GLOBAL WATER AND FOOD SAFETY SUMMIT

The Hotel at the University of Maryland
November 19-21, 2019

AGENDA

DAY 1

Tuesday, November 19, 2019

07:30 – 08:30 AM  Registration and Breakfast

08:30 – 09:00 AM  Opening

Dr. Jianghong Meng, Director, JIFSAN, University of Maryland
Dr. Eric Brown, Director of the Division of Microbiology, CFSAN
Dr. Steven Musser, Deputy Director, CFSAN

KEYNOTE SPEAKER

09:00 – 09:45 AM  Water and Risk:  Thinking Broadly in a Shrinking World

Dr. Jay L. Garland
Senior Scientist – Office of Research & Development
United States Environmental Protection Agency
Cincinnati, Ohio

PLENARY SESSION 1 (Moderator: Dr. Eric Brown)

ONE HEALTH AND THE IMPORTANCE OF AN INTEGRATED APPROACH TO FOOD SAFETY MICROBIOLOGY THAT INCLUDES ENVIRONMENTAL WATERS, FOODS, & CLINICAL SOURCES

09:45 – 10:15 AM  Advancing Food Safety:  Integration of Environmental Monitoring and Genomics

Dr. Rebecca Bell, Division of Microbiology, FDA-CFSAN, College Park, Maryland
10:15 – 10:45 AM  Microbial Safety of Fresh Produce – the Role of Surface Waters and Weather
Renata Ivanek Miojevic, Cornell University, Ithaca, New York

10:45 – 11:15 AM  COFFEE BREAK/ NETWORKING

11:15 – 11:45 AM  The Value of Integrated Approaches to Food Safety Microbiology: Examples and Lessons Learned
Dr. Lee-Ann Jaykus, Distinguished Professor of Food Science, North Carolina State University, Raleigh, North Carolina

11:45 – 12:15 PM  Global One Health and the Role of –OMICS in Strengthening Integrated Capacity to Address Food – and Water-Borne Diseases
Dr. Wondwossen Gebreyes, Hazel C. Youngberg Distinguished Professor, Executive Director, Global One Health initiative (GOHi), Ohio State University, Columbia, Ohio

12:15 –12:45 PM  DISCUSSION ROUNDTABLE #1 (Speakers above, Dr. Julie Kase, (FDA), Dr. Susan Leonard (FDA), Dr. Michael Mahovic (FDA)), Dr. Shirley Micallef

12:45 – 02:00 PM  LUNCH

PLENARY SESSION 2 (Dr. Rebecca Bell)
THE SCIENCE OF ENVIRONMENTAL WATER SAMPLING AND SURVEILLANCE: WHERE WE STAND AS A COMMUNITY

02:00 – 02:30 PM  Water Quality Standards: How We Got Here and Where We Are
Dr. Sam Myoda, IEH Laboratories & Consulting Group, Lake Forest Park, Washington

02:30 – 03:00 PM  Genomic Approaches to Reconstruct the Landscape of Microbial Contamination in Aquatic Systems
Dr. Jaime Martinez-Urtaza, Centre for Environment, Fisheries and Aquaculture Science, United Kingdom

03:00 – 03:30 PM  COFFEE BREAK/ NETWORKING

03:30 – 04:00 PM  Refining Sampling and Analysis Approaches to Advanced Understanding of the Microbiological Risks of Agricultural Water Reuse
Dr. Amy Sapkota, Professor of Public Health, University of Maryland, College Park, Maryland
04:00 – 04:30 PM  Prevalence of Salmonella and Listeria monocytogenes in Public Access Waters and Sediments in Central Coastal California Agricultural Region
Dr. Lisa Gorski, WRRC, U.S. Department of Agriculture-Agricultural Research Service, Albany, California

04:30 – 05:00 PM  CDC’s Recent Experiences Conducting Environmental Investigations of Produce-Associated Disease Outbreaks
Dr. Vincent Hill, Center for Disease Control, Water Unit, Atlanta, Georgia

05:00 – 05:30 PM  DISCUSSION ROUNDTABLE #2 (Speakers above, plus Dr. Karen Jarvis (FDA) and Dr. Kelli Hiett (FDA))

05:30 PM  RECEPTION

DAY 2

Wednesday, November 20, 2019

PLENARY SESSION #3 (Moderator: Dr. Errol Strain)

MICROBIOLOGY AT THE INTERFACE OF ENVIRONMENTAL SAMPLING AND GENOMIC ANALYSIS: LEVERAGING THE POWER OF WHOLE GENOME SEQUENCING FOR STUDYING ENVIRONMENTAL ENTERIC PATHOGENS

08:30 – 09:00 AM  Crowd-Sourcing Environmental Pathogenomics: Enteric Pathogens and Resistance Plasmids Isolated from Stream Sediments in the Shenandoah Valley of Virginia
Dr. James Herrick, James Madison University, Harrisonburg, Virginia

09:00 – 09:30 AM  Application of WGS for Studying Environmental Enteric Pathogens: Investigating Outbreaks of Shiga-Toxin-producing E. coli
Dr. Claire Jenkins, Gastrointestinal Bacteria Reference Unit, Public Health, England

09:30 – 10:00 AM  Genomic Surveillance of Salmonella spp. Circulating in Surface Water Used in Agriculture
Dr. Enrique Delgado, FMVC, UNAM, Mexico
10:00 – 10:30 AM  Dynamic Salmonella Serovar Populations in a River Watershed  
Dr. Nikki Shariat, University of Georgia, Athens, Georgia

10:30 – 11:00 AM  COFFEE BREAK/NETWORKING

11:00 – 11:30 AM  Salmonella Diversity and Distribution in Irrigation Ponds, Irrigation Systems, and Produce on Farms in Southern Georgia  
Dr. Michele Jay-Russell, University of California-Davis, Davis, California

11:30 – 12:00 PM  Listeria monocytogenes Prevalence and Population Diversity in Surface Waters  
Dr. Dumitru Macarisin, Food and Drug Administration, College Park, Maryland

12:00 – 12:30 PM  Water Quality Monitoring Efforts to Inform Risk-Based Stakeholder Decision Making  
Dr. Channah Rock, Professor of Water Science, University of Arizona, Tucson, Arizona

12:30 – 01:00 PM  DISCUSSION ROUNDTABLE #3 (Speakers above, plus Dr. Errol Strain (FDA), Dr. Christopher Grim (FDA/CFSAN), Dr. Yi Chen (FDA))

01:00 – 02:30 PM  LUNCH

02:30 – 02:45 PM  BREAKOUT SESSION (Eric Brown - Introductory Remarks and Charges)

02:45 – 05:15 PM  BREAKOUT DISCUSSIONS

~Workgroup #1: Water Sampling Methods for Enteric Pathogens (Chair: Dr. Rebecca Bell; Co-chair: Dr. Socrates Trujillo; Secretary: Ms. Christina Ferreira)

~Workgroup #2: Analytical Methods Improvements and Genomics (Chair: Dr. Jie Zheng; Co-chair: Dr. Julie Kase; Secretary: Ms. Elizabeth Reed)

~Workgroup #3: Global Opportunities and Challenges Surrounding Water Sampling (Chair: Dr. Eric Brown; Co-chair: Dr. Joergen Schlundt; Secretary: Ms. Tina Pfefer)

5:15 PM  DINNER ON YOUR OWN

DAY 3 (Half-Day)
Thursday, November 21, 2019

PLENARY SESSION 4: (Moderator: Dr. Ruth Timme)
GLOBAL PERSPECTIVES ON THE SAMPING OF WATER: CHALLENGES AND OPPORTUNITIES FOR A WORLDWIDE EFFORT

08:15 – 08:45 AM All for One and One for All: The True Potential of Whole Genome Sequencing
Dr. Marc Allard, Food and Drug Administration, College Park, Maryland

08:45 – 09:15 AM One Water One Health
Dr. Sasha Koo-Oshima, FAO Water and Soil Division, Africa

09:15 – 09:45 AM Salmonella in Surface Waters in Agricultural Areas of Central Chilé
Dr. Aiko Adell, Universidad Andrés Bello, Chilé

09:45 – 10:15 AM COFFEE BREAK/ NETWORKING

10:15 – 10:45 AM Dr. Mohammad Aminul Islam, Paul G. Allen School of Global Animal Health, Washington State University, Allen Center, Pullman, Washington & International Centre for Diarrhoeal Disease Research, Bangladesh

10:45 – 11:15 AM This for That: How Whole Genome Sequences will Enable International Connections of Food, Water and Human Microbiology – One Health Through New Methodology
Dr. Joergen Schlundt, Professor NTU, Singapore, Director of the GMI, Singapore

11:15 – 11:45 AM DISCUSSION ROUNDTABLE #4 (Speakers above, plus Dr. Marc Allard (FDA), Dr. Eric Brown (FDA), Dr. Jianghong Meng (UMD)

11:45 – 12:15 PM BREAK OUT SESSION SUMMARIES AND CHAIR REPORTS/NEXT STEPS

12:15 – 12:30 PM Closing remarks
Dr. Jianghong Meng and Dr. Eric Brown