Sunday, August 26, 2018

5:30 PM – 7:30 PM

**Emerging Infectious Diseases: Looking Back, Looking Forward** (Keynote Session)

Welcome

**Robert Redfield**: Centers for Disease Control and Prevention, Atlanta, Georgia

ICEID 1998: Back to the Beginning

**James Hughes**: Emory University; Atlanta, Georgia

Learning While Doing: Tackling Emerging Infections since SARS

**Anne Schuchat**: Centers for Disease Control and Prevention; Atlanta, Georgia

Data Analytics for Optimising Outbreak Response

**Neil Ferguson**: Imperial College London; London, United Kingdom

7:30 PM – 9:30 PM

**Keynote Reception**

Monday, August 27, 2018
7:00 AM – 8:00 AM  Poster Set-up

8:00 AM – 9:00 AM  Healthcare-Associated Infections in Europe and the United States (A1)

Continental Divide:  Healthcare-Associated Infections in Europe and the United States
Stephan Harbarth:  Geneva University Hospitals; Geneva, Switzerland

8:00 AM – 9:00 AM  Zika:  Human Neurological Outcomes (A2)

Congenital Zika Syndrome:  Beyond Microcephaly
Vanessa van der Linden:  Association for Assistance of Disabled Children; Recife, Pernambuco, Brazil

8:00 AM – 9:00 AM  Challenges for Disease Elimination and Eradication (A3)

Joy and Agony on the Road to Polio, Measles, and Rubella Eradication
Steve Cochi:  Centers for Disease Control and Prevention, Atlanta, Georgia
8:00 AM - 9:00 AM Lessons Learned from the West Africa Ebola Outbreak (A4)

What We Learned from the Ebola Response in 2014–2016
David Heymann: London School of Hygiene and Tropical Medicine; London, United Kingdom

9:10 AM - 10:10 AM Genomic Epidemiology (B1)

Real-time Genomic Surveillance of Pathogen Evolution and Spread
Trevor Bedford: Fred Hutchinson Cancer Research Center; Seattle, Washington

9:10 AM - 10:10 AM Infectious Diseases in Humanitarian / Disaster Settings (B2)

Effects of Conflict on Diseases of Epidemic Potential
Paul Spiegel: Johns Hopkins Bloomberg School of Public Health; Baltimore, Maryland

9:10 AM - 10:10 AM Vaccines for Dengue, A Major Aedes-Transmitted Arbovirus (B3)

Live Attenuated Vaccines for Dengue Virus: A Long and Adventurous Journey
Steve Whitehead: National Institutes of Health; Bethesda, Maryland

9:10 AM - 10:10 AM IHR and Global Health Security (B4)
Preparedness: Half Full or Empty?

Keiji Fukuda: The University of Hong Kong; Pokfulam, Hong Kong SAR, China

10:10 AM - 10:30 AM Coffee Break

10:30 AM - 12:00 PM Emerging Vector-Borne Diseases and New Control Strategies (C1)

*Borrelia miyamotoi*: An Emerging Tick-Borne Disease

Peter Krause: Yale School of Public Health; New Haven, Connecticut

Alpha-gal Red Meat Allergy: An Emerging Tick-Borne Epidemic of Anaphylaxis

Scott Commins: University of North Carolina; Chapel Hill, North Carolina

World Mosquito Program: Using Wolbachia to Stop Arboviral Disease Transmission

Cameron Simmons: Monash University; Clayton, Victoria, Australia

The Application of Gene Drive Technology for the Elimination of Malaria in sub-Saharan Africa

Greg Lanzaro: University of California, Davis; Davis, California

10:30 AM - 12:00 PM Bioinformatics and Big Data in Public Health (C2)
Building a Real-Time Global Pathogen Surveillance System Integrated with Clinical Diagnostics

**Zamin Iqbal**: EMBL-EBI, Wellcome Trust Genome Campus; Cambridge, United Kingdom

The European Union's COMPARE Project

**Marion Koopmans**: The Erasmus University Medical Center; Rotterdam, The Netherlands

From Ebola to Zika—Tracking Outbreaks Using Genomics

**Kristian Andersen**: The Scripps Research Institute; La Jolla, California

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**Respiratory Diseases**: Focus on Legionella, MERS, and Plague (C3)

Laboratory Diagnosis of Legionnaires' Disease

**Paul Edelstein**: University of Pennsylvania; Philadelphia, Pennsylvania

Public Health Response to MERS CoV: Six Years' Experience of Saudi Arabia

**Ahmed Hakawi**: Ministry of Health; Riyadh, Saudi Arabia

Panic in the Streets: Pneumonic Plague in Madagascar and Beyond

**Paul Mead**: Centers for Disease Control and Prevention; Fort Collins, Colorado

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**Emerging Issues in Sexually Transmitted Diseases** (C4)

Public Health STD Programs Successfully Engaging Primary Care Providers to Improve Chlamydia Screening
Gale Burstein: Erie County Department of Health; Buffalo, New York

Emerging Issues in STI Diagnostics: How to Plan for STI Self-Testing

Charlotte Gaydos: Johns Hopkins University; Baltimore, Maryland

Emerging Issues in Antibiotic-Resistant Gonorrhea and Beyond

Emily Weston: Centers for Disease Control and Prevention; Atlanta, Georgia

12:00 PM – 12:30 PM  Lunch (on your own)

12:30 PM – 1:45 PM  Poster Session with Authors (Posters I)

12:30 PM – 1:45 PM  Emerging and Re-Emerging Infectious Diseases in the WHO Eastern Mediterranean Region (Lunchtime Panel I)

Sandwiches available for purchase – International Ballroom Pre-function 1

1:45 PM – 3:15 PM  New Data Systems and Platforms for Disease Surveillance (D1)
The One Health Approach to Disease Surveillance

**Neo Joel Mapitse:** World Organisation for Animal Health (OIE); Paris, France

Use of Geospatial Data in Disease Surveillance

**Amy Wesolowski:** Johns Hopkins Bloomberg School of Public Health; Baltimore, Maryland

Use of Social Media in Disease Surveillance

**John Brownstein:** Harvard Medical School; Boston, Massachusetts

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**1:45 PM – 3:15 PM**

**Bugs from Drugs: Emerging Infections in People Who Use Opioids** (D2)

The Opioid Crisis: An Epidemic without a Pathogen

**Mark Tyndall:** British Columbia Centre for Disease Control; Vancouver, BC, Canada

Kentucky Responds to the Opioid Crisis: Law Enforcement and Public Health as Partners

**Van Ingram:** Kentucky Office of Drug Control Policy; Frankfort, Kentucky

Drug Use in Public Health: Practical Solutions to Complex Problems

**Alice Asher:** Centers for Disease Control and Prevention; Atlanta, Georgia

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**1:45 PM – 3:15 PM**

**Emerging Fungal Infections in Healthcare Settings** (D3)

The Fight to Control the Spread of *C. Auris* in a Large Hospital in Spain

**Ana Alastruey-Izquierdo:** Instituto de Salud Carlos III; Madrid, Spain
The Emergence and Spread of *Candida auris* in South Africa

**Nelesh Govender:** National Institute for Communicable Diseases; Johannesburg, South Africa

*Aspergillus* in Holland and Beyond: Emerging as an Important Cause of Death in Severe Flu and Becoming Resistant to First-Line Therapy

**Jacques F. Meis:** Canisius–Wilhelmina Ziekenhuis; Nijmegen, Netherlands

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1:45 PM – 3:15 PM

**Environmental / Ecological Factors and Emerging Infectious Diseases: A Multi-Continental Approach** (D4)

Global Environmental Change as a Driver of Infectious Disease Threat Events in Europe

**Jan Semenza:** European Centre for Disease Prevention and Control; Stockholm, Sweden

Transforming Landscapes and the Ecology of Scale: Understanding Disease Emergence at the Human–Wildlife–Environmental Interface

**Kathleen Alexander:** Virginia Polytechnic Institute and State University; Blacksburg, Virginia

Factors Driving Honey Bee Colony Losses

**Dennis VanEngelsdorp:** University of Maryland; College Park, Maryland

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3:15 PM – 3:30 PM

**Coffee Break**
Novel Surveillance Systems (E1)

1. Strengthening Global Event-Based Surveillance Capacity—Epidemic Intelligence from Open Sources (EIOS) Project
   **C. Hercik**: CDC Foundation; Atlanta, Georgia

2. EpiHack—An Innovative Process for Developing Local Solutions to Infectious Disease Surveillance Challenges
   **A. Crawley**: Ending Pandemics; San Francisco, California

3. Lessons Learned from Community Event-Based Surveillance Implementation in Ghana
   **S. Merali**: Synergy America, Inc.; Atlanta, Georgia

4. Leveraging Community Health Worker Engagement for Early Detection and Reporting of Emerging Infectious Diseases
   **S. Kanga**: Medic Mobile; Nairobi, Kenya

   **L. Zabrano**: Centers for Disease Control and Prevention; Atlanta, Georgia

6. Use of SaTScan to Identify Clusters of HIV Diagnoses to Guide Public Health Investigation
   **A. Board**: Oak Ridge Institute for Science and Education; Oak Ridge, Tennessee

Emerging Threats in Healthcare (E2)

M. Anderson: Iowa Department of Public Health; Des Moines, Iowa

2. Epidemiologic Approach for an Outbreak Investigation by *Ralstonia mannitolilytica* in Dialysis Units, Colombia, 2017–18

S. Rivera Vargas: The National Institute of Health; Bogata, Columbia

3. Estimating the Attributable Disease Burden and Effects of Inter-Hospital Patient Sharing on *Clostridium difficile* Infections

D. Sewell: University of Iowa; Iowa City, Iowa


I. Benowitz: Centers for Disease Control and Prevention; Atlanta, GA

5. High Prevalence of Metallo-β-Lactamase Carbapenemase-Producing *Acinetobacter baumannii* in Tripoli, Libya: Dominance of OXA–23 and NDM–1

A. Zorgani: Faculty of Medicine; Tripoli, Libya

6. Successful Control of a Multi-Patient Use Equipment Driven *Candida auris* Outbreak in a UK Intensive Care Unit

D. Eyre: University of Oxford; Oxford, United Kingdom

3:30 PM – 5:00 PM

**Vector-Borne Diseases (E3)**

1. Yellow Fever Outbreak Response in Kebbi State, North-western Nigeria—January 2018

A. Hassan: Nigeria Field Epidemiology and Laboratory Training Program; Abuja, Nigeria
2. CDC’s International Vector Response to the Zika Virus Outbreak: Strengthening Regional Public Health Entomology Networks
   **R. Levine**: Centers for Disease Control and Prevention; Atlanta, GA

   **S. Khan**: University of Guelph; Guelph, ON, Canada

4. Tracking the Spread of Insecticide Resistance in *Aedes aegypti* and *Ae. albopictus* for Informed Vector Control of Arboviral Diseases
   **M. Hadi**: Vestergaard; Nairobi, Kenya

   **K. Kugeler**: Centers for Disease Control and Prevention; Fort Collins, Colorado

6. Evaluating the Risk of Tick-Borne Relapsing Fever Among Occupational Cavers—Austin, TX, 2017
   **S. Campbell**: Centers for Disease Control and Prevention; Fort Collins, Colorado

**Frontline Public Health** (E4)

1. Missed Opportunities to Diagnose Infections Related to Injection Drug Use Are Common: A Population-Based Investigation
   **A. Miller**: University of Iowa; Iowa City, Iowa
<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Author(s)</th>
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<tbody>
<tr>
<td>2</td>
<td>Hepatitis C Testing among Health Department Clients in Tennessee</td>
<td>L. Sizemore: Tennessee Department of Health; Nashville, Tennessee</td>
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<td>3</td>
<td>Repeat Chlamydial Infections among Women Aged 15 to 34 Years—Louisiana, 2000–2015</td>
<td>S. Cha: Centers for Disease Control and Prevention; Atlanta, Georgia</td>
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<td>4</td>
<td>Sexual Activity, Abstinence, and Condom Use among Pregnant Women During the Zika Virus Outbreak—Puerto Rico</td>
<td>K. Turay: Centers for Disease Control and Prevention; Atlanta, Georgia</td>
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<td>5</td>
<td>Level and Factors Influencing Uptake of Human Papilloma Virus Vaccine among Female Adolescents in Lira District, Uganda, 2016</td>
<td>E. Kisaakye: Makerere University; Kampala, Uganda</td>
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<td>6</td>
<td>Measles Outbreak in an Underimmunized Community—Minnesota, 2017</td>
<td>J. Griffith: Minnesota Department of Health; St. Paul, Minnesota</td>
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Tuesday, August 28, 2018

7:00 AM – 8:00 AM  **Poster Set-up**

8:00 AM – 9:00 AM  **The Microbiome and Human Health (F1)**
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<thead>
<tr>
<th>Time</th>
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<th>Speaker</th>
<th>Organization/Location</th>
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<tbody>
<tr>
<td>8:00 AM - 9:00 AM</td>
<td><strong>Invisible Influence: The Microbiome and Human Health</strong>&lt;br&gt;<strong>Jack Gilbert</strong>: University of Chicago; Chicago, Illinois</td>
<td><strong>Public Health Preparedness and Outbreak Response</strong> (F2)</td>
<td>Changing Landscape of US Preparedness&lt;br&gt;<strong>Tom Inglesby</strong>: Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland</td>
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<td>8:00 AM - 9:00 AM</td>
<td><strong>Reemergence of Vaccine-Preventable Diseases: Focus on Diphtheria</strong> (F3)</td>
<td><strong>Diphtheria: A Re-Emerging Threat in Countries Affected by Conflict, Migration, and Economic Disruption</strong>&lt;br&gt;<strong>Stephen Hadler</strong>: Centers for Disease Control and Prevention (retired), Atlanta, GA</td>
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<td>8:00 AM - 9:00 AM</td>
<td><strong>Cholera: The Beginning of the End?</strong> (F4)</td>
<td><strong>Ending Cholera: A Global Roadmap to 2030</strong>&lt;br&gt;<strong>Dominique Legros</strong>: World Health Organization; Geneva, Switzerland</td>
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<td>9:10 AM - 10:10 AM</td>
<td><strong>National Control of Carbapenem-Resistant Enterobacteriaceae</strong> (G1)</td>
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### Control of Carbapenem-Resistant Enterobacteriaceae at the National Level
**Mitchell Schwaber:** Israel Ministry of Health; Tel Aviv, Israel

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<th>Time</th>
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<tr>
<td>9:10 AM - 10:10 AM</td>
<td><strong>Advanced Molecular Detection of Infectious Diseases</strong> (G2)</td>
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<td><strong>Making of a Pathogen</strong></td>
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<td><strong>Ashlee Earl:</strong> The Broad Institute of MIT and Harvard; Cambridge, Massachusetts</td>
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<td>9:10 AM - 10:10 AM</td>
<td><strong>Africa CDC</strong> (G3)</td>
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<td><strong>Africa CDC: A New Public Health Order for Africa's Health Security</strong></td>
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<td><strong>John Nkengasong:</strong> Africa Centres for Disease Control and Prevention, African Union; Addis Ababa, Ethiopia</td>
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<td>9:10 AM - 10:10 AM</td>
<td><strong>One Health</strong> (G4)</td>
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<td><strong>Infectious Disease Emergence: A One Health Perspective</strong></td>
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<td><strong>William Karesh:</strong> EcoHealth Alliance; New York, New York</td>
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<tr>
<td>10:10 AM - 10:30 AM</td>
<td><strong>Coffee Break</strong></td>
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Emerging Scientific Issues for Global Immunization Programs (H1)

Addressing Vaccine Hesitancy as an Obstacle to Global Immunization
**Robb Butler**: World Health Organization Regional Office for Europe; Copenhagen, Denmark

Progress Towards a Comprehensive Maternal Immunization Platform
**Saad Omer**: Emory University; Atlanta, Georgia

New Vaccines on the Horizon for Global Immunization Programs
**Jon Abramson**: Wake Forest University School of Medicine; Winston-Salem, North Carolina

Viral Hemorrhagic Fevers (H2)

Hantaviruses in the Americas
**Greg Mertz**: University of New Mexico; Albuquerque, New Mexico

Lassa Fever—West African Experience
**Stephan Guenther**: Bernhard Nocht Institute for Tropical Medicine; Hamburg, Germany

What We Have Learned about VHF Disease Pathogenesis
**Anita McElroy**: University of Pittsburgh, Pittsburgh, Pennsylvania
10:30 AM - 12:00 PM  More Answers, More Questions: Whole-Genome Sequencing in Foodborne Disease Epidemiology (H3)

Routine Genomic Surveillance of Enteric Disease in England
Tim Dallman: Public Health England; London, United Kingdom

U.S. Foodborne Disease Surveillance in the Genomics and Metagenomics Era
John Besser: Centers for Disease Control and Prevention; Atlanta, Georgia

Sources of Infection of Campylobacter Approach by Whole Genome Sequencing and Classical Epidemiology—A Perspective from Denmark
Steen Ethelberg: Statens Serum Institute; Copenhagen, Denmark

10:30 AM - 12:00 PM  Emerging Infections Associated with Life-Saving Medical Devices (H4)

Ineffective Endoscope Reprocessing and the Use of Prophylactic Antimicrobials: Opening the Door to Efficient Pathogen Transmission
Cori Ofstead: Ofstead & Associates; St. Paul, Minnesota

Cardiac Surgery-Associated Mycobacterium chimaera Infections
Peter Werner Schreiber: University Hospital Zurich; Zurich, Switzerland

Regulatory Perspectives on Ensuring the Safety of Cleared or Approved Medical Devices
Suzanne Schwartz: U.S. Food and Drug Administration; Silver Spring, Maryland
12:00 PM - 12:30 PM  Lunch (on your own)

12:30 PM - 1:45 PM  Poster Session with Authors (Posters II)

12:00 PM - 1:45 PM  Building a GHS Implementation Evidence Base: Demonstrating Impact of GHS/IHR Investments  (Lunchtime Panel II)
Sandwiches available for purchase – International Ballroom Pre-function 1

1:45 PM - 3:15 PM  When Misinformation and Rumor Threaten an Outbreak Response (I1)

Title TBD
Mirta Ojito: NBCUniversal Telemundo Enterprises; Miami, Florida

Inoculate Yourself Against Online Viral Rumors
Al Tompkins: The Poynter Institute; St. Petersburg, Florida

Call Me, Maybe
Helen Branswell: STAT; Boston, Massachusetts
1:45 PM – 3:15 PM

Detecting and Preventing Novel Transplant–Associated Infections

Histopathological Recognition of Donor-Derived Transmission of Emerging Pathogens in the United States

Sherif Zaki: Centers for Disease Control and Prevention; Atlanta, Georgia

Fungi, Multi-Drug Resistant Bacteria, and Arboviral Disease Transmission through Solid Organ Transplantation in Europe

Paolo Antonio Grossi: University of Insubria; Varese, Italy

HIV-to-HIV Transplantation in Africa: Drug Resistance, Opportunistic Infections, and a New Lease on Life

Elmi Muller: Groote Schuur Hospital; Cape Town, South Africa

1:45 PM – 3:15 PM

Genomic Epidemiology: From the Lab to the Street

Linking Whole-Genome Sequencing to Epidemiology and Delivery for Decision-Making

David Aanensen: University of Oxford; Oxford, United Kingdom

Reconstructing Transmission Patterns from Sequence Information: Examples from Influenza and Dengue

Derek Cummings: University of Florida; Gainesville, Florida

Data Integration and Visualization for Tuberculosis Outbreak Investigations

Ben Silk: Centers for Disease Control and Prevention; Atlanta, Georgia
<table>
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<th>Time</th>
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</table>
| 1:45 PM – 3:15 PM | Monitoring for the Next Pandemic Threat: Emerging Influenza Viruses (H7N9) (I4) | From Human Infection with Avian Influenza Viruses to Pandemic Preparedness in China  
Lei Zhou: Chinese Center for Disease Control and Prevention; Beijing, China  
The Pathogenesis of Asian H7N9 Avian Influenza in Poultry  
David Suarez: U.S. Department of Agriculture; Athens, Georgia  
Virologic Characteristics of Avian Influenza A(H7N9) Viruses Detected in Humans  
Todd Davis: Centers for Disease Control and Prevention; Atlanta, Georgia |
| 3:15 PM – 3:30 PM | Coffee Break             |                                                                         |
| 3:30 PM – 5:00 PM | Molecular Epidemiology (J1) | 1. Distributed Cloud-Based Bioinformatics for Microbial Characterization and Outbreak Surveillance  
J. Sevinsky: Colorado Department of Public Health and Environment; Denver, Colorado  
2. Norovirus Outbreaks in China During 2014–2017  
L. Ran: Chinese Center for Disease Control and Prevention; Beijing, China  
3. Large-Scale Surveillance of Wild Bird Populations for Emergent Influenza Viruses  
S. Bevins: National Wildlife Research Center; Fort Collins, Colorado |
4. Linked Whole Genome Sequencing and Epidemiological Analysis Reveals Nationally Distributed Clusters of *M. abscessus* which Cross Disease Boundaries and Are Unlikely To Be Spread Through Person-to-Person Transmission

**S. Lipworth**: University of Oxford; Oxford, United Kingdom

5. Antibiotic Resistance Among Group B Streptococcal Isolates from Invasive Early- and Late-Onset Disease in the United States, 2006-2015

**S. Nanduri**: Centers for Disease Control and Prevention; Atlanta, Georgia

6. Can Social Media Advance Science? A Case Study from the 2016 *Elizabethkingia anophelis* Outbreak

**A. Guinn**: Centers for Disease Control and Prevention; Atlanta, Georgia

3:30 PM – 5:00 PM

**Preparedness and Response** (J2)


**M. Malik**: World Health Organization Office for the Eastern Mediterranean Region; Cairo, Egypt

2. Establishing and Sustaining National Multisectoral One Health Coordination Mechanisms to Prevent, Prepare for, Detect, and Respond to Public Health Threats

**M. Rasmuson**: DAI Global Health; Bethesda, Maryland

3. Connecting Organizations for Regional Disease Surveillance (CORDS): Building a Safer World for Communities in Underserved Regions

**C. Longuet**: Connecting Organisations for Regional Disease Surveillance; Lyon, France
4. OIE Laboratory Twinning Projects: A Global Tool to Strengthen Laboratory Capacity for Control of Terrestrial and Aquatic Animal Diseases  
G. Pavade: World Organisation for Animal Health (OIE); Paris, France

K. Kugeler: Centers for Disease Control and Prevention; Fort Collins, Colorado

6. Assessing Capacities for Pandemic Influenza Preparedness and Response Through IHR Joint External Evaluation in Low- and Middle-Income Countries  
W. Zhou: World Health Organization; Geneva, Switzerland

3:30 PM – 5:00 PM  
Viral Zoonoses (J3)

1. Marburg Virus Disease Outbreak—Kween District: Uganda, September–November, 2017  
I. Nkonwa: Centers for Disease Control and Prevention; Kampala, Uganda

M. Rasooly: Ministry of Health; Kabul, Afghanistan

3. The Rabies Puzzle in India: A One Health Approach to Understanding a Multi-Faceted Problem  
A. Vanak: Wellcome Trust/DBT India Alliance; Bangalore, India

4. The Cost of Rabies Post-Exposure Prophylaxis in Minnesota, 2017–2018  
S. Johnson: Minnesota Department of Health; St. Paul, Minnesota
5. Fifteen Years of Enhanced Rabies Related Lyssavirus Surveillance in South Africa
   W. Markotter: University of Pretoria; Pretoria, South Africa

6. Exposures Among Middle East Respiratory Syndrome Coronavirus Patients—Saudi Arabia, July–October 2017
   E. Rose: Ministry of Health; Riyadh, Saudi Arabia

3:30 PM – 5:00 PM  Late Breakers I (J4)
   TDB

Wednesday, August 29, 2018

7:00 AM – 8:00 AM  Poster Set-up

8:00 AM – 9:00 AM  Forecasting Emerging Infections (K1)
   The Present is Pregnant with the Future: Lessons Learned from Forecasting
   Rebecca Grais: Médecins Sans Frontières; Paris, France
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<tr>
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<tr>
<td>8:00 AM - 9:00 AM</td>
<td><strong>100 Years after the 1918 Influenza Pandemic</strong> (K2)</td>
<td>100 Years Since 1918: Are We Ready for the Next Severe Influenza Pandemic?</td>
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<td><strong>Dan Jernigan</strong>: Centers for Disease Control and Prevention; Atlanta, Georgia</td>
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<td>8:00 AM - 9:00 AM</td>
<td><strong>Addressing Neglected Tropical Diseases: Focus on Guinea Worm</strong> (K3)</td>
<td>Wrapping Up the Final Inch: Achievements and Challenges in Reaching Guinea Worm Eradication</td>
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<td><strong>Sharon Roy</strong>: Centers for Disease Control and Prevention; Atlanta, Georgia</td>
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<td>8:00 AM - 9:00 AM</td>
<td><strong>Globalization of People and Disease</strong> (K4)</td>
<td>Travelers as Sentinels of Disease Outbreaks: The GeoSentinel Experience</td>
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<td><strong>David Hamer</strong>: Boston University Schools of Public Health and Medicine; Boston, Massachusetts</td>
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<td>9:10 AM - 10:10 AM</td>
<td><strong>Infectious Causes of Child Mortality</strong> (L1)</td>
<td>Focusing on Targets for Reducing Childhood Mortality Through the Child Health and Mortality Prevention Surveillance (CHAMPS) Network</td>
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<td><strong>Robert Breiman</strong>: Emory University; Atlanta, Georgia</td>
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9:10 AM – 10:10 AM **Novel Surveillance Strategies** (L2)  
Towards Digital Pathogen Surveillance  
**Jennifer Gardy:** British Columbia Centre for Disease Control; Vancouver, BC, Canada

9:10 AM – 10:10 AM **Emerging Tick–Borne Diseases** (L3)  
The Changing Climate for Lyme Disease and Other Tick–Borne Zoonoses  
**Alan Barbour:** University of California, Irvine; Irvine, California

9:10 AM – 10:10 AM **Foodborne Disease Surveillance and Culture–Independent Diagnostic Tests** (L4)  
Public Health Response to Foodborne Diseases in the Era of Culture–Independent Diagnostic Testing  
**Timothy Jones:** Tennessee Department of Public Health; Nashville, Tennessee

10:10 AM – 10:30 AM **Coffee Break**
10:30 AM – 12:00 PM  
**Emerging Paths to Publishing Your Work: The Good, the Fast, and the Ugly (M1)**

Doing Science Is Not Enough: The Importance of Communicating Your Work in Any Way That You Can

**Chris Gunter:** Emory University School of Medicine; Atlanta, Georgia

Publication Options for Research Authors: Cascading Peer Review, Public Access, and Open Access

**Annette Flanagin:** JAMA and The JAMA Network; Chicago, IL

Tips for Avoiding Questionable Infectious Diseases Journals and Conferences

**Sharon Bloom:** Centers for Disease Control and Prevention; Atlanta, Georgia

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10:30 AM – 12:00 PM  
**Rodent-Borne Zoonoses (M2)**

Eco-Epidemiology of Urban Leptospirosis in Brazil

**Federico Costa:** Federal University of Bahia; Salvador, Brazil

Mighty Rodents: Recent Zoonotic Outbreaks in Feeder Mice and Pet Rats

**Barbara Knust:** Centers for Disease Control and Prevention; Atlanta, Georgia

National Park Service Ecological and Prevention Initiatives

**Danielle Buttke:** National Park Service; Ft. Collins, Colorado

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10:30 AM – 12:00 PM  
**Mathematical Modeling to Better Understand the Emergence and Transmission of MDRO (M3)**
Enhancing Multidrug-Resistant Organism Prevention Strategies With Mathematical Modeling
**Prabasaj Paul**: Centers for Disease Control and Prevention; Atlanta, Georgia

**Karim Khader**: University of Utah; Salt Lake City, Utah

Estimating the Magnitude and Effects of Bystander Selection for Antibiotic Resistance in the United States
**Christine Tedijanto**: Harvard T.H. Chan School of Public Health; Boston, Massachusetts

10:30 AM – 12:00 PM

**Make History: End TB** (M4)

Tuberculosis Outbreaks in the United States: A National Perspective
**Jonathan Wortham**: Centers for Disease Control and Prevention; Atlanta, Georgia

TB Outbreak in Perry County, Alabama, and the Implementation of Interventions to Contain
**Pam Barrett Scanlon**: Alabama Department of Public Health; Montgomery, Alabama

Using Models of Transmission to Prioritize Action in the Fight to End Tuberculosis
**David Dowdy**: Johns Hopkins University; Baltimore, Maryland

New and Repurposed Drugs for Drug-Resistant Tuberculosis
**Payam Nahid**: University of California, San Francisco; San Francisco, California
12:00 PM – 12:30 PM  
**Lunch (on your own)**

12:30 PM – 1:45 PM  
**Poster Session with Authors** (Posters III)

12:30 PM – 1:30 PM  
**Measuring Progress and Impact of GHS Capacity-Building Implementation in Partner Countries** (Lunchtime Panel III)

  Sandwiches available for purchase – International Ballroom Pre-Function

1:45 PM – 3:15 PM  
**Prevention and Control of Viral Hepatitis** (N1)

Hepatitis A Outbreaks—United States, 2016-2018

**Monique Foster**: Centers for Disease Control and Prevention; Atlanta, Georgia

The Cherokee Nation HCV Elimination Program: Overcoming Barriers To Move Forward

**Jorge Mera**: Cherokee National Health Service; Tahlequah, Oklahoma

The HCV Epidemic in People Who Use Drugs in the United States: Emerging or
Resurging?

**Kimberly Page**: University of New Mexico; Albuquerque, New Mexico

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1:45 PM – 3:15 PM

**Microbiome: Pathology, Ecology, Epidemiology** (N2)

Exploiting the Microbiome to Reduce Intestinal Colonization with Antibiotic-Resistant Bacteria

**Eric Pamer**: Memorial Sloan Kettering Cancer Center; New York, New York

A Microbiome Perspective on Antibiotic Resistance and Pathogens in Water Systems

**Amy Pruden**: Virginia Polytechnic Institute and State University; Blacksburg, Virginia

Establishing Causality in Microbiota Research

**Volker Mai**: University of Florida; Gainesville, Florida

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1:45 PM – 3:15 PM

**Epidemic Prediction Initiative: Moving from Research to Decisions** (N3)

Real-Time Epidemic Forecasting: Advancing the Science and Public Health Utility of Forecasting

**Michael Johannson**: Centers for Disease Control and Prevention; San Juan, Puerto Rico

Forecasting Infectious Disease Incidence

**Steven Riley**: Imperial College London; London, United Kingdom

Epidemic Prediction and Outbreak Decision-Making

**Jean-Paul Chretien**: Office of Science and Technology Policy; Washington, DC
Pathogen Discovery and Investigation of New Syndromes (N4)

1:45 PM – 3:15 PM

The Ecology of MERS-CoV: From Host Reservoir to Disease
Vincent Munster: National Institutes of Health; Hamilton, Montana

Metagenomic Sequencing for Pathogen Surveillance and Discovery
Charles Chiu: University of California, San Francisco, School of Medicine; San Francisco, California

Development of Rapid Response Platforms for Highly Pathogenic Emerging Respiratory Viruses
Ralph Baric: University of North Carolina; Chapel Hill, North Carolina

3:15 PM – 3:30 PM

Coffee Break

3:30 PM – 5:00 PM

Detection and Diagnosis (O1)

1. The Association Between Precipitation, Temperature, and the Detection of Viruses in Six Community Groundwater Supplies in Minnesota
S. Gretsch: Minnesota Department of Health; St. Paul, Minnesota

2. A Comparison of Reference-Based and Reference-Free Binning Tools for Salmonella
1. Assessing the Burden of Respiratory Syncytial Virus (RSV) within a Community–Based Prospective Birth Cohort

J. Kubale: University of Michigan; Ann Arbor, Michigan

2. Respiratory Syncytial Virus Deaths in Minnesota, 2006–2017

E. Bye: Minnesota Department of Health; St. Paul, Minnesota


J. Chen: Alaska State Public Health Virology Laboratory; Fairbanks, Alaska

4. Antimicrobial Resistance Genotypes Are Consistent with AMR Phenotypes in NARMS Isolates

M. Feldgarden: National Institutes of Health; Bethesda, Maryland

5. Prevalence and Assessment of Risk Factors Associated with Antibiotic Resistance Genes (ARGs) among Children Under 5 in Informal Urban Maputo, Mozambique

A. Wood: Georgia Institute of Technology; Atlanta, Georgia

6. Rapid, Specific, and Cost–Effective Identification of Zika Virus from Fixed Tissues of Congenital and Pregnancy–Associated Infections using a Novel Pyrosequencing–Based Assay

J. Bhatnagar: Centers for Disease Control and Prevention; Atlanta, Georgia
3. The Economic Impact of Influenza Hospitalizations on Families in Lao PDR

**V. Khanthamaly:** National Immunization Program; Vientiane, Lao People's Democratic Republic


**J. Temte:** University of Wisconsin School of Medicine and Public Health; Madison, Wisconsin

5. Correlation between Hospitalized Influenza and Invasive Methicillin-Resistant *Staphylococcus aureus* Infections in Minnesota, 2010–2017

**C. Bernu:** Minnesota Department of Health; St. Paul, Minnesota

6. Homotypic and Heterotypic Protection from Influenza Infection in Children

**A. Gordon:** University of Michigan; Ann Arbor, Michigan

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3:30 PM – 5:00 PM

**Evolving Challenges (O3)**

1. Increasing Incidence of Invasive Nontyphoidal *Salmonella* Disease in Queensland, Australia, 2007–2016

**A. Parisi:** Australian National University; Canberra, Australia

2. Medical Examiner Investigated Fungal Deaths, Minnesota, 2012–2017

**S. Holzbauer:** Centers for Disease Control and Prevention; St. Paul, Minnesota

3. A Cause for Concern: *Candida auris* Fungemia in Critically Ill Patients

**R. Petrossian:** Flushing Hospital Medical Center; New York, New York
4. Antibody Responses among MERS-CoV Infected Patients in Saudi Arabia

C. Midgley: Ministry of Health; Riyadh, Saudi Arabia

5. Enhanced Environmental Surveillance for Avian Influenza A(H7N9), A(H5), and A(H9) Viruses in Guangxi, China, 2017–2018

D. Wang: Chinese Center for Disease Control and Prevention; Beijing, China


A. Meyers: Texas A&M University; College Station, Texas

3:30 PM – 5:00 PM

**Late Breakers II** (O4)

TBD