International Meeting on Emerging Diseases and Surveillance

Vienna, Austria • November 4–7, 2016

International Society for Infectious Diseases

ProMED-mail
Program for Monitoring Emerging Diseases

Organized by

International Society for Infectious Diseases (ISID)

ProMED-mail, the Program for Monitoring Emerging Diseases

FINAL PROGRAM

PROUD SPONSOR

of IMED 2016

With a shared vision to develop partners and find solutions to infectious diseases *across the globe.*

METABIOTA

www.metabiota.com

2016 IMED

International Meeting on Emerging Diseases and Surveillance

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International Society for Infectious Diseases (ISID)

ProMED-mail, the Program for Monitoring Emerging Diseases

FINAL PROGRAM

It is our pleasure to welcome you to the Sixth International Meeting on Emerging Diseases and Surveillance, IMED 2016 in Vienna, Austria from 4–7 November 2016. For those whose work deals with threats from infectious agents, IMED 2016 is once again bringing leading scientists, clinicians and policy makers to Vienna to present new knowledge and breakthroughs and discuss how to discover, detect, understand, prevent, and respond to outbreaks of emerging pathogens.

Since the last IMED in 2014, newly emerged diseases and outbreaks of familiar ones have continued to challenge us. The West African Ebola outbreak presented an unparalleled crisis of global proportions and there are many lessons yet to be learned from it. MERS coronavirus continues to challenge the Middle East, spreading dangerously in the healthcare setting, and showed its global threat with a major outbreak in the Republic of Korea. Eruptions of highly pathogenic avian influenza in poultry, wild birds and humans continue to occur. Zika virus appeared for the first time in the Americas, spreading widely in this region with plentiful competent vectors. A frightening role in fetal malformation has emerged. Diseases at the human-wildlife interface ranging from rabies to plague to Nipah continue to draw our attention. Growing resistance by pathogens to all types of therapeutic agents raises fundamental obstacles to our ability to respond to outbreaks and pandemics. We have witnessed the use of chemical weapons in the Syrian conflict and the threat of intentional use of biological agents for nefarious purposes remains as real as ever. The European migrant crisis has raised questions regarding the re-emergence of infectious diseases and the monitoring and screening of migrants arriving in Europe and elsewhere.

Since its inception, IMED has been a summit that unifies our approach to pathogens in the broadest ecological context. Drawing together human and veterinary health specialists, IMED serves as a true One Health forum where those working in diverse specialties and diverse regions can meet, discuss, present and challenge one another with findings and new ideas. While pathogens emerge and mutate, our methodology for detection, surveillance, prevention, control, and treatment also continue to evolve. New approaches to vaccination and isolation, the uses of novel data sources and genomics, novel laboratory methods, rapid point-of-care diagnostics, risk communication, political and societal responses to outbreaks have all seen innovation and change that will be explored at IMED 2016.

ProMED and the International Society for Infectious Diseases (ISID), along with all of our co-sponsors and participating organizations, look forward to welcoming you to Vienna. ,

Larry MADOFF
Co-*Chair*, Scientific Program Committee
Editor, ProMED-mail, ISID

Britta LASSMANN
Co-*Chair*, Scientific Program Committee
Program Director, ISID

IMED Scientific Committee

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Paul Tambyah, Singapore

EpiCore

Friday, November 4, 2016 ~ 11.00–13.00 ~ Klimt Ballroom 1/Upper Level

Working with ProMED-mail, EpiCore is a new innovative surveillance program that harnesses the power of volunteers located throughout the world to provide information to help verify outbreaks faster than traditional surveillance methods. Qualified EpiCore members are trained in innovative surveillance techniques and the specific use of the EpiCore platform. They may then respond to requests for information distributed by ProMED-mail moderators via email to members in geographic proximity to an outbreaks or suspected outbreak. Members provide information to EpiCore through a secure web-based system that allows them to maintain their anonymity as desired. The information collected through EpiCore may then be shared through ProMED, a free, nonpolitical system with open and public worldwide distribution. By using innovative surveillance techniques and linking local and international human, animal and environmental health experts, EpiCore enables faster outbreak detection and reporting. www.epicore.org

The **International Society for Infectious Diseases (ISID)**—with more than 80,000 members representing every country in the world—is a non-profit organization committed to supporting infectious disease practitioners in their work to prevent the spread of infectious diseases and investigate and manage infectious disease outbreaks when they occur. ISID recognizes that infectious diseases cross all national and regional boundaries and that effective long-term solutions require international scientific exchange and cooperation. www.isid.org

ISID's **Program for Monitoring Emerging Diseases (ProMED)** is one of the largest publicly available emerging disease and outbreak alert systems in the world. ProMED publishes real-time, around the clock reports of infectious disease outbreaks and toxic exposure incidents with commentaries from a worldwide staff of expert moderators. ProMED follows the One Health concept covering emerging diseases and toxin exposures in plant, animal, wildlife, and humans. One of the early innovators in using non-traditional/informal information sources to identify unusual health events around the world, ProMED emphasizes transparency, is open to all sources, is free of political constraints, and is available to anyone free of charge. In addition to the generally focused English version, ProMED is also available in several languages and as regional networks. www.promedmail.org

ProMed Who's Who

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Marjorie P. Pollack, USA, *Deputy Editor*
Stuart Handysides, UK, *Associate Editor*
Donald Kaye, USA, *Associate Editor*
Matthew Levison, USA, *Associate Editor*
Jack Woodall, Brazil, *Associate Editor*

ProMed Moderators, Correspondents and other team members

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Batyrbek Aslanov, Russia
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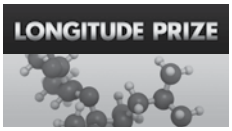
Metabiota develops systems to mitigate microbial threats. Metabiota is a for-profit company specializing in disease and pathogen detection, evaluation and response through the integration of field and lab research with health data analytics. Metabiota has a demonstrated track record in international collaboration, scientific and public health surveillance capacity-building, and research with high public health impact. Metabiota is focused on scientific leadership, community health development and education, and exploratory research. Metabiota maintains offices in San Francisco, CA, Washington, DC, and Guangzhou, China.

Contributors

Austrian Airlines
City of Vienna
International Society for Infectious Diseases (ISID)
Vienna Convention Bureau
Vienna Hilton Am Stadtpark

We thank the IMED Organizing Committee members' support to facilitate participation of select colleagues from low income countries in the meeting.



Lunch and £10m Longitude Prize

Sunday, November 6, 2016 ~ 13.15–14.15 ~ Klimt Ballroom 2&3/Upper Level

The Longitude Prize is the UK's biggest science prize. It's a 5-year global competition with a prize fund of £10m, and a 300 year legacy. Launched in 2014, it is focused on tackling the growing resistance to antibiotics, which is the topic selected through public vote. Currently, 205 teams from 37 countries are working on ideas to win the Prize, by developing a diagnostic test that can significantly reduce the misappropriate use of antibiotics. It needs to be transformative, affordable, accurate, easy to use in any health setting, and provide a result in 30 minutes. To find out more about the Prize, how you could take part, and about the support we offer, please join us at IMED 2016. Information: www.longitudeprize.org

Participating Organizations
Austrian Agency for Health and Food Safety (AGES)
Austrian Federal Ministry of Health
Austrian Society for Infectious Diseases and Tropical Medicine (ÖGIT)
Austrian Society of Hygiene, Microbiology and Preventive Medicine (ÖGHMP)
Austrian Society of Tropical Medicine, Parasitology and Migration Medicine (ÖGTPM)
Centre of Public Health, Medical University of Vienna
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Skoll Global Threats Fund
World Organization of Animal Health (OIE)
World Veterinary Association
University of Veterinary Medicine Vienna – (Vetmeduni Vienna)

Exhibitors
Altona
Euroimmun
Fast Track
Mitre
International Society for Infectious Diseases (ISID)

We invite you to visit the Exhibits in the Pre-Function Area on the Ground Level.

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Opening Hours of the Registration and Information Desk

Friday, November 4, 2016	11:00 – 19:00hrs
Saturday, November 5, 2016	08:00 – 18:00hrs
Sunday, November 6, 2016	08:00 – 18:00hrs
Monday, November 7, 2016	08:00 – 12:00hrs

Congress Venue

Hilton Vienna • Am Stadtpark • 1030 Vienna • Tel: +43 1 717 000 • http://www.hilton.com

Registration Fees • Participants: USD 575.00 • Students: USD 325.00

Social Program

The Welcome Reception will be held on Friday, November 4 from 17:30 to 19:00hrs at the Hilton Hotel Vienna on the Gallery (Upper Level).

The Mayor's Reception will take place on Sunday, November 6 at 19:30hrs at the Vienna City Hall (entrance: Lichtenfelsgasse, 1010 Vienna). An invitation card is needed to gain access to this reception. The price is USD 15.00 per person. Onsite registration is subject to availability.

For both functions business attire is appropriate..

Badges • Please wear your name badge at all times during the conference in order to gain access to the scientific program and all conference functions.

Conference Mobile App • The Conference Mobile App includes the program, floor plans, sponsors, evaluations and exhibition information. It can be downloaded from the web: **http://eventmobi.com/imed2016/**. Once downloaded from the web, the App will also work offline. In order to update the App with any program changes you will have to connect to the Internet. For easier access in the future make sure to simply add the bookmark to your phone's home screen.

Internet Access • The Hilton provides free internet access in the main hotel lobby. WiFi access in the sleeping rooms and conference area is available for a special conference fee if you present your IMED name badge. Tickets can be purchased from the reception desk on the ground level (EUR 10 for 24 hours).

CME

The IMED 2016 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EAC-CME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

The IMED 2016 is designated for a maximum of, or up to 18 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits.™ Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

RACE (Veterinary CE)

The American Association of Veterinary State Boards RACE committee has reviewed and approved the program referenced above as meeting the Standards adopted by the AAVSB to offer a total of 21.00 CE Credits (21.00 max) being available to any one veterinarian. This approval is valid in jurisdictions which recognize AAVSB RACE; however, participants are responsible for ascertaining each board's CE requirements.

All CME forms can be accessed online: https://isid.typeform.com/to/sA6nqE, the Congress App and will be emailed to registered attendees at the end of the Conference. All sessions meeting CME criteria are designated CME.

IMED on Social Media

Please tweet about IMED:
@ISID_meetings
using #IMED2016

Like our facebook page:
https://www.facebook.com/ISID.IMED

Poster Presentations

Poster presentations will be held on Saturday, November 5 and Sunday, November 6 from 11.45 to 13.15hrs. During this period all presenters must be available for discussion at their posters.

Set-up for Poster Presentations I:
Saturday, November 5 from 08:00 to 10:30hrs
Removal: Saturday, November 5 from 16:30 to 18:00hrs

Set-up for Poster Presentations II:
Sunday, November 6 from 08:00 to 10:30hrs
Removal: Sunday, November 6 from 16:30 to 18:00hrs

Poster Areas (Upper Level)

Saturday, November 5, 2016 / Poster Presentations I 11:45–13:15

Room Bruckner/Mahler/Brahms / Upper Level:

Poster Number	*Topic*
19.001 – 19.058	Antimicrobial Resistance
19.059	Vectorborne Diseases
19.060 – 19.062	Bioterrorism and Biological Warfare
19.063 – 19.068	Climate Change and Ecological Factors in Disease Emergence
19.069 – 19.093	Diseases at the Interface of Humans, Wildlife and Other Animals
19.094 – 19.101	Diseases of Animals
19.102 – 19.105	Ethical Issues in Emerging Diseases and Disease Surveillance
19.106 – 19.119	Foodborne and Waterborne Diseases
19.120 – 19.157	Infections of Public Health Significance

Klimt Ballroom 1 / Upper Level:

Poster Number	*Topic*
19.158 – 19.203	Infections of Public Health Significance (*continued*)
19.204 & 19.215	Outbreak Response and Control
19.205 – 19.214	Infections Related to Travel and Migration

Sunday, November 6, 2016 / Poster Presentations II 11:45–13:15

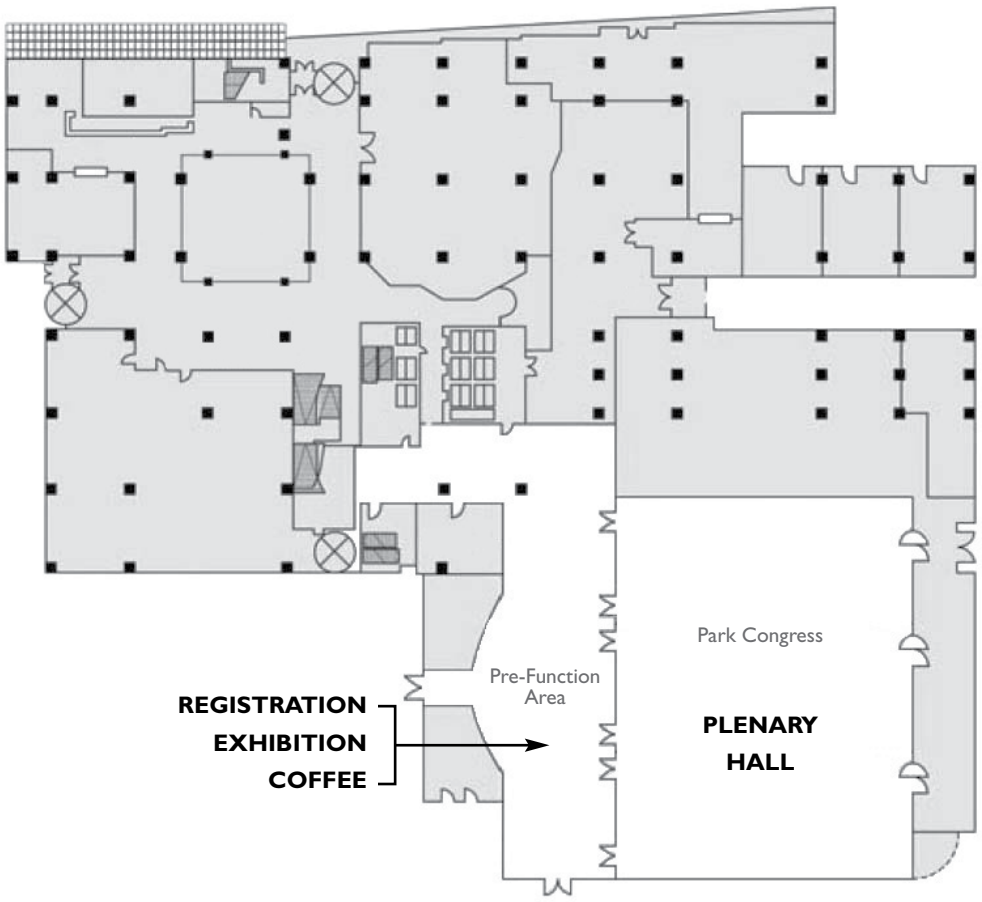
Room Bruckner/Mahler/Brahms / Upper Level:

Poster Number	*Topic*
20.001	Outbreak Modeling
20.002 – 20.024	Influenza and Other Respiratory Infections
20.025 – 20.037	Innovations in Diagnostic Tests for Emerging Diseases
20.038 – 20.041	Innovations in Surveillance for Non-communicable Diseases
20.042 – 20.071	New Approaches to Outbreak Surveillance and Monitoring
20.072 – 20.074	New Pathogen Discovery
20.075 – 20.102	New, Emerging and Neglected Zoonotic Diseases
20.103 – 20.107	Outbreak Modeling
20.108 – 20.140	Outbreak Response and Control
20.141 – 20.151	Public Communication of Outbreaks and Emerging Diseases
20.152 – 20.155	Sociopolitical Factors in Disease Emergence
20.156 – 20.161	Vaccines and Emergence of Vaccine Preventable Diseases

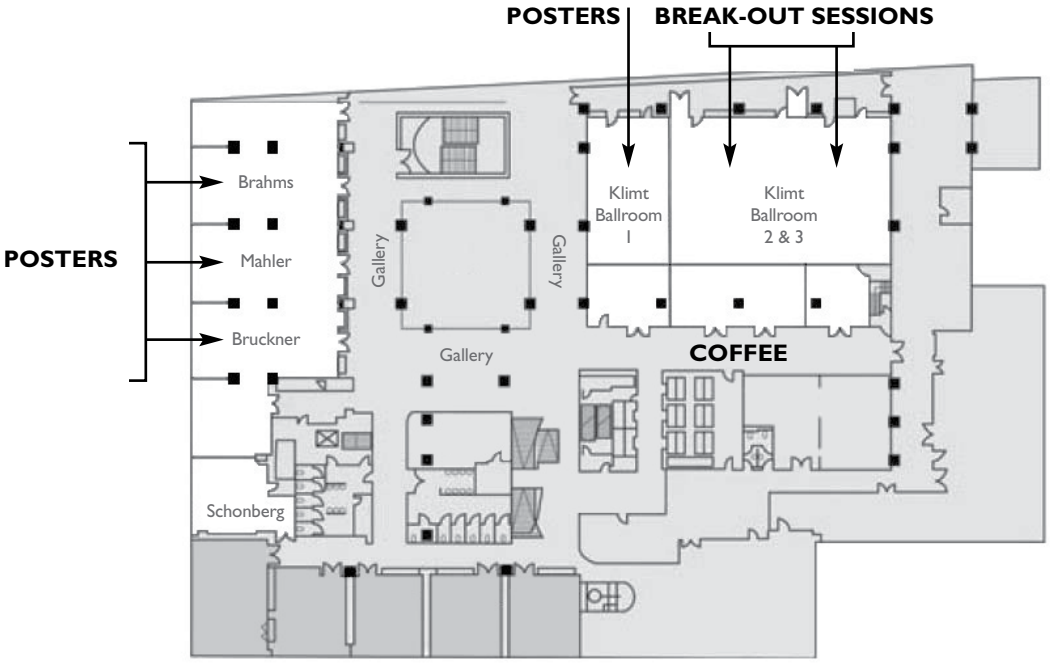
Klimt Ballroom 1 / Upper Level:

Poster Number	*Topic*
20.162 – 20.176	Vaccines and Emergence of Vaccine Preventable Diseases (*continued*)
20.177 – 20.221	Vectorborne Diseases

GROUND LEVEL



FIRST LEVEL



Time	Friday, November 4, 2016	Room
09:00–17:30	**Hackathon**	Klimt Ballroom 2&3/Upper Level
11:00–13:00	**Epicore Workshop**	Klimt Ballroom 1/Upper Level
11:00–19:00	Registration and Information Desk	Foyer/Park Congress/Ground Level
14:00–14:20	**Welcome & Opening**	Park Congress/Ground Level
14:20–17:15	**Session 1:** *Plenary Session:* One World - One Health: Trans-Boundary Emerging Diseases in Humans, Animals and Wildlife	Park Congress/Ground Level
17:30–19:00	**Welcome:** Cocktail Reception	Gallery/Upper Level
Time	**Saturday, November 5, 2016**	**Room**
	2 Break-out Sessions:	
08:30–10:30	**Session 2:** Flaviviruses - An Expanding Global Threat	Park Congress/Ground Level
08:30–10:30	**Session 3:** *Oral Presentations:* What's New? Novel and Re-Emerging Pathogens & Hackathon Winning Ideas	Klimt Ballroom 2&3/Upper Level
10:30–11:00	Coffee Break	Ground Level **and** Upper Level
11:00–11:45	**Session 4:** *Plenary Lecture:* Epidemics Without Borders: From Challenges to Opportunities for Better Emergency Response	Park Congress/Ground Level
11:45–13:15	**Poster Presentations I** (Session 19)	Bruckner/Mahler/Brahms/Upper Level **and** Klimt Ballroom 1/Upper Level
14:30–16:00	*2 Break-out Sessions:*	
	Session 5: Tracking Emerging Diseases	Park Congress/Ground Level
	Session 6: The Farthest Reach: The Challenge of Nomadic and Remote Populations to Emergency Response	Klimt Ballroom 2&3/Upper Level
16:00–16:30	Coffee Break	Ground Level **and** Upper Level
16:30–18:00	*2 Break-out Sessions:*	
	Session 7: Pandemic Preparedness and What we Learned from Ebola	Park Congress/Ground Level
	Session 8: *Oral Presentations:* Zika & Other Vectorborne Diseases	Klimt Ballroom 2&3/Upper Level
Time	**Sunday, November 6, 2016**	**Room**
08:30–10:30	*2 Break-out Sessions:*	
	Session 9: A Refugee's Journey from Insecurity to Stability	Park Congress/Ground Level
	Session 10: *Oral Presentations:* One Health - Diseases Across Species Boundaries	Klimt Ballroom 2&3/Upper Level
10:30–11:00	Coffee Break	Ground Level **and** Upper Level
11:00–11:45	**Session 11:** *Plenary Lecture:* Trends in Antimicrobial Resistance in Europe	Park Congress/Ground Level
11:45–13:15	**Poster Presentations II** (Session 20)	Bruckner/Mahler/Brahms/Upper Level **and** Klimt Ballroom 1/Upper Level
13:15–14:15	**Info Session:** £10m Longitude Prize and Lunch	Klimt Ballroom 2&3/Upper Level
14:30–16:00	*2 Break-out Sessions:*	
	Session 12: Hot Topics in Emerging Infections	Park Congress/Ground Level
	Session 13: Date Sharing and Ethics of Big Data	Klimt Ballroom 2&3/Upper Level
16:00–16:30	Coffee Break	Ground Level **and** Upper Level
16:30–18:00	*2 Break-out Sessions:*	
	Session 14: Managing the Next Outbreak	Park Congress/Ground Level
	Session 15: *Oral Presentations:* Lessons from Ebola—Preparing for the Next Pandemic	Klimt Ballroom 2&3/Upper Level
19:30–21:00	Mayor's Cocktail Reception – ***Doors open at 19:00***	City Hall
Time	**Monday, November 7, 2016**	**Room**
08:30–10:30	*2 Break-out Sessions:*	
	Session 16: Antimicrobial Resistance in the One Health Context	Park Congress/Ground Level
	Session 17: Oral Presentations: Innovative Approaches to Emerging Disease Surveillance	Klimt Ballroom 2&3/Upper Level
10:30–11:00	Coffee Break	Ground Level **and** Upper Level
11:00–11:45	**Session 18:** *Plenary Lecture:* The Global Virome Project	Park Congress/Ground Level

ProMED mail

Program for Monitoring Emerging Diseases

What is ProMED?

- ❍ A global expert network of infectious disease and public health specialists.
- ❍ The organization that first reported the outbreak of SARS in 2003 and another new coronavirus in 2012.
- ❍ A FREE emerging diseases alert system that reaches 65,000 subscribers in 190 countries worldwide in multiple languages.
- ❍ The world's first infectious disease social network, with its own website, Twitter feed, and Facebook pages.
- ✔ **ALL OF THE ABOVE**

For a FREE subscription to ProMED-mail email alerts, go to www.promedmail.org and click on subscribe.

International Society for Infectious Diseases

Sponsored by the International Society for Infectious Diseases

NOVEMBER 3 - 5, 2016 - VIENNA, AUSTRIA

An event in conjunction with the International Meeting on Emerging Diseases and Surveillance - IMED 2016

Pandemics and emerging diseases cause catastrophic morbidity, mortality, and economic hardship. They can occur anywhere at any time. To accelerate the development of innovative approaches to detect, predict, and prevent the next outbreak, the Hackathon at IMED 2016 has brought together multidisciplinary teams to develop practice-oriented solutions at the intersections of climate change, migration, technology, medicine, social economy, and the public and private sectors.

Select projects will be presented at a special IMED session on November 5th. Look for a summary of all the developed projects in an upcoming edition of the International Journal of Infectious Diseases and follow their progress on our Facebook page. Thank you to all of the participants, sponsors, and organizers for a successful event!

EVENT ORGANIZERS & PARTNERS

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ProMED mail

Program for Monitoring Emerging Diseases

MIT HACKING MEDICINE

Welcome & Opening

Room: Park Congress **14:00–14:20**
Ground Level **Friday, November 4, 2016**

Welcome by the International Society for Infectious Diseases (ISID)
Jon Cohen
Brighton (United Kingdom)

Welcome to Vienna
Norbert Nowotny
Vienna (Austria) & Dubai (United Arab Emirates)

Official Opening of the Conference
Sabine Oberhauser
Minister of Health
Vienna (Austria)

Welcome to IMED 2016
Larry Madoff
Boston, MA (USA)

Session 01 CME

Plenary Session

One World - One Health: Trans-Boundary Emerging Diseases in Humans, Animals and Wildlife

Co-Chairs: Jon Cohen, United Kingdom
Larry Madoff, USA

Room: Park Congress **14:20–17:15**
Ground Level **Friday, November 4, 2016**

01.001 AIDS, Avian flu, SARS, MERS, Ebola, Zika… what next?
A. Osterhaus
Hanover (Germany)

01.002 Evidence for a risk-based strategy to detect viral spillover and spread
C. Kreuder Johnson
Davis, CA (USA)

01.003 Satisficing control options for influenza
G. M. Leung
Hong Kong (China)

01.004 Zoonotic diseases at the human-domestic animal -wildlife interface in Southern and Eastern Africa
R. R. Kazwala
Morogoro (Tanzania)

01.005 Global early warning signs for health threats at the human animal ecosystem interface
J. Pinto
Rome (Italy)

Welcome Cocktail Reception

Gallery **17:30–19:00**
Upper Level **Friday, November 4, 2016**

Session 02 CME

Break-out Session

Flaviviruses - An Expanding Global Threat

Co-Chairs: Oyewale Tomori, Nigeria
Laura Kramer, USA

Room: Park Congress 08:30–10:30
Ground Level Saturday, November 5, 2016

02.001 Teratogenic viral infections of the fetal central nervous system in animals: Timing and pathogen genetics are critical
N. J. MacLachlan
Davis, CA (USA)

02.002 Congenital Zika syndrome
V. Van der Linden
Recife (Brazil)

02.003 Mathematical models to elucidate the transmission dynamics and control of vector-borne disease
G. Chowell
Atlanta, GA (USA)

02.004 Flaviviruses—An expanding global threat
O. Tomori
Lagos (Nigeria)

Session 03 CME

Break-out Session/Oral Presentations

What's New? Novel and Re-Emerging Pathogens & Hackathon Winning Ideas

Co-Chairs: Tim Brewer, USA
Antoine Flahault, Switzerland

Room: Klimt Ballroom 2&3 08:30–10:30
Upper Level Saturday, November 5, 2016

03.001 Health hackathons
C. Lee
Cambridge, MA (USA)

Presentation of Hackathon winning ideas

Oral Presentations:

03.002 Identifying the next Zika: An analysis of zoonotic potential in Flaviviridae
K. Olival, K. Wiens, C. Rosenthal, A. Willoughby, C. Zambrana-Torrelio, N. Ross, P. Daszak
New York, NY (USA)

03.003 Exploiting viral pseudotypes for emerging virus research
K. Grehan[1], E. Bentley[2], S. Mather[1], R. Kinsley[1], G. Carnell[1], S. D. Scott[1], **E. Wright**[2], N. Temperton[1]
[1]Chatham (United Kingdom), [2]London (United Kingdom)

03.004 Outbreak of *Candida auris* in a tertiary care hospital in Karachi, Pakistan
J. Q. Farooqi[1], **A. Soomro**[1], S. Sajjad[1], M. A. Baig[2], K. Jabeen[1], K. Etienne[3], N. Nasir[1], S. F. Mahmood[1], A. Zafar[1], R. J. Asghar[2]
[1]Karachi (Pakistan), [2]Islamabad (Pakistan), [3]Atlanta, GA (USA)

03.005 Emergence of non-*Candida albicans* in ICU patients–A one year study of changing trends of candidemia in a tertiary care centre in North India
P. Sharma, M. Sharma
Noida (India)

03.006 Novel astrovirus and calicivirus identified in migratory birds in Brazil
W. M. Souza[1], M. F. Romeiro[1], M. J. Fumagalli[1], J. Araujo[2], L. La Serra[1], L. C. Vieira[1], E. L. Durigon[2], P. R. Murcia[3], L. T. M. Figueiredo[1]
[1]Ribeirão Preto (Brazil), [2]São Paulo (Brazil), [3]Glasgow (United Kingdom)

03.007 Crimean-Congo hemorrhagic fever, 2013 and 2014, Sudan
C. Kohl[1], M. Eldegail[2], I. Mahmoud[2], L. Schrick[1], A. Radonic[1], P. Emmerich[3], T. Rieger[3], S. Gunther[3], A. Nitsche[1], A. A. Osman[2]
[1]Berlin (Germany), [2]Karthoum (Sudan), [3]Hamburg (Germany)

03.008 An epidemiological investigation of a multisource outbreak of Crimean-Congo hemorrhagic fever in Karachi, from January–15th September 2016
M. A. Syed, H. Jhatyal
Karachi (Pakistan)

Coffee Break

Ground Level 10:30–11:00
& Upper Level Saturday, November 5, 2016

Session 04 CME

Plenary Lecture

Plenary Session: Epidemics without Borders: From Challenges to Opportunities for Better Emergency Response

Chair: Marc Mendelson, South Africa

Room: Park Congress 11:00–11:45
Ground Level Saturday, November 5, 2016

04.001 Epidemics without borders: From challenges to opportunities for better emergency response
M. Tatay
Geneva (Switzerland)

Poster Presentations I (Session 19)

Saturday, November 5, 2016 11:45–13:15
Bruckner/Mahler/Brahms - Upper Level
and **Klimt Ballroom 1 - Upper Level**

Posters 19.001–19.215 (see pages 21–32)

Session 05 CME

Break-out Session

Tracking Emerging Diseases

Co-Chairs: Paula Caceres, France
Marjorie Pollack, USA

Room: Park Congress 14:30–16:00
Ground Level Saturday, November 5, 2016

05.001 Innovations in participatory disease surveillance
M. Smolinski
San Francisco, CA (USA)

05.002 UpToDate: Using clinicians' searches to track outbreaks
A. Thorner
Waltham, MA (USA)

05.003 Tracking activity to improve the sensitivity of the OIE's monitoring and early warning systems for human and animal diseases
P. Caceres
Paris (France)

Session 06 CME

Break-out Session

The Farthest Reach: The Challenge of Nomadic and Remote Populations to Emergency Response, Emerging Disease Surveillance, and Eradication

Co-Chairs: Benson Estambale, Kenya
Rana Hajjeh, Egypt

Room: Klimt Ballroom 2&3 14:30–16:00
Upper Level Saturday, November 5, 2016

06.001 The challenge of nomadic and remote populations to emergency response, emerging disease surveillance, and eradication
J. Montgomery
Atlanta, GA (USA)

06.002 The impact of climate change and population mobility on neglected tropical disease elimination
J. J. Amon
New York, NY (USA)

06.003 Interdisciplinary approaches to evaluate vaccination coverage among nomadic pastoralists in northeastern Kenya for polio eradication
V. Gammino
Atlanta, GA (USA)

Coffee Break

Ground Level 16:00–16:30
& Upper Level Saturday, November 5, 2016

Session 07 CME

Break-out Session

Pandemic Preparedness and What we Learned from Ebola

Co-Chairs: Daniel Lucey, USA
Boubacar Maiga, Mali

Room: Park Congress 16:30–18:00
Ground Level Saturday, November 5, 2016

07.001 Vaccine trials during outbreaks: The Sierra Leone trial to introduce a vaccine against Ebola (STRIVE) experience
B. Mahon
Atlanta, GA (USA)

07.002 The Ebola commissions and International Health Regulations
D. Lucey
Washington, DC (USA)

07.003 Ebola survivors: Insights on complications of EBV disease
M. Fallah
Monrovia (Liberia)

Session 08 CME

Break-out Session/Oral Presentations

Zika & Other Vectorborne Diseases

Co-Chairs: Jonathan H. Epstein, USA
Jaime Torres, Venezuela

Room: Klimt Ballroom 2&3 16:30–18:00
Upper Level Saturday, November 5, 2016

08.001 Guillain-Barré syndrome during an outbreak of Zika virus in Bangladesh: A case-control study
C. Geurts van Kessel[1], Z. Islam[2], B. Jacobs[1], S. Kamga[1], C. Reusken[1], R. Mogling[1], B. Islam[2], D. Mohammed[2], M. Koopmans[1], H. Endtz[1]
[1]Rotterdam (Netherlands), [2]Dhaka (Bangladesh)

08.002 Infectome, diseasome and comorbidities of Zika infection
M. Moni[1], **P. Lio**[2]
[1]Sydney (Australia),
[2]Cambridge (United Kingdom)

08.003 Arbovirus epidemiology in pregnant women in Pernambuco State, Brazil
M. Eder[1], L. C. Bezerra[2], F. S. Outtes[2], G. S. Dimech[2], R. A. Ximenes[2], R. Dhalia[2], D. M. Cordeiro[2], E. T. Marques[3], C. M. T. Martelli[2]
[1]London (United Kingdom), [2]Recife (Brazil), [3]Pittsburgh, PA (USA)

08.004 Evaluation of the Euroimmun Zika virus IgG and IgM ELISA kits
L. Hueston
Westmead, NSW (Australia)

08.005 High levels of exposure of Zika and dengue infections detected using plaque reduction neutralization assay in Brazil
C. M. T. Martelli[1], P. Castanha[1], F. Cortes[1], L. Rodrigues[2], E. T. Marques[3]
[1]Recife (Brazil), [2]London (United Kingdom), [3]Pittsburgh, PA (USA)

08.006 Regional surveillance for arbovirus in Lazio Region, Italy during the ZIKV epidemic in Latin America
F. Vairo, S. Valle, A. Mammone, C. Castilletti, E. Nicastri, V. Puro, M. Capobianchi, G. Ippolito, P. Scognamiglio
Rome (Italy)

08.007 Spatio-temporal evolution of resistance to deltamethrin and kdr mutations in *Aedes aegypti* populations in French Guiana: A worrying situation for vector control
A. Guidez, J. Restrepo-Zabaleta, L. Mathieu, P. Gaborit, A. Sue-chee, L. Wang, R. Carinci, R. Girod, **I. Dusfour**
Cayenne (France)

08.008 Re-emergence of yellow fever in Ethiopia after 50 years–2013 epidemiological and entomological investigations
A. L. Gebrewahid
Addis Ababa (Ethiopia)

08.009 Development of models for Zika virus infection in mice and Rhesus macaques using a contemporary virus strain
D. Boltz, P. Curry, R. Baker
Chicago, IL (USA)

08.010 Development of a Zika vaccine using a novel MVA-VLP platform
F. Guirakhoo[1], A. Domi[2], N. McCurley[2], H. Robinson[2]
[1]Melrose, MA (USA), [2]Atlanta, GA (USA)

Session 09 CME

Break-out Session

A Refugee's Journey from Insecurity to Stability

Co-Chairs: Giuseppe Cornaglia, Italy
Vladimir Krcmery, Slovakia

Room: Park Congress 08:30–10:30
Ground Level Sunday, November 6, 2016

09.001 Cross border infection surveillance in mobile European populations—GeoSentinel and more
P. Schlagenhauf
Zurich (Switzerland)

09.002 German experience with screening and healthcare in refugee and asylum seeker reception camps
W. Kern
Freiburg (Germany)

09.003 Tracing antibiotic resistance genes along the migration pathways
G. Cornaglia
Verona (Italy)

09.004 Managing health and infections in refugees: Turkey's experience
N. Tulek
Ankara (Turkey)

Session 10 CME

Break-out Session/Oral Presentations

One Health - Diseases Across Species Boundaries

Co-Chairs: Stuart Handysides, United Kingdom
Cristina Ramirez-David, USA

Room: Klimt Ballroom 2&3 08:30–10:30
Upper Level Sunday, November 6, 2016

10.001 Intense human-animal interaction and limited capacity for the surveillance of zoonoses as drivers for Hepatitis E virus infections among animals and humans in Lao PDR
M. Pauly[1], C. P. Muller[1], A. P. Black[2], **C. J. Snoeck**[1]
[1]Esch-sur-Alzette (Luxembourg), [2]Vientiane (Lao)

10.002 The Vietnam Initiative on zoonotic infections (VIZIONs): An interim analysis of the epidemiology and aetiology of central nervous system infections
H. E. Brindle[1], M. Choisy[2], M. P. Tran[3], R. van Doorn[2], B. Nadjm[2], R. Christley[1], M. Griffiths[1], H. D. T. Nghia[3], G. Thwaites[3], S. Baker[3]
[1]Liverpool (United Kingdom), [2]Hanoi (Viet Nam), [3]Ho Chi Minh City (Viet Nam)

10.003 Interspecies transmission of influenza A viruses at the human-swine interface, West Africa
O. A. Adeola[1], B. O. Olugasa[2], B. O. Emikpe[2]
[1]Jos (Nigeria), [2]Ibadan (Nigeria)

10.004 Resurgence of influenza-A(H1N1) 2009 in Pakistan, November 2015-April 2016
M. A. M. K. Khan, J. ANsari, M. A. Ranjha, M. Salman, N. Hassan, U. Amir, S. Zaidi
Islamabad, (Pakistan)

10.005 Differential effect of pandemic H1N1/2009 virus introduction in pigs in Europe compared to West and Central Africa
C. J. Snoeck[1], O. Abiola[2], M. Okwen[3], A. Olubayo[2], A. Owoade[2], F. Wildschutz[4], C. P. Muller[4], J. Huebschen[1]
[1]Esch-sur-Alzette (Luxembourg), [2]Ibadan (Nigeria), [3]Bamenda (Cameroon), [4]Luxembourg (Luxembourg)

10.006 Monoclonal antibody-mediated clearance of rabies virus from the central nervous system: Implications for future approaches to rabies therapy
P. De Benedictis[1], A. Minola[2], E. Rota Nodari[1], R. Aiello[1], A. Lanzavecchia[2], H. Bourhy[3], D. Corti[2]
[1]Legnaro (PD) (Italy), [2]Bellinzona (Switzerland), [3]Paris (France)

10.007 Host-symbionts interactions between bats and coronaviruses
S. Leopardi[1], L. Tassoni[1], P. Priori[2], M. Gastaldelli[1], D. Scaravelli[2], P. De Benedictis[1]
[1]Legnaro (Italy), [2]Forli (Italy)

10.008 Nipah virus ecology and infection dynamics in its bat reservoir, *Pteropus medius,* in Bangladesh
J. H. Epstein[1], S. J. Anthony[1], A. Islam[2], A. M. Kilpatrick[3], S. Ali Khan[4], N. Ross[1], I. Smith[5], J. Barr[5], C. Zambrana-Torrelio[2], Y. Tao[6], A. Islam[2], P. L. Quan[7], K. Olival[1], E. Gurley[2], M. J. Hossain[2], H. E. Field[8], M. Fielder[9], T. Briese[1], M. Rahman[2], G. Crameri[5], L.-F. Wang[10], S. Luby[11], W. I. Lipkin[1], P. Daszak[1]
[1]New York, NY (USA), [2]Dhaka (Bangladesh), [3]Santa Cruz (USA), [4]Chittagong (Bangladesh), [5]Geelong (Australia), [6]State College, PA (USA), [7]Stony Brook, NY (USA), [8]Brisbane (Australia), [9]London (United Kingdom), [10]Singapore (Singapore), [11]Stanford, CA (USA)

10.009 Global correlates of emerging zoonoses: Anthropogenic, environmental, and biodiversity risk factors
T. Allen[1], K. Murray[2], C. Zambrana-Torrelio[1], S. Morse[1], C. Rondinini[3], V. Di Marco Lo Presti[4], K. Olival[1], P. Daszak[1]
[1]New York, NY (USA), [2]London (United Kingdom), [3]Rome (Italy), [4]Barcellona (Italy)

10.010 Prevalence and risk factors of seropositivity to *C.burnetii* infection in dairy farms and dairy farmers, Chiang-Mai,Thaialnd 2015
P. Doung-ngern[1], P. Padungtod[1], M. Emch[2], D. Weber[2], G. Kersh[3], G. Koch[2], S. Meshnick[2]
[1]Nonthaburi (Thailand), [2]Chapel Hill, NC (USA), [3]Atlanta, GA (USA)

10.011 Tuberculosis in captive elephants and mahouts: Implications to health policy
D. Abraham[1], K. Venugopal[2], S. Cork[3]
[1]Kozhikode(India), [2]Kottayam (India), [3]Calgary (Canada)

10.012 The first reported human Rift Valley Fever outbreak in Uganda, 2016
H. Kyobe Bosa[1], R. Majwala[2], S. Kabwama Ndugwa[2], R. G. Downing [1], H. Kibuuka[2], N. Kiwanuka[2], J. J. Lutwama[1]
[1]Entebbe (Uganda), [2]Kampala (Uganda)

10.013 Determining hotspots of human exposure to rodents, bats and monkeys in Bangladesh
I. S. Shanta[1], S. P. Luby[2], K. Hossain[1], S. S. U. Ahmed[1], T. Rahman[1], E. Kennedy[3], M. A. Y. Sharker[4], A. M. Kilpatrick[5], J. R. C. Pulliam[6], E. S. Gurley[1]
[1]Dhaka (Bangladesh), [2]Stanford, CA (USA), [3]Atlanta, GA (USA), [4]Gainesville, FL (USA), [5]Santa Cruz, CA (USA), [6]Stellenbosch (South Africa)

Coffee Break

Ground Level & Upper Level **10:30–11:00 Sunday, November 6, 2016**

Session 11 CME

Plenary Lecture

Trends in Antimicrobial Resistance in Europe

Chair: Mike Catchpole, United Kingdom

Room: Park Congress Ground Level **11:00–11:45 Sunday, November 6, 2016**

11.001 Trends in antimicrobial resistance in Europe
D. L. Monnet
Stockholm (Sweden)

Poster Presentations II (Session 20)

Sunday, November 6, 2016 **11:45–13:15**
Bruckner/Mahler/Brahms - Upper Level and **Klimt Ballroom 1 - Upper Level**

Posters 20.001–20.215 (see pages 33–45)

Info Session (description see page 4)

P£10m Longitude Prize & Lunch

Room: Klimt Ballroom 2&3 Upper Level **13:15–14:15 Sunday, November 6, 2016**

To find out more about this Prize, how you could take part, and about the support we offer, please join us.

Session 12 CME

Break-out Session

Hot Topics in Emerging Infections

Co-Chairs: Julio Pinto, Italy
Natalia Pshenichnaya, Russian Federation

Room: Park Congress Ground Level **14:30–16:00 Sunday, November 6, 2016**

12.001 MERS-CoV
Z. Memish
Riyadh (Saudi Arabia)

12.002 Transboundary animal diseases and social instability
L. Myers
Rome (Italy)

12.003 Crimean-Congo hemorrhagic fever
O. Ergonul
Istanbul (Turkey)

12.004 Avian influenza viruses at the animal human interface: Progress and challenges in under resourced countries
G. Cattoli
Vienna (Austria)

12.005 The sterile insect technique as a tool for control of insect vectors and vector-borne diseases
K. Bourtzis
Vienna (Austria)

Session 13 CME

Break-out Session/Discussion

Data Sharing and Ethics of Big Data

Chair: Effy Vayena, Switzerland

Room: Klimt Ballroom 2&3 Upper Level **14:30–16:00 Sunday, November 6, 2016**

Round Table Discussion:
Data sharing and ethics of the big data

13.001 K. Littler
London (United Kingdom)

13.002 D. Harper
London (United Kingdom)

13.003 V. Moorthy
Geneva (Switzerland)

Coffee Break

Ground Level & Upper Level **16:00–16:30 Sunday, November 6, 2016**

Session 14 CME

Break-out Session

Managing the Next Outbreak

Co-Chairs: Michelle Doll, USA
Norbert Nowotny, Austria & UAE

Room: Park Congress Ground Level **16:30–18:00 Sunday, November 6, 2016**

14.001 Metagenomics and molecular diagnostics for emerging infectious diseases
E. Rubin
San Francisco, CA (USA)

14.002 Therapeutic considerations for emerging viral infections
P. A. Tambyah
Singapore (Singapore)

14.003 Communicating during outbreaks: What works, what doesn't
H. Branswell
Boston, MA (USA)

Session 15 CME

Break-out Session/Oral Presentations

Lessons from Ebola—Preparing for the Next Pandemic

Co-Chairs: Larry Lutwick, USA
Alison Holmes, United Kingdom

Room: Klimt Ballroom 2&3 Upper Level **16:30–18:00 Sunday, November 6, 2016**

15.001 An economic model for introducing a quadrivalent conjugate meningococcal vaccine among adolescents in South Africa
S. G. P. Lengana[1], A. von Gottberg[1], S. Meiring[1], C. von Mollendorf[1], J. Moyes[2], C. Cohen[1]
[1]Johannesburg (South Africa), [2]Nelspruit (South Africa)

15.002 Point-of-care molecular diagnostics for epidemic-prone viruses
C. Escadafal, A. Kwasiborski, L. Magro, B. Jacquelin, P. Garneret, F. Monti, P. Tabeling, P. Lafaye, J.-C. Manuguerra, J. Vanhomwegen
Paris (France)

15.003 Effectiveness of masks and respirators against respiratory infections in healthcare workers: A systematic review and meta-analysis
V. Offeddu, C.-F. Yung, M. S. F. Low, C. Tam
Singapore (Singapore)

15.004 Utility, feasibility and acceptance of an online platform for tropical diseases contact tracing
P. E. Pantoja, J. Gomez-Junyent, N. Serret, J. Muñoz-Gutierrez A. Vilella, A. Trilla
Barcelona (Spain)

15.005 Building specimen referral networks to support outbreak response
S. K. Lakiss[1], J. Fischer[2], C. Standley[2], R. Muhayangabo[1], **W. Heegaard**[3]
[1]Conakry (Guinea), [2]Washington, DC (USA), [3]Los Angeles, CA (USA)

15.006 Establishing EVD testing at a mobile laboratory using GeneXpert technology in Liberia—Impact on surveillance system, outbreak detection and patient management
P. Raftery[1], C. Wasunna[1], J. Kpaka[1], R. Zwizwai[2], O. Condell[3], V. Katwerra[1], P. Hardy[1], P. Sahr[1], A. Gasasira[1], T. Nyenswah[1]
[1]Monrovia (Liberia), [2]London (United Kingdom), [3]Dublin (Ireland)

15.007 Potential impact of sexual transmission on Ebola virus epidemiology: Sierra Leone as a case study
J. Abbate[1], C. L. Murall[2], H. Richner[3], **C. Althaus**[3]
[1]Montpellier (France), [2]Gottingen (Germany), [3]Berne (Switzerland)

15.008 Promoting safe sex and condom use among Ebola virus disease (EVD) survivors to mitigate risk of sexual transmission through clinic-based education and semen testing in 3 districts in Sierra Leone
J. Garland[1], **A. Myers**[2], A. Oxner[2], E. Headrick[3], K. Tekuyama[4], J. Gottesfeld[5], K. Dierberg[5], M. Calderon[5], K. O'Neil[5], S. Bangura[6]
[1]Los Angeles, CA (USA), [2]Tampa (USA), [3]Atlanta, GA (USA), [4]Kono (Sierra Leone), [5]Freetown (Sierra Leone), [6]Port Loko (Sierra Leone)

15.009 First data in African subjects for the monovalent Janssen Ebola Zaire heterologous prime-boost vaccines, combining Ad26.ZEBOV and MVA-BN-Filo
O. Anzala[1], G. Mutua[1], B. Nyaoke[1], C. Robinson[2], K. Luhn[2], B. Callendret[2], R. Thiebaut[3], M. Snape[4], D. Watson-Jones[5], M. Douoguih[2]
[1]Nairobi (Kenya), [2]Pennsylvania (USA), [3]Bordeaux (France), [4]Oxford (United Kingdom), [5]London (United Kingdom)

Mayor's Cocktail Reception

Sunday, November 6, 2016 **19:30–22:30**
City Hall Doors open at 19.00hrs

Session 16 CME

Break-out Session

Antimicrobial Resistance in the One Health Context

Co-Chairs: Jacques Acar, France
Damien Joly, Canada

Room: Park Congress 08:30–10:30
Ground Level Monday, November 7, 2016

16.001 Antimicrobial resistance in Lebanon from the food chain: A One Health perspective
G. M. Matar
Beirut (Lebanon)

16.002 Colistin Resistance, MCR1
S. Granier
Maisons-Alfort (France)

16.003 ResistanceOpen: A web application for global antibiotic resistance monitoring
D. MacFadden
Toronto (Canada)

16.004 Ecology and environmental drivers of antimicrobial resistance
U. Theuretzbacher
Vienna (Austria)

Session 17 CME

Break-out Session/Oral Presentations

Innovative Approaches to Emerging Disease Surveillance

Co-Chairs: Miguel O'Ryan, Chile
Nico Preston, USA

Room: Klimt Ballroom 2&3 08:30–10:30
Upper Level Monday, November 7, 2016

17.001 Estimating FluNearYou correlation to CDC's ILINet
R. Arafat, E. Bakota, E. Santos
Houston, TX (USA)

17.002 The first phase of PREDICT: Surveillance for emerging infectious zoonotic diseases of wildlife origin (2009–2014)
D. Joly[1], C. Kreuder Johnson[2], T. Goldstein[2], S. J. Anthony[3], W. Karesh[3], P. Daszak[3], N. Wolfe[4], S. Murray[5], J. Mazet[2]
[1]Nanaimo (Canada), [2]Davis, CA (USA), [3]New York, NY (USA), [4]San Francisco, CA (USA), [5]Washington, DC (USA)

17.003 Emerging and re-emerging infectious diseases in displaced populations 1998 to 2016: An analysis of ProMED-mail reports
J. W. Ramatowski[1], L. Madoff[1], B. Lassmann[1], N. Marano[2]
[1]Brookline, MA (USA), [2]Atlanta, GA (USA)

17.004 Digital functions in a participatory One Health surveillance initiative aiming for pandemic averting
P. Susampao[1], K. Chanachai[1], P. Petra[1], T. Yano[2], S. Pattamakaew[2], E. Laiya[2], L. Srikitjakarn[2], A. Crawley[3], J. Olsen[3], M. Smolinski[3]
[1]Bangkok (Thailand), [2]Chiang Mai (Thailand), [3]San Francisco, CA (USA)

17.005 Economics of One Health: Evidence of substantial benefits of integrated West Nile virus surveillance
G. Paternoster[1], S. Babo Martins[2], A. Mattivi[1], R. Cagarelli[1], P. Angelini[1], R. Bellini[3], M. Tamba[1], A. Santi[1], J. Rushton[2], K. Stärk[2]
[1]Bologna (Italy), [2]London (United Kingdom), [3]Crevalcore (Italy)

17.006 Developing a transdisciplinary database for operationalization of One Health surveillance for Japanese Encephalitis in India
E. T. Rogawski[1], **P. Chatterjee**[2], M. Kakkar[3]
[1]Charlottesville, VA (USA), [2]Gurgaon (India), [3]New Delhi (India)

17.007 Analyzing a hepatitis A outbreak by integrating space-time distances and network approach as evidences-based assessment of vaccination policy
M.-H. Lin, W.-C. chen, Y.-L. Liu, H.-W. Kuo, J.-K. Wang, D.-P. Liu
Taipei (Taiwan, R.O.C.)

17.008 Emergence and surveillance of hepatitis E in humans, EU/EEA, 2005–2015
C. Adlhoch[1], E. Aspinall[2], J. Takkinen[1]
[1]Stockholm (Sweden), [2]Glasgow (United Kingdom)

17.009 Validation of EGCRISC for HCV infection screening and risk assessment in the Egyptian population
E. M. El-Ghitany, A. Farghaly,
E. Abd El-Wahab, S. Farag
Alexandria (Egypt)

17.010 The role of phylogenetic lineage in *Escherichia coli* O157:H7 risk: Location, location, location
G. A. M. Tarr[1], S. Shringi[2], J. Wakefield[1], A. I. Phipps[1], T. E. Besser[2], P. I. Tarr[3], P. Rabinowitz[1], J. Mayer[1]
[1]Seattle, WA (USA), [2]Pullman, WA (USA), [3]St. Louis, MO (USA)

17.011 The efficacy of passive surveillance for HPAI H5N1 in Nigeria: Practices that affect early detection of disease outbreaks in poultry
A. E. Ojimelukwe[1], J. Rushton[2]
[1]Port Harcourt (Nigeria), [2]London (United Kingdom)

17.012 Comparing laboratory surveillance with the notifiable disease surveillance system in South Africa
F. G. Benson, L. Blumberg, L. Rispel
Johannesburg (South Africa)

17.013 Data sharing in public health emergencies
D. Mietchen
Bethesda, MD (USA)

Coffee Break

Ground Level & Upper Level **10:30–11:00 Monday, November 7, 2016**

Session 18

CME

Plenary Lecture

The Global Virome Project

Chair: Britta Lassmann, USA

Room: Park Congress Ground Level **11:00–11:45 Monday, November 7, 2016**

18.001 The global virome project
P. Daszak[1], **D. Carroll**[2]
[1]New York, NY (USA), [2]Washington, DC (USA)

Session 19

Poster Presentations I

Saturday, November 5, 2016 11:45–13:15
Bruckner/Mahler/Brahms • Upper Level

Posters 19.001–19.157

Antimicrobial Resistance

19.001 Anti-tuberculosis evaluation, triterpenoidal and fatty acid constituents of Ximenia Americana (Olacaceae) stem bark methanol extract
O. E. Afieroho[1], N. Emenyonu[2], L. Lawson[2]
[1]Port Harcourt, Rivers (Nigeria), [2]Abuja (Nigeria)

19.002 Resistance of *Streptococcus pneumoniae* in Jordanian pediatric carriers, 2015–2016
A. Al-Lahham, N. Khanfar
Amman (Jordan)

19.003 Appraisal of antimicrobial medicinal plants with the potential of improving health condition in developing tropical countries
E. Agwu[1], **B. Alkali**[2], V. Rao V[3]
[1]Ishaka, Bushenyi (Uganda), [2]Kano (Nigeria), [3]Bushneyi (Uganda)

19.004 Plasmid-mediated colistin-resistance in *Escherichia coli* isolated from poultry and broiler meat in Austria in 2016
F. Allerberger[1], G. Weissensteiner[1], B. Springer[1], C. Schlagenhaufen[1], H. Lassnig[1], W. Ruppitsch[2], S. Jelovcan[1]
[1]Graz (Austria), [2]Vienna (Austria)

19.005 Virulence factor profiles and genetic background of quinolone-resistant *Escherichia coli* isolated from hospital effluent
L. Anssour, Y. Messai, R. Bakour
Algiers (Algeria)

19.006 Extracellular biosynthesis of silver nanoparticles from *Bacillus brevis* (NCIM 2533) and their antibacterial activity against multi-drug resistance clinical isolates
S. Muthupandian[1], **S. K. Barik**[2], R. S. Konthala[3]
[1]Ethiopia (Ethiopia), [2]Aberdeen (United Kingdom), [3]Gujrat (India)

19.007 Antibiotic susceptibility and β-lactamase production of Gram-negative bacteria from swimming pools in Slovenia
B. Bedenic[1], M. Siroglavic[1], N. Beader[1], K. Godic-Torkar[2], I. Marekovic[1]
[1]Zagreb (Croatia), [2]Ljubljana (Slovenia)

19.008 What's happening in invasive pneumococcal resistance, a single center experience
H. Bilgin, C. Mutlu, G. Altınkanat, V. Korten, L. Mülazimoğlu
Istanbul (Turkey)

19.009 Genomic characterization of *Neisseria gonorrhoeae* isolates with reduced susceptibility to cephalosporins in Guangdong, China
H. Zheng[1], T. Luo[2], X. Wu[1], D. Liang[2], X. Qin[1], **D. P. Chan**[2]
[1]Guangzhou (China), [2]Hong Kong (China)

19.010 Market and policy drivers of antibiotic use in smallholder periurban dairy farms: A scoping literature review
P. Chatterjee[1], M. Kakkar[2]
[1]Gurgaon, Haryana (India), [2]New Delhi, Delhi (India)

19.011 Veterinary antibiotic use in smallholder periurban dairy farms of India: A qualitative study
A. S. Chauhan, S. George, P. Chatterjee, M. Kakkar
Gurgaon (India)

19.012 *Pseudomonas aeruginosa* profile of resistance to quinolones and carbapenem parallelly to usage of quinolones and carbapenem
J. E. Choucair
Beirut (Lebanon)

19.013 Risk factors for the acquisition of colistin and carbapenem-resistant *Klebsiella pneumoniae* in Medellín-Colombia, an endemic region for carbapenem resistance
A. V. Cienfuegos, A. M. Ocampo, L. F. Higuita, N. Jiménez
Medellín (Colombia)

19.014 Antibiotic resistance in the Western Pacific Region: A systematic review
B. J. Cowling, W. W. Lim, J. Y. T. Wong, V. J. Fang, P. Wu
Hong Kong (China)

19.015 Survey on antimicrobial resistance of *Helicobacter pylori* to tetracycline and metronidazole by Etest and Real Time-PCR methods
K. Dadashzadeh[1], S. Behtasi[2]
[1]Marand (Iran), [2]Tabriz (Iran)

19.016 Patient level risk factors for Carbapenem-Resistant *Enterobacteriaceae* at a low prevalence tertiary care center in the United States
M. Doll, N. Masroor, Y. Major, C. Doern, M. Stevens, M. Flemming, K. Cooper, G. Bearman
Richmond, VA (USA)

19.017 Persistence of bacteria in sanitized hands and prevalent antibiotic resistotypes
L. O. Egwari, T. Ezenwammadu, T. Adegbayi, O. Ayepola, F. Babalola
Ota (Nigeria)

19.018 Bloodstream infections and antibiotic susceptibility of anaerobes isolated from orthopedic patients
L. O. Egwari[1], O. Ayepola[1], N. Nwokoye[2], O. Olubi[2], F. Faparusi[1], F. Babalola[1]
[1]Ota (Nigeria), [2]Lagos (Nigeria)

19.019 Detection of extended spectrum beta lactamase producing strains among clinical isolates of *Escherichia coli* and *Klebsiella pneumoniae* in Alexandria using Chrom-ID ESBL agar and molecular techniques
A. Elhefnawy, S. Amer, N. Seeda, E. Elshehy
Alexandria (Egypt)

19.020 Antibiotic susceptibility testing on bacterial isolates from wound infections
N. Ezenobi
Port Harcourt (Nigeria)

19.021 Trends in the minimum inhibitory concentrations of antibiotics for treatment of pertussis in strains of *Bordetella pertussis* isolated in the Czech Republic
K. Fabianova, V. Jakubů, J. Zavadilova, P. Urbaskova
Prague (Czech Republic)

19.022 How does India compare to Europe in terms of systemic antibiotic use: Evidence from pharmaceutical sales data (2008–2012)
H. H. Farooqui[1], A. Mehta[2], S. Selvaraj[2], D. Heymann[3]
[1]Gurgaon (India), [2]New Delhi (India), [3]London (United Kingdom)

19.023 Advancement of Dairying in Austria (ADDA): Mastitis in dairy cows – milk sample testing, antibiotic use and antimicrobial resistance
C. L. Firth, A. Schabauer, A. Käsbohrer, C. M. Gruber, L. Rabensteiner, M. Wagner, K. Rychli, W. Obritzhauser
Vienna (Austria)

19.024 Pathogens causing device-associated infections and Carbapenem resistance among gram-negative pathogens causing infections in ICU
M. A. Gad, A. A. El-Kholy, M. G. Elanany, M. M. Sherif
Cairo (Egypt)

19.025 Poblational and biochemical-structural analyses on CTX-M β-lactamases harboring the D240G mutation reveal that *E. coli* populations with decreased susceptibility to ceftazidime preexist under a multifactorial resistance profile
B. Ghiglione[1], M. M. Rodríguez[1], F. Brunetti[1], M. Dropa[2], L. Curto[1], P. Power[1], **G. Gutkind**[1]
[1]Buenos Aires (Argentina), [2]Sao Paulo (Brazil)

19.026 Antimicrobial resistance bacteria isolated from mastitic cows
W. Y. Ibrahim
Khartoum (Sudan)

19.027 Antibiotic resistance in *Enterobacter cloaceae* with derepressed/partly derepressed/inducible AmpC and extended-spectrum beta-lactamase in Zenica-Doboj Canton, Bosnia and Herzegovina
A. Ibrahimagić[1], S. Uzunović[1], B. Bedenić[2]
[1]Zenica (Bosnia and Herzegovina), [2]Zagreb (Croatia)

19.028 High occurrence of multiple genes in ESBL-producing inpatient and outpatient isolates in Zenica-Doboj Canton, Bosnia and Herzegovina
A. Ibrahimagić[1], S. Uzunović[1], B. Bedenić[2]
[1]Zenica (Bosnia and Herzegovina), [2]Zagreb (Bosnia and Herzegovina)

19.029 Molecular epidemiology and antimicrobial susceptibility of AmpC- and/or extended-spectrum (ESBL) β-lactamase- producing *Proteus* spp. clinical isolates in Zenica-Doboj Canton, Bosnia and Herzegovina
S. Uzunović[1], **A. Ibrahimagić**[1], B. Bedenić[2]
[1]Zenica (Bosnia and Herzegovina), [2]Zagreb (Croatia)

19.030 Evaluation of tetracycline resistance genes during avian manure composting process
F. Esperón[1], M. M. Delgado[2], **I. Iglesias**[1], M. Carballo[1], M. Ugarte-Ruíz[2], M. Á. Moreno[2], J. L. Tadeo[2], A. Torre[1]
[1]Valdeolmos (Spain), [2]Madrid (Spain)

19.031 Detection of plasmid-mediated colistin resistance (*mcr-1)* in *E. coli* isolated from pig caecum in Austria
S. Jelovcan[1], P. Leekitcharoenphon[2], G. Weissensteiner[1], R. S. Hendriksen[2], H. Lassnig[1], F. Allerberger[3], B. Springer[1]
[1]Graz (Austria), [2]Kgs. Lyngby (Denmark), [3]Vienna (Austria)

19.032 Antimicrobial resistance of *Pseudomonas aeruginosa* strains isolated from surgical wards
S. L. Pandrea, **L. M. Junie**, L. S. Pepelea, M. I. Ciontea, L. Matros
Cluj-Napoca (Romania)

19.033 Species of non-fermentative Gram–negative bacilli other than *Pseudomonas aeruginosa* isolated from surgical wards in Regional Institute of Gastroenterology and Hepatology Cluj Napoca, Romania
S. L. Pandrea, **L. M. Junie**, L. S. Pepelea, M. I. Ciontea, L. Matros
Cluj-Napoca (Romania)

19.034 *In Vitro* efficacy of essential oils alone and in combination with fluconazole against azole-resistant strains of *Cryptococcus neoformans*
M. S. A. Khan[1], I. Ahmad[2]
[1]Dammam (Saudi Arabia), [2]Aligarh (India)

19.035 Quinolone resistance determinants of *Salmonella enteritidis* isolated from patients in Thailand
F. Utrarachkij[1], C. Nakajima[2], R. Changkwanyeun[2], K. Siripanichgon[1], **S. Kongsoi**[3], S. Pornruangwong[4], O. Suthienkul[1], Y. Suzuki[2]
[1]Bangkok (Thailand), [2]Sapporo (Japan), [3]Nakhon Pathom (Thailand), [4]Nonthaburi (Thailand)

19.036 Colistin only sensitive *Acinetobacter baumanii* infection involving prosthetic joints
A. Kukreja, H. Sulaiman, N. Atiya
Kuala Lumpur (Malaysia)

19.037 Bacteriophages against multidrug resistant bacterial infections
M. Kutateladze, L. Leshkasheli, D. Bolkvadze, L. Askilashvili, N. Balarjishvili
Tbilisi (Georgia)

19.038 Exotoxin-profiling and typing of clinical Panton-Valentine Leukocidin positive MSSA versus MRSA
J. Kläger[1], K. Krziwanek[2], R. Gattringer[2], W. Graninger[1], **H. Lagler**[1]
[1]Vienna (Austria), [2]Linz (Austria)

19.039 Prevalence and characterization of carbapenem-resistant gram-negative bacteria isolated from Tamil Nadu, India
P. Manohar, N. Ramesh, K. Gothandam, T. Shanthini
Vellore (India)

19.040 Prevalence and antimicrobial-resistance features of *Staphylococcus* spp. from pets.
M. L. Menandro, D. Pasotto, G. Dotto, A. Mondin, M. Martini
Legnaro, PD (Italy)

19.041 Fecal carriage of extended spectrum beta lactamase-producing *E. coli* and *K. pneumoniae* among street children in Mwanza, Tanzania
N. Moremi[1], H. Claus[2], U. Vogel[2], S. E. Mshana[1]
[1]Mwanza (Tanzania), [2]Würzburg (Germany)

19.042 Antimicrobial resistant pattern of methicillin-resistant *Staphylococcus aureus* isolated from stray dogs' nasal swabs to fifteen antimicrobials in Myanmar
T. T. Myaing[1], K. K. Thaw[2], L. L. Htun[2], M. M. Mhon[2], S. Bawm[2], K. S. Linn[2], S. S. Wai[2]
[1]Yangon (Myanmar), [2]Nay Pyi Taw (Myanmar)

19.043 The antibiotic resistance pattern of water polluting cocci around the Danube river mouth
M. Spinu, M. Niculae, G. F. Brudasca, C. D. Sandru, **E. Pall**
Cluj (Romania)

19.044 Resistance of nosocomial pathogens in burns unit (Yaroslavl, Russia)
S. Palyutin, I. Vedenin, V. Berezin, A. Shagarova, M. Ershova, E. Poletaeva, S. Angelova, G. Abrosimova
Yaroslavl (Russian Federation)

19.045 Prevalence of ESBL-producing *Escherichia coli* from different canine populations in Italy
D. Pasotto, M. L. Menandro, G. Dotto, F. R. Tonellato, A. Mondin, M. Martini
Legnaro (Italy)

19.046 Prevalence and antimicrobial-resistance characterization of vancomycin resistant enterococci (VRE) strains in healthy household dogs in Italy
D. Pasotto, G. Dotto, M. L. Menandro, A. Mondin, M. Martini
Legnaro (Italy)

19.047 Antimicrobial activities of recombinant rabbit neutrophil peptides (NP-1) against two clinical strains of antibiotic-resistant bacteria
Y.-H. Peng, X. Wang, Z.-M. Hu
Beijing (China)

19.048 Detection of carbapenemase production by multidrug-resistant *acinetobacter baumannii* isolates from selected wards in Dr. George Mukhari Academic Hospital
D. T. Phofa
Pretoria (South Africa)

19.049 Antimicrobial resistance of opportunistic microflora in adults with acute infectious diarrhea and approaches to improve its susceptibility to basic antimicrobials
N. Pshenichnaya[1], A. Buslenko[1], A. Aleshukina[1], A. Usatkin[1], O. Kostenko[1], S. Khukazova[1], A. Zhuravlev[2]
[1]Rostov-on-Don (Russian Federation), [2]Moscow (Russian Federation)

19.050 Establishing phenotypic susceptibility testing of influenza virus to oseltamivir as a laboratory diagnostic method
K. Y. Puong, K. P. Chan
Singapore (Singapore)

19.051 Kinetics of *Candida tropicalis* with antifungal medicinal Plant with reference to synergism
F. Saeed, S. G. Nadeem, S. Tabassum
Karachi (Pakistan)

19.052 Monitoring of antibiotic therapy in Acute Respiratory Infections (ARIs) complicated with community-acquired pneumonia in children
B. Turdalinaa, **A. Seidullayeva**
Astana (Kazakhstan)

19.053 Bacterial load occurrence and antibiogram of salmonella species from cattle carcasses and the processing environment in Abuja Abattoirs, Nigeria
A. O. Shaibu[1], E. Okolocha[1], B.-V. Maikai[1], O. Olufemi[2]
[1]Zaria, Kaduna (Nigeria), [2]Taraba (Nigeria)

19.054 Pefloxacin as a surrogate marker to determine susceptibility to quinolones drugs in *Salmonella enterica* Serovar Typhi: Structural and molecular analysis
P. Sharma, M. Kumar, S. Dahiya, P. Kaur, S. Sood, B. K. Das, A. Kapil
Delhi (India)

19.055 Effect of sub-lethal concentration of vancomycin on biofilm formation by *Staphylococcus* species
K. Shrestha, B. Rijal, S. Mlshra
Kathmandu (Nepal)

19.056 Risk assessment of the exposure of people to methicillin-resistant *Staphylococcus aureus* (MRSA) from dogs
M. I. Neves, J. Pinto Ferreira, **K. Stärk**
Liebefeld (Switzerland)

19.057 Population-based surveillance of antibiotic dispensing in Alberta, Canada
L. Svenson, K. Simmonds
Edmonton (Canada)

19.058 Uropathogens and antimicrobial susceptibility patterns in urinary tract infections diagnosed in the primary care setting in Singapore
M. X. Tan, K. Mannath, L. P. Ng, P. L. Hu, K. S. P. Moey, K. T. Tan, Y. L. A. Koong, T. Y. Tan, C. S. Wong, N. C. Tan
Singapore (Singapore)

Vectorborne Diseases

19.059 Canine leishmaniosis: Serological comparison of a commercial rapid test with a quantitative enzyme-linked immunosorbent assay test for detection of anti-*Leishmania infantum* antibodies
S. Villanueva-Saz, M. T. Verde-Arribas, D. Ripolles-Lopez
Saragossa (Spain)

Bioterrorism and Biological Warfare

19.060 Scenario-based assessment of decontamination methodology for biosafety and biosecurity applications
B. Crook, J. Farrant, C. Makison-Booth, A. Beswick
Buxton (United Kingdom)

19.061 Imported melioidosis cases increasing in Portugal
A. C. Pelerito, R. Cordeiro, I. Lopes de Carvalho, J. Rodrigues, E. Ferreira, C. Silva, R. Romão, M. Caniça, M. S. Nuncio
Lisbon (Portugal)

19.062 Improving biosecurity in Pakistan: Report from an IATA guidelines training for transportation of biological agents
H. Shafaq, S. Qureshi, S. Shakoor
Karachi (Pakistan)

Climate Change and Ecological Factors in Disease Emergence

19.063 An outbreak of scrub typhus in Nepal following the 2015 Gorkha earthquake
A. Bastola, N. Pant
Kathmandu (Nepal)

19.064 *Naegleria fowleri* an old organism become new emergence in Karachi, Pakistan
N. A. Irfan, S. G. Nadeem, S. Javed, I. G. Baig
Karachi (Pakistan)

19.065 Trends in re-emergence of FMD in bovines in varying Geo-climatic conditions in Pakistan
A. Khan, M. Hassan Mushtaq, M. Ud Din Ahmad, Z. Fatima, S. Hussain Farooqi, A. Khan
Lahore, Pakistan (Pakistan)

19.066 Emerging infectious diseases in the Anthropocene
S. Sholts, D. Lucey
Washington DC (USA)

19.067 Changing environment and the incidence of visceral leishmaniasis in Teresina, Brazil
A. Almeida, E. Braga, M. H. Hasselmann, **G. L. Werneck**
Rio de Janeiro (Brazil)

19.068 Epidemiology of Crimean-Congo hemorrhagic fever (CCHF) in Pakistan, 2012–2015
J. A. Ansari, M. Ali Khan, R. Muazzam Abbas, M. Salman
Islamabad (Pakistan)

Diseases at the Interface of Humans, Wildlife and Other Animals

19.069 Avian influenza risk from live bird markets to local poultry and the impact on local poultry farmers livelihood
A. Assam[1], P. A. Abdu[2]
[1]Obubra (Nigeria), [2]Zaria (Nigeria)

19.070 Strengthening One Health epidemiological surveillance in Armenia with EIDSS
L. Avetisyan[1], A. Melikyan[1], A. Burdakov[2], A. Ukharov[2]
[1]Yerevan (Armenia), [2]New York, NY (USA)

19.071 Coagulase positive staphylococcal colonization of HIV-infected and healthy humans and their household pets
K. Bierowiec, A. Szymczak, B. Knysz, Ł. Gaweł, K. Rypuła
Wroclaw (Poland)

19.072 Timeliness for visceral leishmaniasis detection in Albania
S. Bino, A. Vasili, J. Sulo, T. Myrseli, R. Petrela, P. Pipero, J. Crilly
Tirana (Albania)

19.073 Addressing bovine tuberculosis in smallholder periurban dairy farms of India: A qualitative study
A. S. Chauhan[1], S. George[1], P. Chatterjee[1], M. Kakkar[2]
[1]Gurgaon (India),[2]New Delhi (India)

19.074 First serological evidence of West Nile virus in horses and dogs from Corsica Island, France
M. Maquart[1], M. Dahmani[1], J.-L. Marié[2], P. Gravier[1], I. Leparc-Goffart[1], **B. Davoust**[1]
[1]Marseilles (France), [2]Toulon (France)

19.075 A survey on Trypanosoma cruzi infection of dogs in French Guiana
D. Tahir[1], **B. Davoust**[1], K. Heu[2], T. Lamour[3], J.-L. Marié[3], D. Blanchet[2]
[1]Marseille (France), [2]Cayenne (France), [3]Toulon (France)

19.076 Wild birds as carriers of antimicrobial-resistant and ESBL-producing *Enterobacteriaceae*
G. Dotto, M. L. Menandro, A. Mondin, M. Martini, F. R. Tonellato, D. Pasotto
Legnaro (Italy)

19.077 Epidemiology of hydatid disease in Markazi province of Iran (2011–2015)
A. Farazi, N. Zarrinfar, F. Khazaie, F. Keyhani
Arak (Iran)

19.078 Epidemiology of anthrax in Markazi province of Iran (2011–2015)
A. Farazi, N. Zarrinfar, F. Khazaie, F. Keyhani
Arak (Iran)

19.079 Seroprevalence and risk factors for equine arboviral infections (Eastern Equine Encephalomyelitis, Western Equine Encephalomyelitis, Venezuelan Equine Encephalomyelitis and West Nile Fever) in Costa Rica
S. Hutter[1], M. Baldi[1], C. L. Firth[1], B. León[2], A. Käsbohrer[1], C. Jimenez[2]
[1]Vienna (Austria), [2]Heredia (Costa Rica)

19.080 Aortitis due to non-typhoidal *Salmonella* in a young immunocompetent man
A. Khalil, N. Gulati, B. Joseph, M. Maruf
Staten Island, New York (USA)

19.081 Prevalence and predictors of type 2 diabetes among newly diagnosed and sputum positive tuberculosis patients in Western Cameroon
S. F. Leonard
Dschang (Cameroon)

19.082 Detection of human rhinovirus in cerebrospinal fluid of children with viral encephalitis
X. D. Lu[1], L. Guang Yu[2], W. Qiong[3], Z. Yin Hui[3]
[1]Shen Zhen
[1]Guang Dong (China), [2]Shantou (China), [3]Shen Zhen (China)

19.083 Pilot survey on brown rats as possible reservoirs of Q Fever and Leptospirosis in cattle
L. Ceglie[1], E. Guerrini[1], M. B. Boniotti[2], G. Cunico[3], E. Schiavon[4], **L. Lucchese**[1], A. Natale[1]
[1]Legnaro (Italy), [2]Brescia (Italy), [3]Vicenza (Italy), [4]Padua (Italy)

19.084 Studying the role of diallyl sulfide in ameliorating ethanol induced adipose tissue injury
P. P. M. Mandal
Anand (India)

19.085 Potential zoonotic pathogens in bat species in South Africa
W. Markotter, M. Dietrich, M. Geldenhuys, T. Kearney, S. McCulloch, M. Mortlock, E. Seamark, P. Janse van Vuren, J. Weyer, J. Paweska
Pretoria (South Africa)

19.086 Tick-borne zoonotic bacteria in fallow deer (*Dama dama*) in Euganean Hills Regional Park of Italy
M. L. Menandro[1], **M. Martini**[1], G. Dotto[1], A. Mondin[1], G. Ziron[2], D. Pasotto[1]
[1]Legnaro (Italy), [2]Este (PD) (Italy)

19.087 PREDICT-2: Bridging the gap between wildlife and human disease in Lao PDR
D. McIver[1], S. Silithammavong[2], W. Theppangna[2], J. Mazet[3], T. Goldstein[3], S. J. Anthony[4], P. Daszak[4], N. Wolfe[5], C. Kreuder Johnson[3], D. Joly[1]
[1]Nanaimo (Canada), [2]Vientiane (Lao), [3]Davis, CA (USA), [4]New York, NY (USA), [5]San Francisco (USA)

19.088 Japanese encephalitis outbreak among children in Mayurbhanj, Odisha-India, 2015
P. Nayak[1], A. Pradhan[2], S. Sethi[2], B. Patnaik[2], M. Pradhan[2], K. C. Dash[2]
[1]New Delhi (India), [2]Bhubaneswar (India)

19.089 Experience in treatment of residual cystic echinococcosus in children
L. Ermakova[1], **N. Pshenichnaya**[1], T. Tverdokhlebova[1], Y. Kirtanasov[1], K. Bolatchiev[2]
[1]Rostov-on-Don (Russian Federation), [2]Cherkessk (Russian Federation)

19.090 Eco-epidemiological analysis of rickettsia infection in rural areas from Colombia: A multilevel approach
J. C. Quintero Vélez, L. Osorio, A. Uribe, C. Muskus, C. Rojas
Medellín (Colombia)

19.091 A study of bacterial contamination in feces of macaques in Lopburi Province, Thailand
S. Thongyuan[1], P. Sanyathitiseri[1], S. Viriyarumpa[1], S. Duangrasamee[1], D. Boonkusol[2], P. Tulayakul[1]
[1]Bangkok (Thailand), [2]Lopburi (Thailand)

19.092 Leptospirosis in the Caribbean: A One Health approach
A. Vokaty[1], R. Thomas[2], S. Ahmed[2], A. Van Sauers[3], L. Linnette Peters[4], B. Louison[5], J. Da Silva[6], K. Gikonyo[7], S. Rahaman[1], J. Pradel[8]
[1]Port of Spain (Trinidad and Tobago), [2]Roseau (Dominica), [3]Paramaribo (Suriname), [4]Kingston (Jamaica), [5]St. Georges (Grenada), [6]Georgetown (Guyana), [7]Grand Cayman (United Kingdom), [8]Domaine Duclos (Guadeloupe)

19.093 Brucellosis in Cameroon: Seroprevalence and risk factors in beef-type cattle
B. Ojong[1], E. Macleod[2], M. L. Ndip[3], **A. Zuliani**[4], E. Piasentier[4]
[1]Yaoundé (Cameroon), [2]Edinburgh (United Kingdom), [3]Buea (Cameroon), [4]Udine (Italy)

Diseases of Animals

19.094 Molecular screening for *Coxiella burnetii* in seropositive ruminant herds in Portugal
S. Anastacio[1], N. Tavares[1], C. Cruz[1], K. Sidi-Boumedine[2], G. J. da Silva[1]
[1]Coimbra (Portugal), [2]Sophia Antipolis (France)

19.095 Chronic opisthorchiasis: Current situation in the Republic of Kazakhstan
N. Beisenbieva[1], M. Shaidarov[1], G. Imambayeva[1], **D. Bayesheva**[1], H. H. Johannes [2]
[1]Astana (Kazakhstan), [2]Amsterdam (Netherlands)

19.096 First description of african horse sickness virus serotype 7 in healthy horses in northern Senegal
N. D. Diouf[1], E. Etter[2], S. Lecollinet[3], S. Zientara[3], D. Klinkenberg[4], A. J. Akakpo[5]
[1]Bambey (Senegal), [2]Pretoria (South Africa), [3]Maisons-Alfort (France), [4]Amsterdam (Netherlands), [5]Dakar (Senegal)

19.097 Detection of Foot and Mouth Disease in Landi Dairy Colony, Pakistan, the world largest buffalo colony
D. Jabeen, S. G. Nadeem
Karachi (Pakistan)

19.098 Pathogens in domestic cats and dogs in the Canary Islands, Spain
B. Valladares-Salmeron[1], A. Martín-Alonso[2], M. Valladares-Salmeron[1], **N. Martin-Carrillo**[2], K. Garcia-Livia[2], B. Valladares[2], P. Foronda[2]
[1]La Laguna (Spain), [2]Santa Cruz de Tenerife (Spain)

19.099 Overwintering of epizootic hemorrhagic disease virus in white-tailed deer in Florida, USA: Unanticipated seroconversion and the case for alternative vectors
K. Sayler[1], E. Blosser[2], B. McGregor[2], N. Burkett-Cadena[2], S. M. S. W. Wisely[2]
[1]Gainesville, FL (USA), [2]Vero Beach, FL (USA)

19.100 Genetic disease susceptibility and surveillance system sensitivity: Classical scrapie
K. Schulman, T. Lyytikäinen
Helsinki (Finland)

19.101 Suspected case of West Nile Virus (WNV) in the territory of ASL Sassari (Sardinia)
F. Sgarangella, D. Marongiu, G. Bitti, S. Masala, V. Floris, B. Mossa, P. Desini
Sassari (Italy)

Ethical Issues in Emerging Diseases and Disease Surveillance

19.102 Accompagnment and adherence to DOTS treatments for tuberculosis in 100 patients
D. H. Goepogui
Conakry (Guinea)

19.103 *Pneumocystis jiroveci* pneumonia the who and the where identifying the population at risk
L. A. McCorry, A. O'Grady
Belfast (United Kingdom)

19.104 Evaluation of measles surveillance system in Katsina State, Northwestern Nigeria. 2009–2012
U. L. Shehu[1], A. Hamza[2]
[1]Abuja (Nigeria), [2]Katsina (Nigeria)

19.105 Reducing the impact of emerging infections through data sharing
L. Merson, **A. Vessiere**
Oxford (United Kingdom)

Foodborne and Waterborne Diseases

19.106 Parasitic contamination of raw vegetables consumed in Asmara Eritrea
K. S. Ahmed, M. Zemat, T. Fissehatsion, A. Desale, E. Tesfu, M. Teshome, D. Eman
Asmara (Eritrea)

19.107 An outbreak of gastroenteritis due to contaminated water supply in Kotha Kalan, Rawalpindi, November, 2015.
F. Bashir, Z. Hussain, M. A. Baig, R. J. Asghar
Islamabad (Pakistan)

19.108 Environmental persistence of human rotavirus causing a large outbreak in Western Mindanao, Philippines, 2016
J. M. Bonifacio, M. A. Igoy, S. Lupisan, A. Tandoc
Muntinlupa City (Philippines)

19.109 Ecology and surveillance of *Listeria monocytogenes* on dairy cattle farms
H. K. Castro, M. Lindström
Helsinki (Finland)

19.110 Biosynthesis of ethylene gas by a range of bacteria as an alternative of calcium carbide for fruit ripening
M. Hamid, M. Munir, S. G. Nadeem
Karachi (Pakistan)

19.111 In vitro detection and characterization of *Listeria monocytogenes* from raw milk samples
S. Javed, A. Fatima, A. Shafiq
Karachi (Pakistan)

19.112 Genetic diversity of *Campylobacter jejuni* and *Campylobacter coli* isolates from Austria
S. Jelovcan[1], S. Lepuschitz[2], M. Blaschitz[2], M. Selinschek[1], A. Ledolter[1], A. Indra[2], W. Ruppitsch[2], T. Pölzler[1], M. Matt[3]
[1]Graz (Austria), [2]Vienna (Austria), [3]Innsbruck (Austria)

19.113 Environmental health factors associated with diarrhoea in the under five children in Mtendere, Lusaka, Zambia
F. M. Kabinga, A. Mbewe, J. Banda
Lusaka (Zambia)

19.114 Rapid real-time PCR for the detection of *Vibrio parahaemolyticus* in seafood
S. H. Kim, Y. S. Lee, S. H. Kim, H. S. Kwak
Cheongju (Korea)

19.115 Community-level risk factors for foodborne and waterborne disease in Gyounggi province, South Korea, 2015
S. Min, D. Jeong, S.-N. Jo, S. Yi, H. Lee
Gyeonggi (Korea)

19.116 Prevalence of acute hepatitis A virus and hepatitis E virus in urban cities of Sindh, Pakistan
A. Muneer
Karachi (Pakistan)

19.117 The Use of Social Media and Business Reviews for Foodborne Illness Surveillance
E. Nsoesie[1], J. Hawkins[2], G. Tuli[2], S. Kluberg[2], J. Brownstein[2]
[1]Seattle, WA (USA), [2]Boston, MA (USA)

19.118 Biopreservative effects of lactic acid bacteria against foodborne pathogens
A. Shafiq, S. Javed, A. Fatima
Karachi (Pakistan)

19.119 Whole-genome sequencing analysis of *Listeria monocytogenes* isolated in South Africa
A. Smith[1], P. Naicker[2], C. Bamford[2], L. Shuping[1], K. McCarthy[1], A. Sooka[1], S. Smouse[1], N. Tau[1], K. Keddy[1]
[1]Johannesburg (South Africa), [2]Cape Town (South Africa)

Infections of Public Health Significance

19.120 Maternal cytomegalovirus (CMV) seroprevalence and primary CMV infection during pregnancy
J. I. Abeynayake, C. Gunasekara, M. Perera, N. Wickramasinghe, A. Hearth, M. Hettige, C. Abeynayake
Colombo (Sri Lanka)

19.121 Laboratory confirmed clinically suspected herpes encephalitis
J. I. Abeynayake, N. Wickramasinghe, M. Hettige, C. Abeynayake
Colombo (Sri Lanka)

19.122 Association between *Trichomonas vaginalis* infection and preterm labor among pregnant women in Ardabil, Iran
Z. Ahadi Dolatsara, **M. T. Ahady**, R. Dargahi
Ardabil (Iran)

19.123 Seroprevalence of *Bartonella henselae* and *Bartonella quintana* infections in children from central and northern Jordan
K. M. M. Al-Qudah
Irbid (Jordan)

19.124 Prevalence and susceptibility profile of bacterial agents of Pelvic inflammatory disease among hospital attendee in Bushenyi district, Uganda
E. Agwu[1], **B. Alkali**[2], A. Shab[3]
[1]Ishaka (Uganda), [2]Kano (Niger), [3]Kampala (Nigeria)

19.125 Identification of *Mycobacterium caprae* in a dairy farm in Northeastern Italy
L. Amato[1], M. L. Pacciarini[2], E. Schiavon[1], M. Zanoni[2], M. B. Boniotti[2], A. Ferronato[3], A. Montagna[3], S. Costa[3], M. Brichese[4], L. Bonfanti[1]
[1]Legnaro, (Italy), [2]Brescia (Italy), [3]Cittadella (Italy), [4]Venice (Italy)

19.126 The incidence of Urinary Schistosomiasis among the people of Ohaukwu L.G.A. of Ebonyi state, Nigeria
C. O. Anorue[1], B. Nwoke[2], C. Ukaga[2]
[1]Abakaliki, Ebonyi (Nigeria), [2]Owerri (Nigeria)

19.127 The most common epidemiological, clinical and laboratory characteristics of patients with anthrax in Armenia
H. Apresyan, M. Davidyants, L. Atoyan, V. Asoyan, A. Mkrtchyan, A. Hovhannisyan
Yerevan (Armenia)

19.128 Preparing for Zika virus in Houston, Texas: A comprehensive, city-wide approach
R. Arafat, R. Arnold, D. Persse
Houston, TX (USA)

19.129 Antibiotic susceptibility of *Escherichia coli* and *Staphylococcus aureus* strains isolated in raw cow milk from the Sumapaz region, Colombia
N. E. Arenas[1], D. Abril[1], P. Valencia[1], S. Khandige[2], C. Y. Soto[3], V. Moreno[1]
[1]Fusagasuga (Colombia), [2]Odense (Denmark), [3]Bogota (Colombia)

19.130 Molecular characterization of multidrug-resistant *Mycobacterium tuberculosis* isolated from different hospitals in Kathmandu valley
S. Aryal, S. P. Lekhak, P. Parajuli
Kathmandu (Nepal)

19.131 Estimating variation within and between MLST types of *S. aureus* based on wgMLST
D. Babenko[1], M. Toleman[2]
[1]Karaganda (Kazakhstan), [2]Cardiff (United Kingdom)

19.132 Common intestinal infectious diseases in the Republic of Armenia
T. Balayan, N. Grigoryan, L. Torosyan, S. Melikjanyan, A. Vanyan
Yerevan (Armenia)

19.133 Effects of some amphizoic amoeba spread in human environments—new incidences of the emerging threat with the vision-threatening disease of public health significance
W. Baltaza, K. Pionkowski, M. Padzik, M. Dybicz, L. Chomicz
Warsaw (Poland)

19.134 The growth of infection of *H. pylori* and decreased immunity: Alarming recent trend
O. F. Belaya, Y. Belaya, E. Volchkova, K. Umbetova, O. Paevskaya, M. Vakchrameeva
Moscow (Russian Federation)

19.135 Patient sharing and the interplay between acute and long-term care *C. difficile* incidence in the United States veterans health administration: A retrospective cohort study of 169 facilities
K. A. Brown[1], M. Samore[2]
[1]Toronto (Canada), [2]Salt Lake City, UT (USA)

19.136 Seroprevalence of *Toxoplasma gondii* among childbearing women in Western Romania
I. D. Capraru, V. Dumitrascu, T. R. Olariu
Timisoara (Romania)

19.137 Epidemiology of diabetic foot infection in a tertiary care hospital in Beirut
J. E. Choucair
Beirut (Lebanon)

19.138 Retrospective clinical epidemiological characteristics of patients with tularemia hospitalized in 'Nork' infectious clinical hospital, 2000–2015, Yerevan, Armenia
M. Davidyants, H. Apresyan, L. Atoyan, V. Asoyan, A. Mkrtchyan, A. Hovhannisyan
Yerevan (Armenia)

19.139 Detection of Rotavirus antigen among Pigs in Pig-Raising Communities and Institutional piggeries in Zaria and Environs, Kaduna State, Nigeria
T. A. Delia[1], A. A. Dzikwi[1], J. K. Kwaga[1], G. S. Kia[1], O. T. Olufemi[2]
[1]Zaria, Kaduna (Nigeria), [2]Wukari (Nigeria)

19.140 Whole transcriptome analysis to elucidate the role of *M. tuberculosis* curli pili (MTP) on host gene regulation in a pulmonary epithelial cell model
M. Dlamini[1], N. Mvubu[1], B. Pillay[1], A. Christoffels[2], M. Pillay[1]
[1]Durban (South Africa), [2]Cape Town (South Africa)

19.141 Evaluation of pet animals involved in assisted interventions (AAI) as potential carriers of bacteria resistant to antimicrobials: Preliminary data
G. Dotto, D. Pasotto, H. Poser, M. L. Menandro, M. Berlanda, M. E. Falomo, A. Mondin, M. Martini Legnaro (Italy)

19.142 Seropositivity of delta hepatitis in patients with positive hepatitis B surface antigen, between 2011 and 2016
M. Ugur, S. Ünlü, **C. Eryıldız**, N. Sakru, A. Tezel
Edirne (Turkey)

19.143 Frequency of HbeAg mutants in blood samples of Pakistani patients clinically suspected for Hepatitis B virus infection using real-time PCR
H. H. F. Faisal
Karachi, Sindh (Pakistan)

19.144 Microbiological study of *Clostridium difficile* infection in hospitalized patients
S. Afifi, F. A. Gomaa, **L. F. Fathi**, F. Rasslan
Cairo (Egypt)

19.145 *Mtb* Acetyltransferase reduces the oxidative stress response and increases intracellular persistence via peroxisomal biogenesis
G. Ganguli, A. Sonawane
Bhubaneswar (India)

19.146 Point of care urine lipoarabinomannan antigen detection for diagnosis of tuberculosis in Pediatric population
H. H. G. Gautam[1], U. B. Singh[1], R. Lodha[2], S. Kabra[2], R. Prakash[1], R. Jain[2]
[1]Ansari Nagar (India), [2]New Delhi (India)

19.147 Cross-sectional study on echinococcosis in Aragacotn region of Armenia, 2014
K. Gevorgyan, L. Paronyan, A. Vanyan, A. Keshishyan
Yerevan (Armenia)

19.148 Comparative seropositivity against leptospirosis between rice cultivators and non-rice cultivators
A. Gohar
Lahore (Pakistan)

19.149 Seroprevalence of T*oxoplasma gondii* and heptitis b virus infection among pregnant women attending antenatal clinic in selected health institutes of Jigjiga east Ethiopia
A. N. Gudeta
Jigjiga (Ethiopia)

19.150 Do coinfection patients with HIV/HCV respond differently to new hepatitis C treatments than HCV monoinfected patients? Data from HAVACS and the Atlanta Veterans Affairs Medical Center
J. Guest, R. Rai, E. Cartwright
Atlanta, GA (USA)

19.151 Clinical, laboratory and Imaging characteristics in patients with Neurological deficits in Tuberculous meningitis and its effect on patient outcome
R. Gupta, M. Chaturvedi, S. Kushwaha, N. Jalan, P. Rawat, R. Thakur
Delhi (India)

19.152 Risk of West Nile virus among horses in Qatar: A preliminary study
M. Haroun[1], A. Siddig[1], E. Farag[1], H. Mohammed[2], A. Alhussein[3]
[1]Doha(Qatar), [2]Ithica, NY (USA), [3]Khartoum (Sudan)

19.153 Structural-Functional polymorphism of HBX, a potential oncogene of HBV
N. A. Hussain
Karachi (Pakistan)

19.154 Pneumococcal meningitis: Clinical aspects, bacterial profile and clinical course
E. S. Maryem, **D. Ibrahim**, C. Abdelfetah, S. Mustapha, M. Latifa, M. E. F. Kamal
Casablanca (Morocco)

19.155 Federal state level management of an imported Lassa fever case to North Rhine-Westphalia, Germany, March 2016
A. Maisa, S. Thole, I. Daniels-Haardt, **A. Jurke**
Münster (Germany)

19.156 Survey on the impact of the Ebola outbreak in West Africa on public health in North Rhine-Westphalia, Germany
A. Maisa, I. Daniels-Haardt, **A. Jurke**
Münster (Germany)

19.157 Evaluation of acute flaccid paralysis (AFP) surveillance system in Balochistan
A. H. Kakar, A. Saeed
Quetta (Pakistan)

Session 19

Poster Presentations I

Saturday, November 5, 2016 11:45–13:15
Klimt Ballroom 1 • Upper Level

Posters 19.158–19.215

Infections of Public Health Significance *(continued)*

19.158 Effect of parasite diversity on the levels and quality of antibody responses to *Plasmodium falciparum* in an area of seasonal malaria transmission
E. Kyei-Baafour, B. Tornyigah, L. Bimi, E. Dickson, B. Gyan, A. Kusi
Accra (Ghana)

19.159 Detection of viral RNA in tissues following plasma clearance from an Ebola virus infected patient
M. Biava[1], C. Caglioti[1], L. Bordi[1], C. Castilletti[1], F. Colavita[1], S. Quartu[1], E. Nicastri[1], F. N. Iauria[1], N. Petrosillo[1], S. Lanini[1], T. Hoenen[2], G. Kobinger[3], A. Zumla[4], A. Di Caro[1], G. Ippolito[1], M. R. Capobianchi[1], **E. Lalle**[1]
[1]Rome (Italy), [2]Greifswald (Germany), [3]Winnipeg (Canada), [4]London (United Kingdom)

19.160 Burden of Chagas disease related cardiomyopathy in Guyana
D. Isaac[1], W. Warnica[1], C. Spence[1], **A. R. Lehndorff**[1], K. Assen[1], J. Cole[2], S. Persaud[2], F. Moses[2], J. Alexandre[2], M. Carpen[2]
[1]Calgary (Canada), [2]Georgetown (Guyana)

19.161 Surveillance of Zika virus infection: The experience of an adult tertiary care hospital in Singapore
W. M. Kyaw, H. Y. Loke, A. Chow, M. Chan, **Y. S. Leo**
Singapore (Singapore)

19.162 Antiherpetic activity of two fullerene derivates in vitro and in vivo
I. Lialina[1], N. N. Nosik[2], N. G. Kondrashina[2]
[1]Nizni Novgorod (Russian Federation), [2]Moscow (Russian Federation)

19.163 Prevalence, risk factors and spatial distribution of *Ascaris lumbricoides* infection in Swaziland
V. Lokotfwako
Mbabane (Swaziland)

19.164 Exploring epidemics: A Smithsonian museum endeavor for the public
D. Lucey, S. Sholts, K. Blond, R. Costello, S. Murray
Washington, DC (USA)

19.165 Trichinellosis in western Romania a 4 year retrospective study
M. A. Lupu, E. V. Lazureanu, T. R. Olariu
Timisoara (Romania)

19.166 Association of Human Leukocyte Antigen alleles and Cytomegalovirus disease after Kidney Transplantation
S. Luscalov, L. I. Loga, D. A. Luscalov, C. G. Dragomir Loga, M. Junie, M. Lucan, L. Dican
Cluj Napoca (Romania)

19.167 Visceral leishmaniasis in Tavush Marz, Armenia, 2001–2016
G. Martirosyan, A. Nazinyan
Ijevan (Armenia)

19.168 Accidental sexual HIV exposure: Experience of an infectious diseases unit in Casablanca
E. S. Maryem, D. Ibrahim, C. Abdelfetah, S. Mustapha, M. Latifa, M. E. F. Kamal
Casablanca (Morocco)

19.169 Spotty fever tick: About 259 cases
E. S. Maryem, D. Ibrahim, S. Mustapha, M. Latifa, C. Abdelfetah, M. E. F. Kamal
Casablanca (Morocco)

19.170 Sero-prevalence of *Toxoplasma gondii* antibodies in slaughterhouse workers in Khartoum state, Sudan
M. Y. I. Medani, H. Mohamed, A. Majid, H. Mohamed, Y. Hamattalla
Khartoum (Sudan)

19.171 Outbreak Investigation of "Brain Eating Amoeba" (Primary Amoebic Meningoencephalitis) caused by *Naegleria fowleri*—Karachi, Pakistan, 2012–2014 (with 2015 updated)
S. Memon, F. N. Khan, M. A. Baig, R. J. Asghar
Islamabad (Pakistan)

19.172 The results of epizootiological monitoring of the natural foci for leptospirosis in Armenia
L. Mkrtchyan, H. Hakobyan
Yerevan (Armenia)

19.173 Meningococcal meningitis: 71 cases
E. F. Mouna, M. Sodqi, S. Jebbar, I. Dollo, L. Marih, A. Chakib, K. Marhoum Elfilali
Casablanca (Morocco)

19.174 Human rabies in Morocco
E. F. Mouna, M. Sodqi, H. Badi, I. Dollo, K. Marhoum Elfilali
Casablanca (Morocco)

19.175 Tetanus in adults: Overview
E. F. Mouna, S. Jebbar, M. Sodqi, L. Marih, A. Chakib, K. Marhoum Elfilali
Casablanca (Morocco)

19.176 Syphilis among HIV-infected patients: 135 cases
E. F. Mouna, I. Dollo, M. Sodqi, A. Chakib, K. Marhoum Elfilali
Casablanca (Morocco)

19.177 Aspects of HIV-epidemic in the Muslim Republic of the North-Caucasian Region
M. Nosik[1], R. Tlenkopachev[2], K. Ryzhov[1], S. Kuzin[1]
[1]Moscow (Russian Federation), [2]Nalchik (Russian Federation)

19.178 Immune responses induced in individuals with dual infection Tuberculosis (TB) and HIV during antiretroviral and TB therapy
M. Nosik, I. Rymanova, O. Lobach, S. Sevostyanihin, I. Kiseleva, N. Adamovich, A. Sobkin
Moscow (Russian Federation)

19.179 Socio-demographic and clinical profile of TB/HIV-co-infected patients
I. Rymanova, **M. Nosik**, S. Sevostyanihin, A. Sobkin
Moscow (Russian Federation)

19.180 Novel method of virus inactivation in plasma with millisecond technology
N. N. Nosik, D. Dolgopolov, N. G. Kondrashina
Moscow (Russian Federation)

19.181 The risk of sustained sexual transmission of Zika virus infection in England, United Kingdom
C. O'Connor, M. Pereboom, A. Walsh, H. Mohammed, J. Dunning
London (United Kingdom)

19.182 Group a Streptococcus pharyngitis and pharyngeal carriage a systematic review
J. Oliver[1], E. Malliya Wadu[1], N. Pierse[1], N. Moreland[2], D. Williamson[3], M. Baker[1]
[1]Wellington (New Zealand), [2]Auckland (New Zealand), [3]Melbourne (Australia)

19.183 Factors affecting infant feeding decisions and practices among hiv positive women attending Nasara clinic, Abuth 2016
A. A. Olorukooba[1], S. S. Yahaya[2], A. Lawal[1], H. Abdurrahman[1], A. Bayero[3], M. J. Ibrahim[1], B. Z. Popoola[1]
[1]Zaria (Nigeria), [2]Kastina (Nigeria), [3]Kano (Nigeria)

19.184 Seroepidemiological study to assess visceral leishmaniasis in Armenia, 2015
L. Paronyan, H. Apresyan, G. Avetisyan, K. Gevorgyan, L. Babayan, A. Vanyan
Yerevan (Armenia)

19.185 First report of G12P[8] group A rotavirus introduction in northern Italy, 2016
L. Pellegrinelli[1], G. Ianiro[2], L. Bubba[1], M. Monini[2], V. Primache[1], E. Pariani[1], F. M. Ruggeri[2], S. Binda[1]
[1]Milan (Italy), [2]Rome (Italy)

19.186 Prevalence and risk factors of HIV Infection among prisoners in Punjab, Pakistan 2013
A. Pervaiz
Islamabad (Pakistan)

19.187 Horizon scanning through media mining to identify medical products of human prigin-associated infectious risks: A pilot NOTIFY Project study
E. Petrisli[1], L. Noel[2], J. Schnitzler[3], J. R. Nunez[3], D. Fehily[4], M. Kuehnert[5], D. Domanovic[6], D. M. Strong[7], I. Ushiro-Lumb[8], A. Nanni Costa[1]
[1]Rome (Italy), [2]Annecy (France), [3]Geneva (Switzerland), [4]Brussels (Belgium), [5]Atlanta, GA (USA), [6]Solna (Sweden), [7]Edmonds,WA (USA), [8]London (United Kingdom)

19.188 Infections and antimicrobial use in Hungarian long-term care facilities in 2015: A questionnaire-based survey to evaluate initiatives and future developments
R. Szabó, **I. Prantner**, A. Kurcz
Budapest (Hungary)

19.189 Procedure categories under surgical site infection surveillance, Hungary, 2011–2015
I. Prantner, A. Szönyi, A. Kurcz
Budapest (Hungary)

19.190 Risk factors and prevalence, hepatitis B virus and hepatitis C virus among prison inmates, Chennai, India, 2015
M. Ramamoorthy, A. Venketeswaran, P. Seenivasan, M. Revathy, M. Manimaran, S. Chitra, M. Malarvizhi , T. Fredrick
Chennai (India)

19.191 *Chlamydia trachomatis* prevalence and serovar distribution in patients with urogenital infections
J. Rawre, B. Dhawan, R. Chaudhry, N. Khanna, V. Sreenivas
New Delhi (India)

19.192 Characteristics of tuberculosis (TB) and human immunodeficiency virus (HIV) coinfection and adverse effect of treatment in a cohort of hospitalized patients in Medellín, Colombia
L. Ruiz, M. A. Maya, Z. V. Rueda, L. López, L. A. Vélez
Medellín (Colombia)

19.193 Parasitic infections among school children in Corum, Turkey
A. Taylan Ozkan[1], **N. Sakru**[2], M. Emek[3], M. Mungan[4], M. Ertek[4]
[1]Corum (Turkey), [2]Edirne (Turkey), Antalya (Turkey), [4]Ankara (Turkey)

19.194 Evaluation of cystic echinococcosis suspected cases in Edirne Turkey between 2006 and 2015
N. Sakru, G. Kuyucuklu, C. Eryıldız
Edirne (Turkey)

19.195 Incidence of meningococcal disease in children in Astana city
A. Seidullayeva[1], G. Zhaxylykova[1], D. Bayesheva[1], B. Turdalina[1], M. Balgayeva[1], A. Kushugulova[1], D. Greenberg[2], G. Volkova[1]
[1]Astana (Kazakhstan), [2]Beer-Sheva (Israel)

19.196 Epidemiological pattern of measles infection among children under five years in Katsina State, Northern Nigeria. 2009–2012
U. L. Shehu[1], A. Hamza[2], H. Idris[2]
[1]Abuja (Nigeria), [2]Katsina (Nigeria)

19.197 Association of genetic polymorphism of the DNA base excision repair gene (*APE-1 Asp/148 Glu*) and HPV type (16/18) with the risk of cervix cancer in north Indian population
M. Shekari
Bandar Abbas (Iran)

19.198 Microhematospermia in acute Zika virus infection
N. Martinez, Z. Moro, **J. Torres**
Caracas (Venezuela)

19.199 Preparedness and response during Mass gatherings: The ongoing experience of the Regional Plan for surveillance and response to infectious diseases emergencies during the extraordinary Jubilee 2015–2016
F. Vairo, M. Sane Schepisi, F. Perrelli, V. Di Bari, R. Pisapia, E. Nicastri, F. N. Iauria, G. Ippolito, P. Scognamiglio, V. Puro
Rome (Italy)

19.200 The prevalence of Hepatitis E Virus in HIV-infected patients in China
L. wang, H. Zeng, P. Liu
Beijing (China)

19.201 Anti-Zika virus IgA as putative indicator of acute infection in anti-Zika virus IgM-negative patients
K. Steinhagen[1], J. Schmidt-Chanasit[2], P. Emmerich[2], E. Lattwein[1], J. Fraune[1], W. Schlumberger[1], **J. M. Warnecke**[1]
[1]Lübeck (Germany), [2]Hamburg (Germany)

19.202 Accessibility and utilization of tuberculosis dots services among patients attending primary health care facilities in Katsina State
S. S. Yahaya[1], A. A. Olorukooba[2], A. Lawal[2], H. Abdurrahman[2]
[1]Kastina (Nigeria), [2]Zaria (Nigeria)

19.203 Epidemiological Features of legionellosis in a Province of South Korea, 2011–2016
S. Yi, H. Lee
Gyeonggi (Korea)

Outbreak Response and Control

19.204 A systematic review of healthcare associated outbreaks in Singapore post SARS: 2003–2016
Y. Goh, H. Badaruddin, C. Senthamarai, P. M. Rajan, P. A. Tambyah
Singapore (Singapore)

Infections Related to Travel and Migration

19.205 Dengue virus nonstructural protein 1 induces platelet activation and promotes platelet aggregation
C.-H. Chao
Tainan (Taiwan, R.O.C.)

19.206 Dengue transmission through human movement in regular and seasonal patterns on Koh Chang island in Thailand
C. Y. Hou[1], P. Kittayapong[2], J. Mumford[1], L. R. Carrasco[3]
[1]London (United Kingdom), [2]Bangkok (Thailand), [3]Singapore (Singapore)

19.207 Refugee health and the risk of cutaneous Leishmaniasis in Europe
A. Khamesipour[1], B. Rath[2]
[1]Tehran (Iran),
[2]Berlin (Germany)

19.208 Three patients from Suriname with possibly Zika virus associated Guillain-Barré syndrome
T. Langerak[1], H. Yang[2], J. Codrington[2], H. Alberga[2], B. Jacobs[1], C. Geurts van Kessel[1], C. Reusken[1], M. Koopmans[1], E. van Gorp[1], S. Vreden[2]
[1]Rotterdam (Netherlands),
[2]Paramaribo (Suriname)

19.209 Analysis of dengue imported cases in South Korea, 2001–2015
S. Park D. Lee
Chungbuk (Korea)

19.210 Newly introduced RRTTRR (Reach-Recruit/Refer-Test-Treat-Retain-Resilience) strategy to increase early TB case detection and effective treatment among migrants: Thailand's first ever experiences
N. W. Phyo
Bangkok (Thailand)

19.211 Malaria—a new re-merging disease in Albania
P. Pipero, N. Como, A. Harxhi, E. Meta, A. Ndreu, T. Kalo, **S. Bino**, M. Kokici, T. Myrseli, D. Kraja
Tirana (Albania)

19.212 Ebola viral disease screening at Birmingham (United Kingdom) airport—Successes and challenges
B. Sibal, J. C. Moll
Birmingham (United Kingdom)

19.213 Zika virus infection in Czech travellers
M. Trojanek[1], H. Rohacova[1], H. Zelena[2], N. Sojkova[1], Z. Karimova[1], T. Rudova[1], F. Stejskal[1]
[1]Prague (Czech Republic), [2]Ostrava (Czech Republic)

19.214 FLIRT, a web application to predict the movement of infected travelers validated against the current zika virus epidemic
A. Huff[1], T. Allen[1], **K. A. Whiting**[1], B. Arnold[2], N. Breit[3], A. Miessler[4]
[1]New York, NY (USA), [2]Malone, NY (USA), [3]Taipei (Taiwan, R.O.C.), [4]Grass Valley, CA (USA)

Outbreak Response and Control

19.215 Tools and methods employed by community health centers in the prevention and control of Zika virus infections in Bahia, Brazil
F. E. Tesha
Durham, NC (USA)

Session 20

Poster Presentations II

Sunday, November 6, 2016 11:45–13:15
Bruckner/Mahler/Brahms • Upper Level

Posters 20.001–20.161

Outbreak Modeling

20.001 Nowcasting incidence of emergent zika virus infection and its outbreaks using Google Trends data: Examples from Brazil and Colombia
D. C. Fortescue-Webb, **B. D. Dimitrov**
Southampton (United Kingdom)

Influenza and Other Respiratory Infections

20.002 Secondary data analysis of national influenza reference laboratory, Abuja, Nigeria, May, 2015
A. A. Ahmad
Abuja (Nigeria)

20.003 Screening of respiratory virus PCR panel in adults with CNS infection
S. J. Ahn, J.-S. Sunwoo, H. S. Lee, J.-A. Lim, J. Moon, S.-T. Lee, K.-H. Jung, S. K. Lee, K. Chu
Seoul (Korea)

20.004 Detection of rhinovirus-associated asthma exacerbations using reverse transcriptase-polymerase chain reaction in Egyptian children
M. El-Seify[1], **M. M. A. M. Al-Fahham**[2], N. Salah El-Deen[1], S. El-Nashar[1]
[1]Cairo (Egypt), [2]Kuwait (Kuwait)

20.005 A cross-sectional serosurvey of influenza A and B virus-specific IgG antibodies in Emirati children
A. Alsuwaidi[1], L. Al-Mekaini[1], S. Kamal[2], H. Narchi[1], A.-K. Souid[2]
[1]Al Ain (United Arab Emirates), [2]Abu Dhabi (United Arab Emirates)

20.006 Genetic characterization of isolated Influenza C viruses in the Philippines, 2006–2012
V. L. F. ARGUELLES
Muntinlupa (Philippines)

20.007 High-throughput bead based suspension array for the detection of acute respiratory viral pathogens among children aged <5 years in Pakistan
F. Aziz[1], J. Samad[1], I. Rizvi[1], A. Sami[1], S. Qureshi[1], I. Nisar[1], N. Brown[2], F. Jehan[1]
[1]Karachi (Pakistan), [2]Salisbury (United Kingdom)

20.008 Influenza vaccine un-neutralized viruses associated with a specific seasonality pattern in Uganda: The HA/ HAI approach
T. Byaruhanga, J. T. Kayiwa, B. Namagambo, J. Namulondo, N. Owor, B. Bakamuntumaho, I. Nabukenya, J. J. Lutwama
Entebbe (Uganda)

20.009 Short period incidence study of severe acute respiratory infection (SPRINT-SARI) initial data from a global observational study to better describe SARI epidemiology in critically ill patients
G. L. Carson[1], L. Castle[1], M. George[2], P. Horby[1], K.-S. Longuere[1], L. Merson[1], S. Murthy[3], G. O'Neill[2], R. Pardinaz-Solis[1], S. Webb[2]
[1]Oxford (United Kingdom), [2]Melbourne (Australia), [3]Vancouver (Canada)

20.010 Cyclical patterns of flu incidence dynamics and their associations with variations in the diseases of the circulatory system in USA for the years 1993–2007
B. D. Dimitrov
Southampton (United Kingdom)

20.011 Cross sectional survey of live bird markets, migratory and wild birds for low and highly pathogenic circulating influenza subtypes in Pakistan
Z. Fatima[1], A. Ullah[1], A. W. Yunus[1], A. Khan[2], M. Luqman[2]
[1]Islamabad (Pakistan), [2]Lahore (Pakistan)

20.012 About the predictive positive value of the clinical diagnosis in the seasonal flu epidemic from Bucharest, Romania 2016
N. Ion Nedelcu, P. I. Calistru
Bucharest (Romania)

20.013 Prevalence of influenza A viruses in livestock and free-living waterfowl in Uganda
H. Kirunda
Tororo (Uganda)

20.014 Clinical features and risk factors predicting severe influenza: The experience of an adult tertiary care hospital in Singapore
W. M. Kyaw A. Chow, H. J. A. Ho, A. A. Hein, J. Loh, A. Tan, **Y. S. Leo**
Singapore (Singapore)

20.015 Detection of respiratory viruses by multiplex RT-PCR with a GeXP analyzer
X. D. Lu[1], Q. Wang[2], Y. H. Zhang[2]
[1]Shen Zhen, Guang Dong (China), [2]Shenzhen (China)

20.016 Human rhinovirus viremia in patients hospitalized with community-acquired pneumonia
X. Lu[1], S. Jain[1], A. Bramley[1], E. Schneider[1], K. Ampofo[2], W. Self[3], J. Chappell[3], E. Anderson[3], K. M. Edwards[3], D. Erdman[1]
[1]Atlanta, GA (USA), [2]Salt Lake City, UT (USA), [3]Nashville, TN (USA)

20.017 Co-circulation of multiple reassortant influenza viruses in a swine farm
A. Fusaro[1], L. Tassoni[1], **A. Milani**[1], A. Salviato[1], G. Di Martino[1], M. Mion[1], L. Bonfanti[1], S. Watson[2], I. Monne[1], M. S. Beato[1]
[1]Legnaro (Italy), [2]Hinxton (United Kingdom)

20.018 Impact of host immunity in the mammalian adaptation of an H3N6 avian influenza virus
A. Fusaro[1], G. Zamperin[1], **A. Milani**[1], A. Salviato[1], A. Romero[1], G. Cattoli[2], I. Monne[1], F. Bonfante[1]
[1]Legnaro(Italy), [2]Seibersdorf (Austria)

20.019 Viral population diversity in vaccinated poultry host infected with H5N1 highly pathogenic avian influenza virus
A. Milani[1], A. Fusaro[1], G. Zamperin[1], F. Bonfante[1], M. Mancin[2], E. Mastrorilli[2], H. Ali Hussein[3], M. Hassan[4], G. Cattoli[2], I. Monne[1]
[1]Legnaro (Italy), [2]Padua (Italy), [3]Giza (Egypt), [4]Cairo (Egypt)

20.020 Swine influenza A serology: ELISA *versus* HI test
F. Rizzo, C. Lovecchio, F. Ingravalle, L. Ceccarelli, B. Sona, M. L. Mandola
Turin (Italy)

20.021 Prevalence of respiratory virus infections using multiplex real-time PCR in Korean nationwide reference laboratory (2015 annual report)
K. Roh, H. Park, H. Shim
Seoul (Korea)

20.022 Knowledge, attitudes and practices of parents towards childhood influenza vaccination in Singapore
M. Low, H.Y. Tan, M. Hartman, **C. Tam**
Singapore (Singapore)

20.023 Vaccine efficacy of seasonal influenza vaccine programme among Singapore military personnel in 2012–2015
X. Zhao, A. Cook, J.V. Pang
Singapore (Singapore)

20.024 Molecular characterization of H6 subtype influenza viruses in southern China from 2009 to 2011
S. M. ZOU
Beijing (China)

Innovations in Diagnostic Tests for Emerging Diseases

20.025 Comparative evaluation of ante-mortem tuberculosis diagnostics in Asian elephants *(Elephas maximus)*
S. Devarajan[1], D. Abraham[2]
[1]Thiruvananthapuram, Kerala (India), [2]Kozhikode, Kerala (India)

20.026 Viral load and oxidative stress in Egyptian chronic hepatitis C patients
B. A. M. El Awady, B. Hussein, E. El-Seidi, Y. Abou-Hamed
Cairo (Egypt)

20.027 Point of care of testing in molecular diagnostics: Evaluation of GeneXpert HCV RNA for diagnosing and monitoring of HCV infection
E. Gupta, P. Ranjan, G. Kumar
Delhi (India)

20.028 A Diagnostic and Epidemiologic Investigation of Acute Febrile Illness (AFI) in Kilombero, Tanzania
C. A. Hercik[1], L. Cosmas[2], O. Mogeni[2], N. Wamola[2], W. Kohi[3], C. Ochieng[2], C. Onyango[2], B. Fields[2], S. Mfinanga[3], J. Montgomery[2]
[1]Washington, DC (USA), [2]Nairobi (Kenya), [3]Dar es Salaam (Tanzania)

20.029 Comparative meningitis diagnostic performance of a resource limited laboratory and a WHO accredited reference laboratory during a major outbreak of meningitis in Brong Ahafo, Ghana
G. K. Kuma[1], J. A. Opintan[2], D. Opare[2], D. Odai[1], D. Ameme[2], K. Brenda[3], R. Bannerman[1], O.-K. Afreh[1], E. Foster-Nyarko[3], M. Antonio[3]
[1]Sunyani (Ghana), [2]Accra (Ghana), [3]Banjul (Gambia)

20.030 Deployment of rapid and portable diagnostic test for field surveillance of Ebola virus disease in Guinea
Y. Kurosaki[1], N. Magassouba[2], O. Oloniniyi[1], J. Yasuda[1]
[1]Nagasaki (Japan), [2]Conakry (Guinea)

20.031 Prevalence of *Actinotignum schaalii* in patients with urinary tract infections combined with leukocyturia and inconclusive bacteriological results
T. Hammer, W. Graninger, **H. Lagler**
Vienna (Austria)

20.032 A Luminex-based multiplex assay for the simultaneous detection of glycoprotein specific antibodies to ebolaviruses, marburgviruses, and henipaviruses
E. Laing, L. Yan, S. Sterling, C. Broder
Bethesda/MD (USA)

20.033 Fast track diagnostics Zika virus kit—A real-time PCR based diagnostics assay
P. Leidinger-Kaufmann, M. Steimer, W. Carman
Esch-sur-Alzette (Luxembourg)

20.034 Early identification and antimicrobial susceptibility testing from positive blood culture bottles using MALDI-TOF MS
M. G. Elanany, **R. Mostafa**, T. Mansoor, H. Maher
Cairo (Egypt)

20.035 Fast-track Diagnostics Enteric fever assay: From pre-enrichment to multiplex real-time PCR
E. Nicolas[1], S. Pouzol[2], L. Fabre[3], F.-X. Weill[3], H. Endtz[4], B. Carman[5]
[1]Esch-sur-Alzette (Luxembourg), [2]Lyon (France), [3]Paris (France), [4]Dhaka (Bangladesh), [5]Luxembourg (Luxembourg)

20.036 Comparative efficacy of diagnostic test methods for *Plasmodium* species
G. I. Olasehinde[1], U. Oyeka[2], O. Ayepola[2], A. Ajayi[2]
[1]Ota, Kwara (Nigeria), [2]Ota (Nigeria)

20.037 Effectiveness of measuring blood antibody titer and biofilm-forming ability in *Staphylococcus aureus* bacteremia
M. Yamashita
Himeji (Japan)

Innovations in Surveillance for Non-communicable Diseases

20.038 A cross sectional survey on gastrointestinal parasites in backyard poultry in Pakistan "Highly affordable model survey"
A. Khan[1], M. Hassan Mushtaq[1], G. Nawaz[1], M. Nawaz Malik[1], Z. Fatima[2]
[1]Lahore (Pakistan), [2]Islamabad (Pakistan)

20.039 Contribution of grain amaranth and traditional healthcare systems in intervening jointly against infectious and non-communicable diseases to control HIV
L. K. Ndonga
Nairobi (Kenya)

20.040 Risk Factors for non-communicable diseases (NCDs) among prison population in Punjab, Pakistan, 2012
A. Pervaiz
Islamabad (Pakistan)

20.041 Interactive Identification Key for Female Mosquitoes (Diptera: Culicidae) of Euro-Mediterranean and Black Sea Regions
F. Gunay[1], **M. Picard**[2], V. Robert[2]
[1]Ankara (Turkey), [2]Montpellier (France)

New Approaches to Outbreak Surveillance and Monitoring

20.042 Novel rapid approach for molecular diagnosis of multidrug-resistant tuberculosis using real time PCR assay combined with high-resolution melt curve analysis
U. Anukool[1], C. S. Tharinjaroen[1], P. Phunpae[1], S. Saikaew[1], K. Tragoolpua[1], B. Butr-Indr[1], S. Intorasoot[1], V. Sutachai[1], A. Chaiprasert[2]
[1]Chiang Mai (Thailand), [2]Bangkok (Thailand)

20.043 Implementation of GastroBusters in Toronto: Canada's first online reporting system for food-borne illness
A. A. A. Arthur, S. Ota, E. Gournis
Toronto (Canada)

20.044 Harvesting real time and historical disease outbreak data from the ProMED-Mail database: Pitfalls and proposed solutions
C. E. B. Carslake
Bristol (United Kingdom)

20.045 Pandemic propagation—Pyschosocial behavior analysis with media analytics
W. L. Chadsey[1], T. Stephens[2], J. Walsh[3]
[1]Reston, Virginia (USA), [2]Arlington, Virginia (USA), [3]Nashville, Tennessee (USA)

20.046 Application of geospatial data to guide source detection following foodborne outbreaks in Singapore
J. Chua, M. Chen
Singapore (Singapore)

20.047 Global monitoring of drivers of animal disease outbreaks to inform local risks of disease introduction
D. Cole, S. Wainwright
Fort Collins, CO (USA)

20.048 A multisectoral approach to identify innovative solutions to strengthen capacity building for pandemic risk management
J. Duggan, C. Hayes, M. Jilani, J. Wurmel, M. Connolly
Galway (Ireland)

20.049 Employing survivors of Ebola virus disease (EVD) as a novel system to support community-based surveillance in an Ebola hotspot within Sierra Leone
J. Garland[1], G. Warren[2], M. Drasher[3], K. Dierberg[2], J. Gottesfeld[2], K. Hann[2], A. Stewart[4], A. Kanu[3], J. Bangura[3], S. Bangura[3]
[1]Los Angeles (USA), [2]Freetown (Sierra Leone), [3]Port Loko (Sierra Leone), [4]Kono (Sierra Leone)

20.050 Using social media for better guesstimation of size of a chikungunya outbreak: A mixed methods study
M. Grover, **N. Bhatnagar**
New Delhi (India))

20.051 Theoretical practical and ethical implications of future-based approaches to post-disaster disease
C. C. Hammer
Tübingen (Germany)

20.052 Evaluating performance of natural language processing for detection of symptoms presence and duration within primary care setting in Singapore
A. Hardjojo, A. Gunachandran, L. Pang, M. R. B. Abdullah, W. Wah, S. H. Teo, M. Chen, F. P. G. Wong, J. S. K. Phang
Singapore (Singapore)

20.053 Community event-based surveillance (CEBS) for Ebola virus disease (EVD) in Sierra Leone: Alert demographics by sex and age, February 2015–June 2016
E. M. Higgins, E. Polich, M. Sahu, S. Mearns
Freetown (Sierra Leone)

20.054 The zoonoses data collection in Italy: An expert system for data quality management and improvement
S. Iannetti, D. Cioci, P. Colangeli, M. G. Falcone
Teramo (Italy)

20.055 Validation of event mobile application (EMA) for animal disease surveillance and monitoring in Uganda. milestones and challenges
N. G. Kiggundu
Kampala (Uganda)

20.056 Effectiveness of mobile phone short message service (SMS) as a post-training approach in Uganda
R. N. Kikonyogo, L. Namara, J. W. Arinaitwe
Kampala (Uganda)

20.057 Community-based cholera surveillance by volunteers with mobile phones: A case study from Western Area, Haiti
A. Kongelf[1], T. Tingberg[1], A. L. McClelland[2], M. C. Jean[3], B. D. Dalziel[4]
[1]Oslo (Norway), [2]Geneva (Switzerland), [3]Port-au-Prince (Haiti), [4]Oregon (USA)

20.058 A qualitative study of volunteer experiences with a mobile community event- based surveillance (CEBS) system in Sierra Leone
T. M. Larsen[1], C. Brux Mburu[1], A. L. McClelland[2], T. Tingberg[1], **A. Kongelf**[1], F. Sannoh[3], A. Ali Madar[1]
[1]Oslo (Norway), [2]Geneva (Switzerland), [3]Freetown (Sierra Leone)

20.059 Missed opportunities for Yellow Fever surveillance in Uganda, July 2015–May 2016
H. Kyobe Bosa[1], R. Majwala[2], L. Nakiire[2], A. R. Ario[2], N. Kiwanuka[2], H. Kibuuka[2], R. G. Downing[1], J. J. Lutwama[1]
[1]Entebbe (Uganda), [2]Kampala (Uganda)

20.060 A real-time surveillance dashboard for monitoring viral phenotype from sequence
E. J. Ma, J. Runstadler
Cambridge (USA)

20.061 A surveillance system of diseases of small companion animals in the Veneto Region (Italy)
M. Martini[1], R. Busetto[1], R. Cassini[1], M. Drigo[1], C. Guglielmini[1], I. Masiero[2], M. L. Menandro[1], D. Pasotto[1], M. Fenati[1]
[1]Legnaro (Italy), [2]Padua (Italy)

20.062 Comparative Evaluation of data collection tools of District Health Information System 2 and District vaccine Data Management tools, Enugu State, Nigeria 2015
R. N. Nnaji[1], J. Adegoke[1], A. Anagor[2], P. Ossai[2], O. Ajumobi[1], P. Nguku[1]
[1]Abuja (Nigeria), [2]Enugu (Nigeria)

20.063 TanRabad: Software suite for dengue epidemic surveillance and control
N. Sahavechaphan[1], M. Rattananen[1], P. Panichphol[1], W. Wongwilai[1], S. Iamsiri[2], P. Sadakorn[3]
[1]Pathumthani (Thailand), [2]Bangkok (Thailand), [3]Nonthaburi (Thailand)

20.064 Sensitivity of the Ov16 serology in the elimination of onchocerciasis; a preliminary report of 10 years of treatment with ivermectin in Ogun State, Nigeria
O. Surakat, F. Ajayi, **S. O. H. Sam-Wobo**
Abeokuta (Nigeria)

20.065 Use of genome wide gene-by-gene comparison for *Salmonella enterica* outbreak investigation in Austria
S. Schill[1], S. Lepuschitz[1], M. Blaschitz[1], S. Maritschnik[1], D. Schmid[1], F. Allerberger[1], C. Kornschober[2], W. Ruppitsch[1]
[1]Vienna (Austria), [2]Graz (Austria)

20.066 Canadian strategies for systematically assessing risks posed by emerging infectious diseases
M. E. St-Laurent, G. Thomas-Reilly, A. Demarsh, S. Gadient
Ottawa (Canada)

20.067 Infectious disease surveillance in the US Department of Defense European Region
J. A. Steele, K. Allen
Stuttgart (Germany)

20.068 Google dengue trends: An indicator of epidemic behavior. The Venezuelan case
R. Strauss[1], J. S. Castro[2], R. Reintjes[1], J. Torres[2], J. M. Olivares[2], M. Herrera[2], G. Provenza[2]
[1]Hamburg (Germany), [2]Caracas (Venezuela)

20.069 Knowledge and practices regarding rabies in urban and rural communities in Thailand and Cambodia
S. Thongyuan, T. Pinyopummintr, P. Sithisarn, C. Sinthusing, K. Phetudomsinsuk, A. Sangmalee, M. Sukmak, W. Phimpraphai, A. Suprasert
Bangkok (Thailand)

20.070 ICARES: Two years experience with a promising early warning tool for infectious disease clusters
G. Groeneveld[1], A. Dalhuijsen[1], C. Kara-Zaïtri[2], B. Hamilton[3], M. W. de Waal[1], S. Marbus[4], J. T. van Dissel[1], **J. E. van Steenbergen**[1]
[1]Leiden (Netherlands), [2]Bradford (United Kingdom), [3]Shipley (United Kingdom), [4]Bilthoven (Netherlands)

20.071 Performance of community volunteers in human and animal diseases surveillance by using mobile application
T. Yano, P. Trakarnsirinon, B. Kaewpinta, W. Chaisowwong, S. Pattamakaew, L. Srikitjakarn
Chiang Mai (Thailand)

New Pathogen Discovery

20.072 Characterization of a Culex theileri flavivirus variant in field-collected mosquitoes from Turkey
K. Ergunay[1], N. Litzba[2], **A. Brinkmann**[2], F. Gunay[1], S. Kar[3], K. Oter[4], S. Orsten[1], B. Alten[1], A. Nitsche[2], Y.-M. Linton[5]
[1]Ankara (Turkey), [2]Berlin (Germany), [3]Tekirdağ (Turkey), [4]Istanbul (Turkey), [5]Washington, DC (USA)

20.073 A metagenomic survey reveals rhabdo and negevvirus sequences in mosquito pools from Turkey
K. Ergunay[1], A. Brinkmann[2], **F. Gunay**[1], S. Kar[3], K. Oter[4], S. Orsten[1], Y. Sarıkaya[1], B. Alten[1], A. Nitsche[2], Y.-M. Linton[5]
[1]Ankara (Turkey), [2]Berlin (Germany), [3]Tekirdağ (Turkey), [4]Istanbul (Turkey), [5]Washington, DC (USA)

20.074 High diversity of replication-associated protein encoding circular viruses in guano samples of European bats
G. Kemenesi[1], B. Zana[1], K. Kurucz[1], A. Vlaschenko[2], K. Kravchenko[2], I. Budinski[3], F. Szodoray[4], T. Görföl[5], K. Bányai[5], F. Jakab[1]
[1]Pécs (Hungary), [2]Lenoye (Ukraine), [3]Belgrade (Serbia), [4]Satu Mare (Romania), [5]Budapest (Hungary)

New, Emerging and Neglected Zoonotic Diseases

20.075 Assessing risk of transmission of dengue and yellow fever viruses in major Kenyan cities by estimation of Stegomyia Indices
S. B. Agha[1], D. Tchouassi[1], J. Lutomiah[2], R. Sang[2]
[1]Nairobi (Kenya), [2]Nairobi (Kenya)

20.076 Zika virus: Improve diagnostic strategies
A. Akaddar
Strasbourg (France)

20.077 The Zika outbreak: An overview of suspected Zika cases presenting at a tertiary hospital in Singapore
Y. A. Hou, R. Sridhar, H. C. Chan, L. Chiu, C. K. Lee, P. A. Tambyah, D. A. Fisher, **N. Bagdasarian**
Singapore (Singapore)

20.078 Ebolavirus pseudotypes as antigen surrogates for serological studies
E. Bentley[1], G. Mattiuzzo[2], R. Wash[3], S. Binter[3], M. Friedrich[3], D. Goulding[3], P. Kellam[3], M. Page[2], E. Wright[1]
[1]London (United Kingdom), [2]Potters Bar (United Kingdom), [3]Cambridge (United Kingdom)

20.079 Septic arthritis caused by *Streptococcus suis*—A case report
F. F. C. Ceia, A. Couto, M. J. Ferreira Pinto, P. Palma, M. Seara, P. Andrade, A. Sarmento
Porto (Portugal)

20.080 A fatal malaria caused by *Plasmodium knowlesi* infection in a healthy man, Betong, Yala, Thailand April, 2016
J. Chantaramongkol[1], R. Buathong[2]
[1]Yala (Thailand), [2]Nonthaburi (Thailand)

20.081 Prevalence of *Bartonella henselae* infection and its diagnosis in diverse clinical conditions in a tertiary care hospital in North India
R. Chaudhry[1], P. Kokkayil[2], A. Gosh[1], T. Bahadur[1], K. Kant[1], T. Sagar[1], S. Kabra[1], R. Lodha[1], A. Dey[1], V. Menon[1]
[1]Delhi (India), [2]Kerala (India)

20.082 Breaking the Ebola virus disease chain of transmission; the role of Montserrado County sectorial surveillance system Liberia
C. C. Dan-Nwafor[1], P. Nguku[1], B. Adebobola[1], S. Duwor[2]
[1]Abuja (Nigeria), [2]Monrovia (Liberia)

20.083 Middle East Respiratory Syndrome Coronavirus (MERS-CoV): A systematic literature review
P. Dawson, S. Morse
New York, NY (USA)

20.084 Mammalian haploid genetic screen to identify host factors essential for Rift Valley fever virus
S. Devignot[1], A. Leibbrandt[2], T. Burkhard[2], U. Elling[2], J. Penninger[2], F. Weber[1]
[1]Giessen (Germany), [2]Vienna (Austria)

20.085 Sero-prevalence of Crimean Congo Haemorrhagic fever (CCHF) in small ruminants of Pakistan
U. Farooq[1], H. Irshad[1], K. Naeem[1], M. Jahangir[1], B. Afrough[2], R. Hewson[2], S. Morikawa[3], E. Neumann[4]
[1]Islamabad, ICT (Pakistan), [2]Salisbury (United Kingdom), [3]Tokyo (Japan), [4]Palmerston North (New Zealand)

20.086 Using the incidence decay and exponential adjustment (IDEA) model to understand transmission dynamics of MERS-CoV in a camel herd
E. G. Gardner[1], M. Ali[2], G. Kayali[3], D. Kelton[1], A. Greer[1]
[1]Guelph (Canada), [2]Giza (Egypt), [3]Baabda (Lebanon)

20.087 Setting research priorities to control zoonoses in smallholder dairy farms of periurban India
M. Kakkar[1], P. Chatterjee[2]
[1]New Delhi (India), [2]Gurgaon (India)

20.088 Evidence of interspecies transmission of rotavirus G4P[6] strain in Manado, Indonesia
A. F. C. Kalesaran[1], A. Thongprachum[2], D. H. C. Pangemanan[1], S. Takanashi[2], S. Okitsu[2], J. Tuda[1], M. Mizuguchi[2], S. M. Warouw[1], H. Ushijima[2]
[1]Manado (Indonesia), [2]Tokyo (Japan)

20.089 Absence of MERS-CoV in domestic camels, Republic of Korea, 2015
H.-J. Kim, J.-S. Choi, H.-M. Nam, H.-E. Kang
Kimcheon (Korea)

20.090 Ocular manifestation of Mediterranean spotted fever in Bulgaria
R. Komitova, M. Atanasova, I. Baltadjiev, N. Tzenova
Plovdiv (Bulgaria)

20.091 IL-28B polymorphisms differently influence IFN system induction, antiviral activity and inflammatory response by african and asian ZIKV strains
L. Bordi, **E. Lalle**, F. Colavita, C. Caglioti, S. Quartu, M. Biava, C. Agrati, M. R. Capobianchi, G. Ippolito, C. Castilletti
Rome (Italy)

20.092 Serological survey of hantavirus infection among rodents in Hungary
M. Madai[1], V. Németh[1], M. Oldal[1], G. Horváth[1], R. Herczeg[1], R. Pintér[1], A. Kutas[1], B. Dallos[1], K. Bányai[2], F. Jakab[1]
[1]Pécs (Hungary), [2]Budapest (Hungary)

20.093 Serological survey of leptospirosis in equids, dogs, and domestic ruminants from Senegal
C. Roqueplo[1], J.-P. Demoncheaux[2], O. Mediannikov[3], M. Diarra[2], R. Tine[2], C. Pasqualini[2], **J.-L. Marié**[1], B. Davoust[3], A. Kodjo[4]
[1]Toulon (France), [2]Dakar (Senegal), [3]Marseille (France), [4]Marcy l'Etoile (France)

20.094 *Vaccinia* virus in feces of wild rodents from São Paulo State, Brazil
J. Megid[1], M. G. Peres[2], T. Bachiega[2], C. M. Appolinario[2], A. F. Vicente[2], B. L. D. Ribeiro[2], C. R. S. Fonseca[2], J. S. Abrahão[3], F. Ferreira[4]
[1]Botucatu (Brazil), [2]Botucatu (Brazil), [3]Belo Horizonte (Brazil), [4]São Paulo (Brazil)

20.095 Investigation and response to Rift Valley Fever and Yellow Fever outbreaks in humans in Uganda, 2016
I. Nabukenya, S. Ssendagire, B. Lubwama, M. D. Aliddeki, S. Kyazze, I. Makumbi, O. Namusisi
Kampala (Uganda)

20.096 Characterisation of the increasing numbers of autochthonous hepatitis E infections in England and Wales 2010–2015
C. C. Oeser, D. Morgan, S. Ijaz, B. Said
London (United Kingdom)

20.097 Congenital Zika Syndrome: Establishing obstetric and paediatric surveillance in the UK and ROI
C. C. Oeser[1], P. Heath[1], K. Johnson[2], A. Khalil[1], R. Lynn[1], M. Knight[3], S. Ladhani[1], D. Morgan[1], P. O'Brien[1], R. Pebody[1]
[1]London (United Kingdom), [2]Leeds (United Kingdom), [3]Oxford (United Kingdom)

20.098 Screening for viral proteins of some emerging viruses in African straw-coloured fruit bats (*Eidolon helvum*) captured in Zaria, Nigeria
O. T. Olufemi[1], J. Umoh[2], A. A. Dzikwi[2], G. S. Kia[2], Y. O. Olufemi[3], T. M. Hamisu[4], T. A. Delia[2], A. O. Shaibu[2]
[1]Wukari (Nigeria), [2]Zaria (Nigeria), [3]Nottingham (United Kingdom), [4]Maiduguri, Borno (Nigeria)

20.099 Targeting Ebola virus disease glycoprotein processing via phenyl-sulphonyl-derived host furin inhibitors
O. I. Omotuyi[1], N. Oyekanmi[2]
[1]Akungba-Akoko, (Nigeria), [2]Abuja (Nigeria)

20.100 A lost world disease: Copra itch outbreak caused by *Tyrophagus longior* mite in a family at Southern Province of Thailand, June–July 2016
P. Sarathep[1], W. Phonkaew[1], S. Towkaew[1], S. Srisupan[1], B. Ekthummasathain[1], P. Raksachon[1], R. Buathong[2]
[1]Phang Nga (Thailand), [2]Nonthaburi (Thailand)

20.101 Using a One Health approach to understand risk for trichinellosis among northern Thai ethnic minorities
C. Kallayanamitra[1], P. Saenna[2], **J. A. Steele**[3], C. Richter[4], B. A. Wilcox[5], M. Potapohn[1]
[1]Chiang Mai (Thailand), [2]Khon Kaen (Thailand), [3]Stuttgart (Germany), [4]Kunming (China), [5]Bangkok (Thailand)

20.102 Epidemiological and clinical characteristics of hantavirus infections detected in three geographically close natural foci during the 2014 Croatian outbreak
T. Vilibic-Cavlek[1], V. Stevanovic[1], A. Furic[2], I. Tabain[1], L. Barbic[1]
[1]Zagreb (Croatia), [2]Ogulin (Croatia)

Outbreak Modeling

20.103 Identification of spatiotemporal patterns of African swine fever behavior in wild boar in the European Union
I. Iglesias Martin, A. Pickford , F. Montes, C. Jurado, M. J. Muñoz, J. M. Sanchez-Vizcaino, A. de la Torre
Madrid (Spain)

20.104 Effectiveness of alternative control measures for foot-and-mouth disease in swine farms in the USA estimated using simulation modeling
I. Iglesias Martin, K. VanderWaal, F. Sampedro, A. Kinsley, T. J. Goldsmith, A. Perez
St. Paul, MN (USA)

20.105 Development and parameterisation of a between-flock model to assess the utility of a risk-based surveillance scenario for the early detection of low pathogenic avian influenza
T. Saratoon, O. Tearne, M. Arnold
London (United Kingdom)

20.106 Google trend tool as a predictor of Chikungunya and Zika epidemic in a enviroment with little epidemiological data, a Venezuelan case
J. S. Castro[1], J. Torres[1], J. Oletta[1], **R. Strauss**[2]
[1]Caracas (Venezuela), [2]Hamburg (Germany)

20.107 Empirical estimation of the incubation period for hand-foot-and-mouth disease from school outbreaks
Z. Yang, Q. Zhang, W. Chiu, B. J. Cowling, E. H. Lau
Hong Kong (China)

Outbreak Response and Control

20.108 Outbreak of suspected pertussis in Kaltungo, Gombe State, Northern Nigeria, 2015: The role of sub-optimum routine immunization coverage
A. T. Abubakar[1], A. Mohammed[1], M. Dalhat[2], A. Oladimeji[1], P. Nguku[1], P. Nsubuga[1]
[1]Abuja (Nigeria), [2]Kano (Nigeria)

20.109 Evaluation of the performance of randomly amplified polymorphic DNA (RAPD) method for microbiological typing in an invasive *Serratia marcescens* NICU outbreak
R. M. Alyazidi[1], R. Hickman[2], L. M. Li[2], J. Osowicki[2], D. Goldfarb[2], P. Tilley[2], D. P. Speert[2], J. E A Zlosnik[2]
[1]Vancouver/ Jeddah-Saudi Arabia (Canada), [2]Vancouver (Canada)

20.110 Quantifying the risk of nosocomial infection within Ebola holding units: A retrospective cohort study of negative patients discharged from five Ebola holding units in Western Area, Sierra Leone
P. Arkell[1], D. Youkee[2], C. Brown[3], T. B. Kamara[3], O. Johnson[3], M. Lado[3], V. George[3], F. Koroma[3], B. E. Parker[3], P. Baker[2]
[1]Bishops Stortford (United Kingdom), [2]London (United Kingdom), [3]Freetown (Sierra Leone)

20.111 Outbreak of measles in children of a remote district of Afar region, Eastern Ethiopia
M. M. Ayele, A. Addiesse, H. Taame
Addis Ababa (Ethiopia)

20.112 Measles outbreak investigation in Darolabu district of Oromia region from Ethiopia 2014
G. G. Bulcha, A. Belachew, G. Bifa
Addis Ababa (Ethiopia)

20.113 A large combined Norovirus GI.1 and GII.17 gastroenteritis outbreak in a college—Jinan City, China, June 2015
L. L. Cui, X. Geng, J. Zhou, C. Wang, J. Zhang
Jinan (China)

20.114 Factors associated with acquisition of glycopeptide-resistant enterococci during a single-strain outbreak
S. Deboscker[1], P. Schneider[1], F. Severac[1], J. Gaudart[2], T. Lavigne[1], N. Meyer[1]
[1]Strasbourg (France), [2]Marseilles (France)

20.115 Outbreak Investigation of measles in Swati Mohalla Landhi, April 2015
S. Fareeha, M. A. Baig, R. J. Asghar
Islamabad (Pakistan)

20.116 Ciguatera outbreaks in Germany caused by imported tropical fish
M. Friedemann
Berlin (Germany)

20.117 Fourth dengue fever outbreak in Ethiopia, July 2015: Investigation of risk factors
D. S. Gemechu, A. Bekele, A. Alemu, D. Belay, D.Y. Worku
Addis Ababa (Ethiopia)

20.118 The challenges of mounting a successful response to a Lassa Fever outbreak in a post-EVD resource limited setting, Liberia 2016
E. L. Hamblion[1], P. Raftery[1], G. S. Williams[1], E. Dweh[2], A. Nyan[1], L. Soro[1], A. Gasasira[1], E. Musa[1], T. Nyenswah[1], T. Nagbe[1]
[1]Monrovia (Liberia), [2]Gbanga (Liberia)

20.119 Personal protective equipment for infectious diseases preparedness: A human factors analysis
T. Herlihey, S. Gelmi, C. Flewwelling, T. Hall, C. Banez, P. Morita, P. Beverley, J. Cafazzo, **S. Hota**
Toronto (Canada)

20.120 Outbreak investigation of Dengue fever in cases reporting to a tertiary care hospital in District Rawalpindi, Pakistan-September 2015
N. Javed, Z. Hussain, M. A. Baig, R. J. Asghar
Islamabad (Pakistan)

20.121 Differential serological and molecular arbovirus testing of Yellow Fever suspected blood specimens in Uganda 2016
J. T. Kayiwa
Entebbe (Uganda)

20.122 Ongoing vaccine-derived poliovirus type 1 (cVDPV1) outbreak, Lao PDR 2015
B. Khamphaphongphane[1], M. Phengxay[1], B. Sengkeopraseuth, A. Khamsing, S. Houadthongkham, C. Soulaphy, B. Phommasak, D. Luo, P. Vongphrachanh
Vientiane (Lao)

20.123 Outbreak of Crimean Congo Hemorrhagic Fever in a butcher family at Havaillian Abbottabad Pakistan, September 2014
M. A. Khan
Islamabad (Pakistan)

20.124 Preparedness and Response in Compliance with International Health Regulation (2005) Requirements in Sudan 2015, Following the Ebola Epidemic 2014
H. S. E. Khogali[1], D. Ghorashi[2], D. Abdelgadir[2]
[1]Doha (Qatar), [2]Khartoum (Sudan)

20.125 Assessment of core activities and supportive functions for the diseases surveillance system in Katsina State, Nigeria, 2009–2013
A. Lawal[1], M. B. Sufiyan[1], A. Abubakar[2], A. A. Oorukooba[1], S. S. Yahaya[3], A. Musa[1], K. Sabitu[1]
[1]Zaria (Nigeria), [2]Kaduna (Nigeria), [3]Katsina (Nigeria)

20.126 Assessment of preparedness towards Ebola Virus Diseases: Hospitals in Addis Ababa, Ethiopia January, 2015
W. A. Lemma, G. Baharu, A. Adissie, A. Bekele, T. Bogale, Z. Haylemariam
Addis Ababa (Ethiopia)

20.127 Factors associated with cerebrospinal meningitis outbreak in Kebbi State, Nigeria, February 2015
I. G. Leo-Nnadi[1], C. Ega[1], S. Gidado[1], E. Waziri[1], S. Y. Badung[1], P. Nguku[1]
[1]Abuja (Nigeria), [2]Birnin Kebbi (Nigeria)

20.128 Cholera outbreak in Gajala community, Birnin Kudu, Jigawa state, Nigeria September 2015
R. N. nnaji[1], B. Useni[2], R. Usman[1], U. Osigwe[3], M. Buba[1], M. Sarki[1], F. Saleh[1], O. Ajumobi[1], P. Nguku[1], A. Oladimeji[1]
[1]Abuja (Nigeria), [2]Jigawa (Nigeria), [3]Lagos (Nigeria)

20.129 The cost of responding to a waterborne cholera outbreak in a village in Uganda compared to a simple hypothetical intervention
E. A. Okullo[1], B.-P. Zhu[2]
Kampala (Uganda)

20.130 ISARIC—enhancing the clinical research response to epidemics
R. Pardinaz-Solis, K.-S. Longuere, S. Moore, C. McMullen, **G. Carson**, P. Horby
Oxford (United Kingdom)

20.131 Investigation of a typhoid fever outbreak, City of Johannesburg, South Africa, January–February 2016
N. H. Peni[1], C. Reddy[2], M. Kerrigan[2], A. Smith[2], K. Keddy[2]
[1]Pretoria (South Africa), [2]Johannesburg (South Africa)

20.132 Investigation of a suspected typhoid fever outbreak, City of Johannesburg, South Africa, January–February 2016
N. H. Peni[1], C. Reddy[2], K. McCathy[2], K. Karen[2], A. Smith[2]
[1]Pretoria (South Africa), [2]Johannesburg (South Africa),

20.133 Twenty years surveillance of the re-emerging Mediterranean spotted fever in Bulgaria
N. Popivanova, I. G. Baltadzhiev
Plovdiv (Bulgaria)

20.134 CCHF Outbreak Investigation Baluchistan 2015
A. Saeed
Quetta(Pakistan)

20.135 Outbreak investigation of cutaneous Leishmaniasis in district Nowshera Pakistan from January to April 2014
M. Saleem
Peshawar (Pakistan)

20.136 Pertussis outbreak—Saravane, Lao PDR February 2013,
B. Sengkeopraseuth
Vientiane (Lao)

20.137 Measles outbreak—Northern of Lao PDR January 2013
B. Sengkeopraseuth
Vientiane (Lao)

20.138 Use of the Information System SMS Alert for the management of risk communication in animal epidemic emergencies -African Swine Fever (A.S.F.)
F. Sgarangella, D. Marongiu, S. Masala, V. Floris, G. Bitti, P. Desini
Sassari (Italy)

20.139 Mixed species legionellosis outbreak linked to industrial cooling towers contaminated with multiple *Legionella* species, New Zealand, August–November 2015
C. Thornley[1], D. Harte[2], R. Weir[3], L. Allen[3], P. Wood[3]
[1]Lower Hutt (New Zealand), [2]Porirua (New Zealand), [3]Palmerston North (New Zealand)

20.140 Laboratory response to Middle East Respiratory Syndrome outbreak in Korea, 2015
J.-S. Yang, H.-D. Jung, S. Park, J.-G. Nam, S. S. Kim
CheongJu (Korea)

Public Communication of Outbreaks and Emerging Diseases

20.141 'Why didn't you see it coming?': Surveillance by and in the media—journalistic research on outbreak detection taking the example of Ebola Virus Disease in Uganda and West Africa
F. Badenschier
Cologne (Germany)

20.142 Evaluation of ProMED-mail global surveillance capability
N. A. Breit[1], T. Allen[2], B. Arnold[3], A. Huff[2], L. Madoff[4], M. Pollack[2]
[1]Kirkland, Washington (USA), [2]New York, NY (USA), [3]Malone, NY (USA), [4]Brookline, MA (USA)

20.143 Active syndromic surveillance program of arboviruses in Rio de Janeiro, Brazil
E. C. Mesquita, J. Cerbino-Neto, G. Viana Ramos, M. Varela, V. Parreira, T. Souza, A. Vizzoni, P. Bozza, F. Bozza
Rio de Janeiro (Brazil)

20.144 Lethality in newborn with microcephaly due to maternal Zika virus infection in Rio Grande do Norte State, Brazil: A cross sectional-study
N. M. N. Nogueira Mendes Neto[1], I. T. Queiroz[2], J. T. da Silva Maia[2], D. D. Rolim[2]
[1]Natal, RN (Brazil), [2]Natal, RN (Brazil)

20.145 Authoritarian governance and the suppression of infectious disease reporting
B. Oppenheim
San Francisco, CA (USA)

20.146 The third *Clostridium difficile* NAP/BI/027 strain outbreak in Mexico
J. C. Rodriguez, M. Martínez, G. Salazar, E. Rojano, G. Oseguera, R. Valdes, R. Figueroa, J. Ramírez, A. Rodríguez
Mexico City (Mexico)

20.147 Simple online tools to visualize complex laboratory-derived surveillance outcomes—The HIV continuum experience
T. Sanchez, P. S. Sullivan
Atlanta, GA (USA)

20.148 The first case exploring the health management of dogs owned by a man suffering from Ebola (EVD) in Italy
F. Sgarangella, A. Sussarellu, M. S. Zedda, F. Delogu, G. Bitti, S. Masala, D. Marongiu, R. Cocco, F. Dettori, P. Desini
Sassari, (Italy)

20.149 AIDSVu.org: Communicating about the US HIV epidemic to diverse stakeholders
P. S. Sullivan, T. Sanchez
Atlanta, GA (USA)

20.150 Impact of a protracted Q fever outbreak in South West Germany 2016 on the supply of blood products
C. Wagner-Wiening[1], S. Körper[2], A. Wiedenmann[3], A. Corea[3], S. Fischer[1], C. Marquardt[3], G. Pfaff[1], W. Kontner[3]
[1]Stuttgart (Germany), [2]Ulm (Germany), [3]Esslingen (Germany)

20.151 Epidemiology and etiology of suspected central nervous system infections in Singapore
S. K. S. Wong, K. Tan, T. L. D. Soon , H. Shafi, M. Chan, S. T. Ooi , L. Wijaya
Singapore (Singapore)

Sociopolitical Factors in Disease Emergence

20.152 Health beliefs and patient perspectives of febrile illness in Kilombero, Tanzania
C. A. Hercik[1], L. Cosmas[2], O. Mogeni[2], W. Kohi[3], S. Mfinanga[3], C. Loffredo[1], J. Montgomery[2]
[1]Washington, DC (USA), [2]Nairobi (Kenya), [3]Dar es Salaam (Tanzania)

20.153 Regional differences in healthcare utilization of patients with scrub typhus in South Korea, using national health insurance claim data
G. Park, S. Yi, H. Lee
Gyeonggi (Korea)

20.154 The prevelance of typhoid fever from different regions of Karachi
S. A. Qasmi, S. Pirzada
Karachi, Sindh (Pakistan)

20.155 Motivational aspects are important in the improvement of biosecurity
L. Sahlström, J. Kyyrö, T. Lyytikäinen
Helsinki (Finland)

Vaccines and Emergence of Vaccine Preventable Diseases

20.156 Detection of ambiguous vaccine-derived poliovirus type 2 in T'boli Sultan Kudarat, Philippines
L. N. G. Apostol[1], A. I. Tandoc[1], L. Reyes[1], M. M. A. Jiao[1], M. A.-L. Valencia[1], K. A. Cruz[1], R. Aquino[1], V. Roque[2], A. Salonga[2], M. Castro[2]
[1]Muntinlupa City (Philippines), [2]Manila (Philippines)

20.157 Epidemiological surveillance of acute flaccid paralysis in the territory of the Republic of Armenia for 2003–2015
A. Badalyan, H. Hovhannisyan
Yerevan, Yerevan (Armenia)

20.158 The successful establishment of regular national vaccination conferences and a national vaccination steering committee in Germany
C. Brenninkmeyer[1], M.-S. Ludwig[1], S. Speiser[1], U. Nennstiel-Ratzel[2], G. Hölscher[2], R. Fischer[3], C. Klinc[3], W. Hierl[3], F. Feil[4], B. Liebl[2]
[1]Erlangen (Germany), [2]Oberschleißheim (Germany), [3]Munich (Germany), [4]Hanover (Germany)

20.159 Two third of under five year measles cases were not vaccinated against measles, Iraq, 2013-2015
A. Chitheer[1], Y. Yunis[2], A. Nawar[2], F. Lami[2]
[1]Missan (Iraq), [2]Baghdad (Iraq))

20.160 What do Lebanese women know about cervical cancer and human papillomavirus? A report on awareness levels in urban communities
J. E. Choucair
Beirut (Lebanon)

20.161 Private sector vaccine coverage estimates in India: Evidence from vaccine utilization data through innovative analytics
H. H. Farooqui[1], S. Zodpey[2]
[1]Gurgaon, Haryana (India), [2]New Delhi (India)

Session 20

Poster Presentations II

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Vaccines and Emergence of Vaccine Preventable Diseases *(continued)*

20.162 Elucidating structure-function polymorphism of p7 gene of hepatitis C Virus
N. A. Hussain
Karachi (Pakistan)

20.163 Predictors of recurrent fast breathing in children under five years of age in a low income community in southern Pakistan: A nested case control study
S. Kerai[1], **F. Aziz**[1], I. Nisar[1], N. Brown[2], F. Jehan[1]
[1]Karachi (Pakistan), [2]Salisbury (United Kingdom)

20.164 Virological evaluation and clinical impact of field vaccination against lumpy skin disease in cattle
P.-D. Katsoulos, C. I. Dovas, S. C. Chaintoutis, Z. Polizopoulou, O. Papadopoulos, H. Karatzias, C. Boscos
Thessaloniki (Greece)

20.165 Major mumps outbreak in the South Bohemian Region, a question for the buster vaccination
K. Kotrbova, J. Lunackova
Ceske Budejovice (Czech Republic)

20.166 Evaluation of an influenza vaccination campaign among pregnant women in two provinces in South Africa, 2015
S. G. P. Lengana[1], M. McMorrow[2], A. Tshangela[2], S. Meiring[2], M. Nunes[2], C. Cutland[2], R. Itzikowitz[3], W. Isaacs[3], S. Madhi[1], C. Cohen[1]
[1]Johannesburg (South Africa), [2]Atlanta, GA (USA), [3]Cape Town (South Africa)

20.167 The determinants of influenza vaccination effectiveness in adults aged 65 years and older: A systematic review
W. W. Lim, B. J. Cowling, M. C. W. Chan
Hong Kong (China)

20.168 Reporting patterns of adverse events following immunization in Albanian children during 2008–2015: A retrospective analysis of adverse events database
I. Mehmeti, S. Bino, E. Nelaj
Tirana (Albania)

20.169 High prevalence of serotype 3 in pneumococcal isolates causing complicated pneumonia and empyema in Portugal (2010–2015)
C. Silva-Costa, S. Aguiar, M. Pinho, A. Friães, M. Ramirez, **J. Melo-Cristino**, the Portuguese Group for the Study of Streptococcal Infections, the Portuguese Study Group of Invasive Pneumococcal Disease of the Paediatric Infectious Disease Society
Lisbon (Portugal)

20.170 Coverage of poliomyelitis vaccination in Lagos Mainland Local Government Area Lagos State, Nigeria
F. F. Osundina[1], O. Ajumobi[2], A. Oladimeji[2], I. Abdus-Salam[3], A. T. Olayinka[4], P. Nguku[2]
[1]Abuja (Nigeria), [2]Abuja (Nigeria), [3]Lagos (Nigeria), [4]Zaria (Nigeria)

20.171 Adverse effects following immunization of pneumococal vaccine in Nepal
B. P. Sapkota[1], K. B. GC[2]
Kathmandu (Nepal)

20.172 Clinical characterizations of children with bacterial meningitis (BM) in the Republic of Kazakhstan
A. Seidullayeva[1], G. Zhaxylykova[1], S. Kenzhebayeva[1], B. Turdalina[1], G. Volkova[1], G. Nurtazina[1], T. Kostrovskaya[1], D. Greenberg[2], A. Kushugulova[1], D. Bayesheva[1]
[1]Astana (Kazakhstan), [2]Beer-Sheva (Israel)

20.173 Epitiope based DNA vaccine design using epitopes predicted from Zika virus polyprotein
P. S. Slathia, P. Sharma
Jammu, (India)

20.174 Evaluation of monoclonal antibodies against pfMSP10 for the prospective use on in vitro growth inhibition assays of peruvian P. falciparum isolates
E. Villasis[1], J. Bendezu[1], K. Garro[1], O. Nolazco[1], K. Torres[1], B. Infante[1], D. Gamboa[1], J. Vinetz[2]
[1]Lima (Peru), [2]San Diego, CA (USA)

20.175 Autogenous vaccine field trial for epizootic hemorrhagic disease virus and bluetongue virus does not result in high titer to homologous virus serotypes
S. M. Wisely, K. Sayler
Gainesville, FL (USA)

20.176 Protection against dengue virus infection in mice by immunization with modified nonstructural protein 1 wing domain peptide
T. M. Yeh
Tainan (Taiwan, R.O.C.)

Vectorborne Diseases

20.177 Application of Real Time PCR technology to determine dengue virus serotypes in routine clinical samples
J. I. Abeynayake[1], S. Welmillage[1], J. Waggoner[2], B. Pinsky[2], M. Hettigoda[1], N. Wickramasinghe[1]
[1]Colombo (Sri Lanka), [2]Califonia (USA)

20.178 Exploiting Nigerian lichens biodiversity for alternative panacea to global malaria endemicity
O. E. Afieroho[1], R. W. Krause[2], X. Siwe Noundou[3], M. Isaacs[3], K. A. Abo[3]
[1]Port Harcourt (Nigeria), [2]Grahamstown (South Africa), [3]Grahamstown (South Africa)

20.179 Spatial clustering of malaria cases using active and passive case surveillance in a highland area in Kenya
Y. A. Afrane[1], A. Githeko[2], G. Zhou[3], G. Yan[3]
[1]Accra (Ghana), [2]Kisumu (Kenya), [3]Irvine, CA (USA)

20.180 *Coxiella burnetii* in companion animals and ticks: Serological and molecular screening
S. Anastacio[1], S. Sousa[1], M. Almeida[1], H. Vilhena[1], K. Sidi-Boumedine[2], G. J. da Silva[1]
[1]Coimbra (Portugal), [2]Sophia Antipolis (France)

20.181 The changing patterns of dengue and malarial infections—study from a Hospital in Mumbai India
A. Barua, M. E. Yeolekar
Mumbai (India)

20.182 West Nile virus neuroinvasive disease: The first confirmed case in Bulgaria
M. Baymakova[1], I. Trifonova[1], E. Panayotova[1], S. Dakova[1], M. Pacenti[2], L. Barzon[2], E. Lavezzo[2], K. Ramshev[1], K. Plochev[1], I. Christova[1]
[1]Sofia (Bulgaria), [2]Padua (Italy)

20.183 Severe clinical forms of Mediterranean Spotted Fever: A case series from an endemic area in Bulgaria
M. Baymakova[1], L. Pekova[2], K. Plochev[1], P. Parousheva[2]
[1]Sofia (Bulgaria), [2]Stara Zagora (Bulgaria)

20.184 One Health approach gap analysis of leishmaniasis detection, prevention, and response in the Republic of Albania
S. Bino[1], A. Vasili[1], T. Myrseli[1], E. Dikolli[1], K. Mersini[1], L. Alla[1], J. Sulo[1], J. Crilly[1], K. Yotebieng[2], A. M. Bersani[3]
[1]Tirana (Albania), [2]Columbus, OH (USA), [3]Lyon (France)

20.185 Gap analysis of leishmaniasis detection, prevention, and response lessons learned for vector-borne diseases in Albania, Jordan, and Pakistan
S. Bino[1], S. A. Sheikh Ali[2], S. M. Mursalin[3], **J. Crilly**[1], K. Yotebieng[4], A. M. Bersani[5]
[1]Tirana (Albania), [2]Amman (Jordan), [3]Isalamabad (Pakistan), [4]Columbus, OH (USA), [5]Lyon (France)

20.186 Assessment of the anti-feeding and insecticidal effects of the combination of dinotefuran, permethrin and pyriproxyfen (Vectra® 3D) against Triatoma infestans on rats
D. Tahir[1], **B. Davoust**[1], M. Varloud[2], J.-M. Berenger[1], D. Raoult[1], L. Almeras[1], P. Parola[1]
[1]Marseille (France), [2]Libourne (France)

20.187 Molecular biology research regarding lyophilized *Francisella tularensis* revitalized after 40 years
G. Dumitrescu, D. Popescu, L. Ionescu, M. Necsulescu, M. R. Gurau, V. S. Purcarea Ciulacu, S. Bicheru, A. Vladimirescu
Bucharest (Romania)

20.188 Environmental barrier in the fight against malaria in Nigeria
L. O. Egwari, F. Babalola, F. Faparusi
[1]Ota (Nigeria)

20.189 MediLabSecure: A virology and entomology laboratories network for a One Health approach of vector-borne and emerging viruses in the Mediterranean and Black Sea regions
L. Gaayeb[1], **C. Escadafal**[1], E. Perez-Ramirez[2], M. Picard[3], F. Riccardo[4], M. Dente[4], V. Robert[3], M. A. Jimenez-Clavero[2], J.-C. Manuguerra[1], K. Victoir[1]
[1]Paris (France), [2]Valdeolmos (Spain), [3]Montpellier (France), [4]Rome (Italy)

20.190 Serological evidence of Chikungunya virus (CHIKV) in Mozambique: Is CHIKV endemic in Mozambique?
E. S. Gudo
Maputo (Mozambique)

20.191 Arboviral encephalitis in Costa Rican horses: 2009–2016
C. Jiménez[1], M. Romero[1], M. Piche[1], M. Baldi[2], A. Alfaro[1], A. Chaves[1], J. Morales[1], B. León[1], S. Hutter[2], E. Corrales-Aguilar[3]
[1]Heredia (Costa Rica), [2]Vienna (Austria), [3]San Jose (Costa Rica)

20.192 Gap analysis of leishmaniasis detection, prevention, and response lessons learned for vectorborne diseases in the Hashemite Kingdom of Jordan
K. A. Kanani[1], S. A. Sheikh Ali[1], B. Shadfan[1], J. Crilly[2], K. Yotebieng[3], A. M. Bersani[4]
[1]Amman (Jordan), [2]Tirana (Albania), [3]Columbus, OH (USA), [4]Lyon (France)

20.193 The global population genetics of Dengue viruses revealed through temporal and spatial mapping of viral genetic variation
K. D. Kawashima, H. Akashi Mishima (Japan)

20.194 Standardisation of Zika virus nucleic acid testing
S. Kempster, C. Santirso Margaretto, C. Morris, R. Anderson, N. Almond
Potters Bar (United Kingdom)

20.195 A case of West Nile viral encephalitis with reversible hearing loss in an immunocompetent patient
A. Khalil, H. Moutran, C. Corr, F. Elias
Staten Island, NY (USA)

20.196 *Aedes aegypti* mosquito vector of dengue in the Arabian Peninsula: Ecology, phylogenetics and control
E. I. M. Khater[1], F. Baig[2], A. Saleh[2], H. Kamal[3]
[1]Cairo (Egypt), [2]Riyadh (Saudi Arabia), [3]Jeddah (Saudi Arabia)

20.197 First molecular identification of *Dirofilaria* spp. (Onchocercidae) in mosquitoes from Serbia
K. Kurucz[1], A. Kepner[1], B. Krtinic[2], B. Zana[1], F. Földes[1], K. Banyai[3], M. Oldal[1], F. Jakab[1], G. Kemenesi[1]
[1]Pécs (Hungary), [2]Novi Sad (Serbia), [3]Budapest (Hungary)

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H. S. Lee, J.-S. Sunwoo, S.-J. Ahn, J. Moon, J.-A. Lim, J.-S. Jun, W.-J. Lee, S.-T. Lee, S. K. Lee, K. Chu
Seoul (Korea)

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I. G. Leo-Nnadi, S. Gidado, A. Oladimeji, P. Nguku
Abuja (Nigeria)

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T. Lernout, A. Litzroth, S. Moreels, B. Kabamba Mukadi, V. Van Casteren, S. Quoilin
Brussels (Belgium)

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E. A. H. Little[1], J. Shaman[1], M. Diuk-Wasser[2], S. LaDeau[3]
[1]New York City, NY (USA), [2]New Haven, CT (USA), [3]Milbrook, NY (USA)

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J.-L. Marié[1], B. Lafrance[2], M. Maquart[3], B. Mulot[4], A. Leclerc[4], B. Davoust[3], I. Leparc-Goffart[3]
[1]Toulon (France), [2]Djibouti (Djibouti), [3]Marseilles (France), [4]Saint-Aignan (France),

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J. Kuule, **R. Naturinda**, P. Kyambadde, R. Tayona, C. Kagulire, A. Thembo, V. Tuhaise, J. Bwambale, D. Kalungi
Kampala (Uganda)

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G. M. Nicolescu, V. S. Purcarea Ciulacu, A. Vladimirescu, E. C. Coipan, A. I. Petrisor, G. Dumitrescu, D. Saizu, E. Savin, I. Sandric, F. Mihai
Bucharest (Romania)

20.205 A health facility based serosurvey of circulating Dengue in Trans Nzoia, Western Kenya
S. Nzou, M. Mwau
Nairobi (Kenya)

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A. D. P. Pacheco-Coral, M. Kett
London (United Kingdom)

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R. Rossi[1], A. M. Rocchigiani[1], D. Manunta[1], C. Foxi[1], R. Bechere[1], S. Cappai[1], O. Portanti[2], G. Satta[1], F. Monaco[2], **G. Puggioni**[1]
[1]Sassari (Italy), [2]Teramo (Italy)

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S. Saini[1], A. Ghosh[2], R. Singh[2], S. Verma[2], S. Das[2], A. Mandal[2], K. Abhishek[2], A. Kumar[2], P. Das[2]
[1]Hajipur, Bihar (India), [2]Patna (India)

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R. Sehgal[1], H. Kaur[1], S. C. Singhi[1], A. Bhalla[1], D. Bansal[2], A. A. Sultan[2]
[1]Chandigarh (India), [2]Doha (Qatar)

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B. Sengkeopraseuth
Vientiane (Lao)

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S. Chinikar[1], **N. Shahhosseini**[2]
[1]Tehran (Iran),
[2]Hamburg (Germany)

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S. H. Sheuya, J. Kilewo, A. Abade, J. Mghamba
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H. Shigemi[1], K. Itoh[1], K. Tai[1], Y. Fujitomo[2], T. Yamauchi[1], H. Iwasaki[1]
[1]Fukui (Japan), [2]Kyoto (Japan)

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A. Suliman
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A. K. Sy[1], D. E. Tomas[1], M. Saito[2], A. Tandoc[1]
[1]Muntinlupa (Philippines) [2]Sendai (Japan)

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M. Trojanek, J. Maixner, N. Sojkova, H. Rohacova, F. Stejskal
Prague (Czech Republic)

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G. P. Goërtz[1], J. J. Fros[2], P. Miesen[3], C. B. Vogels[1], C. Geertsema[1], C. J. Koenraadt[1], R. P. van Rij[3], **M. M. van Oers**[1], G. P. Pijlman[1]
[1]Wageningen (Netherlands), [2]Oxford (United Kingdom), [3]Nijmegen (Netherlands)

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N. Vepkhvadze[1], M. Donduashvili[1], M. Kokhreidze[1], G. Risatti[2]
[1]Tbilisi (Georgia), [2]Storrs, CT (USA)

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F. Verna[1], M. Ballardini[2], A. Pautasso[1], M. C. Radaelli[1], D. R. Francese[1], A. Mosca[1], G. Savini[3], R. Orusa[4], L. Chiavacci[1], C. Casalone[1]
[1]Turin (Italy), [2]Imperia (Italy), [3]Teramo (Italy), [4]Aosta (Italy)

20.220 Life cycle of Zika virus in human dendritic cells
N. J. Vielle[1], B. Zumkehr[1], D. Musso[2], A. Summerfield[1], M. Alves[1]
[1]Mittelhäusern (Switzerland), [2]Papeete, Tahiti, Polynésie Française (France)

20.221 Molecular exploration of genetic resistance in riverine buffalo
M. Jarved
Punjab (Pakistan)

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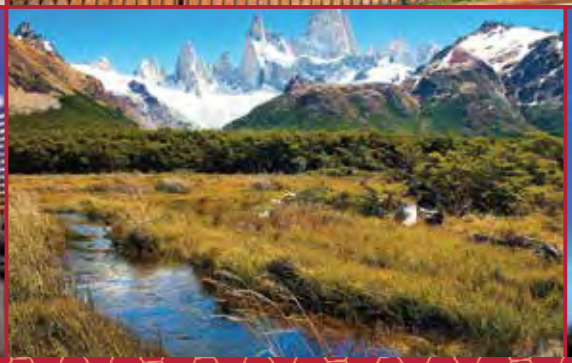


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