:30 – 10:15 Session 11: VIRAL PATHOGENS II

Chairs: Silvio Pitlik, Israel and Veronika von Messling, Germany

- 08:30 *Keynote Speaker:*
CONSTRAINTS AND DRIVERS ACTING ON INFLUENZA A VIRUS REASSORTMENT
Anice Lowen, USA
- 09:00 *Keynote Speaker:*
EMERGENCE OF ZOONOTIC ARBOVIRUSES IN THE U.S.
Dana Vanlandingham, USA
- 09:30 *Free Communication:*
CAMEL TO CAMEL TRANSMISSION AND REINFECTION WITH MERS-COV
Danielle Adney, USA
- 09:45 *Free Communication:*
EXPERIMENTAL INFECTION OF DUCKS AND MOSQUITOES WITH JAPANESE
ENCEPHALITIS VIRUSES: A QUEST TO UNDERSTAND GENOTYPE DISPLACEMENT
Ajit Karna, USA
- 10:00 *Free Communication:*
SMALL MOLECULE INHIBITORS TARGETING 3C-LIKE PROTEASE OF MIDDLE EAST
RESPIRATORY SYNDROME CORONAVIRUS
Kyeong-Ok Chang, USA

10:15 - 10:45 Coffee, Poster Viewing & Visit the Exhibition

WEDNESDAY, MAY 10, 2017 (CONTINUED)

10:45 – 12:30 Session 12: MOLECULAR CHARACTERIZATION AND DETECTION OF PATHOGENS

Chairs: William Wilson, USA and Hana Weingartl, Canada

- 10:45 *Keynote Speaker:*
INTEGRATED ANALYTICAL SYSTEM FOR DETECTION AND CHARACTERIZATION
OF KNOWN AND UNKNOWN PATHOGENS
Willy Valdivia-Granda, USA
- 11:15 *Keynote Speaker:*
BOVINE TUBERCULOSIS - A TRULY WICKED PROBLEM IN NEED OF URGENT SOLUTIONS
Vivek Kapur, USA
- 11:45 *Free Communication:*
MOLECULAR INSIGHTS INTO THE ZOONOTIC POTENTIAL OF BAT INFLUENZA
A-LIKE VIRUSES
Martin Schwemmle, Germany
- 12:00 *Free Communication:*
POINT OF NEED MOLECULAR DIAGNOSTICS FOR RIFT VALLEY FEVER VIRUS
DETECTION
Jessie Trujillo, USA
- 12:15 *Free Communication:*
A UNIVERSAL VIRUS CAPTURE METHOD LEADING TO DRASTIC ENHANCED SENSITIVE
VIRAL DETECTION USING THE APOH-COATED SUPPORTS
Francisco Veas, France
- 12:30 *Closing Remarks*

> POSTER PRESENTATIONS

1. FMDV SOLUBLE P1 PROTEIN PRODUCTION BY EXPRESSO® SUMO EXPRESSIONING TECHNOLOGY AND PRODUCTION OF MONOCLONAL ANTIBODIES AGAINST FMDV SEROTYPES O AND A FOR DIAGNOSTIC PURPOSES
Dashzeveg Bold, Alfonso Clavijo, Juergen Richt, USA
2. CHANGES IN CELLULAR PRION PROTEIN SEQUENCE AND GLYCOSYLATION PERMIT PROPAGATION OF PROTEIN-ONLY CONFORMER IN VITRO
Cassandra Burke, Daniel Walsh, Geoffrey Noble, Alexander Steele, Umberto Agrimi, Michele Di Bari, Abigail Diack, Jean Manson, Joel Watts, Surachai Supattapon, USA
3. PATHOGENESIS OF ZIKA VIRUS ISOLATES IN INTERFERON RECEPTOR α/β KNOCK OUT MICE
Julie Callison, Jackson Emanuel, Kristin McNally, Nicolette Arndt, Cynthia Martellaro, Rebecca Rosenke, Sonja M. Best, Dana P. Scott, Heinz Feldmann, Andrea Marzi, USA
4. DEVELOPMENT OF A FIELD-DEPLOYABLE REVERSE TRANSCRIPTION-INSULATED ISOTHERMAL PCR (RT-IIPCR) ASSAY FOR RAPID AND ON-SITE DETECTION OF ZIKA VIRUS
Mariano Carossino, Yanqiu Li, Chuan Fu Tsai, Pei-Yu A. Lee, Dennis Williams, Ashley Skillman, R. Frank Cook, Grayson Brown, Hsiao-Fen G. Chang, Hwa-Tang T. Wang, Udeni B. R. Balasuriya, USA
5. MOSQUITO-BORNE DISEASE AND ONE HEALTH: MULTIDISCIPLINARY SURVEILLANCE NETWORKS AS A TOOL FOR "EARLY DETECTION"
Cristina Casalone, A. Pautasso, F. Verna, V. Bellavia, M.C. Radaelli, L. Chiavacci, A. Mosca, M. Ballardini, W. Mignone, R. Orus, M. L. Mandola, Italy
6. IMPROVING ANALYTICAL FRAMEWORKS FOR IMPACT ASSESSMENTS: NEW WORLD SCREW WORM
Gericke Cook, Kenneth Forsythe, Timothy Clouse, USA
7. INTRODUCTION OF JAPANESE ENCEPHALITIS VIRUS INTO THE UNITED STATES VIA ENTRY OF INFECTED VECTORS BY AIRCRAFT: A QUANTITATIVE RISK ASSESSMENT
Ana Rute da Silva Oliveira, José Piaggio, Lee W. Cohnstaedt, D. Scott McVey, Natalia Cernicchiaro, USA
8. BIODIVERSITY AFFECTS BOVINE TUBERCULOSIS (BTB) RISK: PROSPECTS FOR EMERGENCE OF INFECTIOUS DISEASE CONTROL
Sintayehu W. Dejene, Ignas M.A. Heitkönig, Herbert H.T. Prins, Zewdu K. Tessema, Willem F. de Boer, The Netherlands & Ethiopia
9. INFLUENCE OF GLOBAL WARMING AND CLIMATIC INSTABILITY ON INVASION PATTERNS OF THE RAT LUNG WORM (ANGIOSTRONGYLUS CANTONENSIS) IN OKLAHOMA
Chris Dunn, Emily York, Chris Dunn, Wayne Lord, James Creecy, USA

POSTER PRESENTATIONS

10. VACCINE DEVELOPMENT FOR SCHMALLENBERG VIRUS
Abaine Endalew, Bonto Faburay, Anne S. Davis, SunYoung Sunwoo, Vinay Shivanna, Wenjun Ma, Igor Morozov, Jessie Trujillo, Barbara Drolet, D. S. McVey, William C. Wilson, Juergen A. Richt, USA
11. DEVELOPING RNA INTERFERENCE AS AN ANTIVIRAL STRATEGY AGAINST AN EMERGING VIRAL ZOOONOSIS (RIFT VALLEY FEVER)
Bonto Faburay, Juergen A. Richt, USA
12. NOVEL PRIME BOOST APPROACH INCORPORATING VECTOR BASED AND MODIFIED LIVE VACCINES TO IMPROVE PROTECTION AGAINST AFRICAN SWINE FEVER VIRUS
Natasha N Gaudreault, Maria Murgia, Vlad Petrovan, Luca Popescu, Mark Mogler, Raymond Rowland, USA
13. CEEZAD BSL-3 TRAINING/ TRANSBOUNDARY ANIMAL DISEASES SUMMER PROGRAM
Jessica L. Green, John Webster, Stephanie Hober, Juergen A. Richt, USA
14. A NEW IMMUNOLOGICAL TECHNIQUE FOR THE DETECTION OF NEWLY EMERGING ZOOONOTIC DISEASES IN HUMANS AND ANIMALS
Mohammad M. Hossain, Raymond R. Rowland, USA
15. RAPID SEROLOGICAL DIAGNOSIS OF BOVINE VIRAL DIARRHEA VIRUS (BVDV) INFECTION IN CATTLE
Mohammad M. Hossain, Raymond R. Rowland, USA
16. THE APPLICATIONS OF HISTIDINE-TAGGED FUSION PROTEINS FOR THE DETECTION OF TRANSBOUNDARY INFECTIOUS DISEASES
Mohammad M. Hossain, Raymond R. Rowland, USA
17. PRESENCE OF *Toxoplasma gondii* IN WILD FELIDS IN CAPTIVITY FROM MEXICO
Matilde Jimenez-Coello, J. Antonio Gomez-Rios, Antonio Ortega-Pacheco, Eugenia Guzmán-Marín, Karla Y Acosta-Viana, Eduardo Gutierrez-Blanco, Mexico
18. CONGENITAL TRANSMISSION OF TRYPANOSOMA CRUZI (DTU I) IN CAVIA PORCELLUS EXPERIMENTALLY INFECTED BEFORE AND DURING GESTATION
Matilde Jimenez-Coello, Jatziri Torres-Vargas, Antonio Ortega-Pacheco, Eugenia Guzman-Marin, Karla Y. Acosta-Viana, Eduardo Gutierrez-Blanco, Mexico
19. VALIDATION OF EXPRESSION PROFILE AND SERUM LEVELS OF POTENTIAL BIOMARKERS FOR CHAGAS DISEASE
Matilde Jimenez-Coello, Karla Y Acosta -Viana, Eugenia Guzmán - Marín, Antonio Ortega-Pacheco, Karla Amaya, Hernan Villanueva - Alonso, Nisha Garg, Mexico

> POSTER PRESENTATIONS

20. HIGHLY DIVERGENT CYCLO-LIKE VIRUS IN A GREAT ROUNDLEAF BAT (*HIPPOSIDEROS ARMIGER*), VIETNAM
Gábor Kemenesi, Kornélia Kurucz, Brigitta Zana, Tu Vuong Tan, Tamás Görföl, Péter Estók, Fanni Földes, Katalin Sztancsik, Ferenc Jakab, Hungary
21. RELA INHIBITORS FOR TREATMENT OF CHRONIC BACTERIAL INFECTIONS
Jaroslav Krol, Donald Hall, Haifeng Ji, USA
22. AVIAN INFLUENZA VIRUS INACTIVATION BY ENVIRONMENTAL FACTORS AND DISINFECTANTS: PREMISES TREATMENT DURING THE 2014-2015 H5NX OUTBREAK IN THE UNITED STATES
Randall L. Levings, Emergency Management Response System Team, Mia Kim Torchetti, USA
23. PR8-BASED INFLUENZA VIRUS POSSESSING THE PH1N1 M SEGMENT BUT NOT AVIAN HOST-DERIVED M SEGMENTS TRANSMITS EFFICIENTLY IN A GUINEA PIG MODEL OF TRANSMISSION
Anice C. Lowen, Shamika Danzy, Ketaki Ganti, John Steel, USA
24. CHIMERIC BAT INFLUENZA VIRUS AS A VACCINE PLATFORM FOR DEVELOPING SAFE AND EFFICIENT SWINE INFLUENZA LIVE VACCINES
Wenjun Ma, Jinhwa Lee, Juergen Richt, Jingjiao Ma, USA
25. CHARACTERIZATION OF SWINE INFLUENZA VIRUSES ISOLATED FROM MIDWEST USA SWINE HERDS
Jingjiao Ma, Michael Duff, Qinfang Liu, Chester McDowell, Huigang Shen, Bhupinder Bawa, Juergen Richt, **Wenjun Ma**, USA
26. IDENTIFICATION AND EVALUATION OF INHIBITORS FOR RIFT VALLEY FEVER VIRUS
Yuekun Lang, Jamie Henningson, Dane Jaspersen, Yonghai Li, Michael Duff, Jingjiao Ma, Yuhao Li, Dingping Bai, Haixia Liu, Jianmei Yang, Tetsuro Ikegami, Juergen Richt, William Wilson, **Wenjun Ma**, USA
27. ZOONOTIC PARASITIC THREATS DUE TO EMERGING RESISTANCE AGAINST SELECTED ANTHELMINTICS IN ZOO HOUSED NON-HUMAN PRIMATES: A CONFOCAL STUDY
Aman Dev Moudgil, Lachhman Das Singla, India
28. EVALUATION OF ONE HEALTH PRACTICES TO TACKLE ZOOSES: THE EXAMPLE OF THE INTEGRATED WEST NILE VIRUS SURVEILLANCE IN NORTHERN ITALY, 2016
Giulia Paternoster, Laura Tomassone, Marco Tamba, Mario Chiari, Antonio Lavazza, Mario Piazzi, Anna Rosa Favretto, Giacomo Balduzzi, Barbara Vogler, USA, Italy

POSTER PRESENTATIONS

29. ILLEGAL SWINE PRODUCTS CARRIED BY AIR PASSENGERS AND THEIR POTENTIAL RISK OF AFRICAN SWINE FEVER AND CLASSICAL SWINE FEVER INTRODUCTION INTO THE UNITED STATES OF AMERICA
Giulia Paternoster, Beatriz Martínez-López, Kenneth Burton, Lina Mur, USA
30. CHARACTERIZATION OF MONOCLONAL ANTIBODIES AGAINST AFRICAN SWINE FEVER VIRUS (ASFV) P30 AND APPLICATIONS IN DIAGNOSTIC ASSAYS AND RESEARCH
Vlad Petrovan, Maria V. Murgia, Ying Fang, Raymond R. Rowland, USA
31. ORAL FLUIDS DIAGNOSTIC METHODS FOR CLASSICAL SWINE FEVER VIRUS
Luca Nicolae Popescu, Natasha Gaudreault, Raymond R. Rowland, USA
32. GENE EXPRESSION ANALYSIS OF WHOLE BLOOD FROM PIGS INFECTED WITH LOW AND HIGH PATHOGENIC AFRICAN SWINE FEVER VIRUSES
Raymond R. Rowland, Crystal Jaing, David Williams, USA
33. DEVELOPMENT OF PEN-SIDE SCREENING AND SURVEILLANCE TOOLS
Valorie Theresa Ryan, Joseph Carrano, Richard Winegar, Logan Haller, USA
34. RIFT VALLEY FEVER VIRUS MP-12 INFECTION OF PRIMARY SHEEP MACROPHAGES SHOWS DECREASING PLAQUE SIZE OVER TIME
Erin E. Schirtzinger, Jessie D. Trujillo, Ju Lin Weng, A. Sally Davis, Jurgén A. Richt, William C. Wilson, USA
35. EVALUATION OF THE IMMUNOGENICITY IN MOUSE AFTER IMMUNIZATION WITH RECOMBINANT PROTEINS OF EPIZOOTIC HEMORRHAGIC DISEASE VIRUS
Sun Young Sunwoo, Igor Morozov, Erin Schirtzinger, D.Scott McVey, William C. Wilson, Juergen A. Richt, USA
36. PREDICTING THE ANTIGENIC EVOLUTION OF INFLUENZA A/H3N2 VIRUSES IN MULTIPLE HOSTS
Nidia Sequeira Trovao, Martha I. Nelson, Trevor Bedford, Philippe Lemey, USA
37. DETECTION OF AFRICAN SWINE FEVER VIRUS DNA IN FORMALIN-FIXED, PARAFFIN-EMBEDDED TISSUES
Kinga Urbaniak, David A. Meekins, Sun Young Sunwoo, Juergen A. Richt, A. Sally Davis, Jessie D. Trujillo, USA
38. A SAMPLE PREPARATION METHOD FOR ULTRASENSITIVE DETECTION APPROACH FOR PATHOGENS INVOLVED IN LYME DISEASE
Francisco Veas, Estelle Lucarz, Yves Mon, Sylvia Tigrett, Ilias Stefas, France
39. COLLABORATIVE RESPONSE TOWARDS COUNTERING ZOO NOTIC THREATS OF CRIMEAN-CONGO HEMORRHAGIC FEVER (CCHF) IN PAKISTAN
Farah Haider, **Usman Waheed**, Pakistan

NOTES

This image shows a single sheet of white paper with horizontal blue or gray ruling lines, typical of notebook paper. A large, white, stylized arrow points from left to right across the center of the page. The entire sheet is placed on a light gray background.

PROGRAM AT A GLANCE

SUNDAY, MAY 7, 2017

14:30	Registration
17:15	WELCOME ADDRESSES
17:30	Session 1: OPENING LECTURES
19:00	<i>Get-Together Reception (optional)</i>

MONDAY, MAY 8, 2017

07:30	Registration
08:30	Session 2: PATHOGEN DISCOVERY
10:30	<i>Coffee, Poster Viewing and Visit the Exhibition</i>
11:00	Session 3: EPIDEMIOLOGY
12:45	<i>Lunch Break</i>
14:00	Session 4: VACCINOLOGY
16:00	<i>Coffee, Poster Viewing and Visit the Exhibition</i>
16:30	Session 5: BACTERIAL PATHOGENS AND ANTIMICROBIAL RESISTANCE
18:15	Session 6: PANEL/ROUNDTABLE DISCUSSION
19:30	Poster Session

TUESDAY, MAY 9, 2017

08:30	Session 7: VIRAL PATHOGENS
10:00	<i>Coffee, Poster Viewing and Visit the Exhibition</i>
10:30	Session 8: HEMORRHAGIC FEVER VIRUSES
12:15	<i>Lunch Break</i>
13:30	Session 9: MICROBIAL IMMUNOLOGY
15:30	<i>Coffee, Poster Viewing and Visit the Exhibition</i>
16:00	Session 10: COMPARATIVE MEDICINE
Evening	<i>Conference Dinner (optional)</i>

WEDNESDAY, MAY 10, 2017

08:30-10:15	Session 11: VIRAL PATHOGENS II
10:15-10:45	<i>Coffee, Poster Viewing and Visit the Exhibition</i>
10:45-12:30	Session 12: MOLECULAR CHARACTERIZATION AND DETECTION OF PATHOGENS
12:30	Closing Remarks