

# DETAILED PROGRAM AGENDA

WEDNESDAY, APRIL 3, 2019

11:00 AM-5:30 PM	Registration	Constellation Ballroom Foyer
12:00-4:00 PM	Poster Set-Up	Constellation Ballroom Atrium
1:00-2:00 PM	<p><b>Welcome</b></p> <p>William Schaffner, MD Medical Director, National Foundation for Infectious Diseases</p> <p><b>Opening Keynote Presentation</b> Moderator: William Schaffner, MD</p> <p><b>Our Best Tool for Prevention, Our Only Tool for Eradication</b> Robert R. Redfield, MD Director, Centers for Disease Control and Prevention</p>	Constellation Ballroom CDEF
2:00-3:30 PM	<p><b>Rapidly Responding to Pathogen “X”</b></p> <p>Moderator: Kayvon Modjarrad, MD, PhD, Military HIV Research Program, Walter Reed Army Institute of Research</p>	Constellation Ballroom CDEF
2:00-2:20 PM	<p><b>Accelerated Development of Vaccines for Emerging Infections</b> Nicole Lurie, MD, MSPH Strategic Advisor to the CEO, Coalition for Epidemic Preparedness Initiatives</p>	
2:20-2:40 PM	<p><b>Vaccines to Tackle Drug-Resistant Infections</b> Elizabeth J. Klemm, PhD Program Officer, Wellcome Trust</p>	
2:40-3:00 PM	<p><b>Preparing for the Unknown: Steering Biomedical Research to Address Emerging Threats</b> Emily J. Erbedding, MD, MPH Director, Division of Microbiology and Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health</p>	
3:30-4:00 PM	Coffee Break	Constellation Ballroom Atrium
<b>CONCURRENT SYMPOSIA (4:00-5:30 PM)</b>		
4:00-5:30 PM	<p><b>Evolving Epidemiology of Invasive Pneumococcal Disease (IPD) in Post-PCV Era</b></p> <p>Moderator: Saad B. Omer, MBBS, MPH, PhD, Rollins School of Public Health, Emory Vaccine Center, Emory University</p>	Constellation Ballroom A
4:00-4:20 PM	<p><b>Breakthrough Invasive Pneumococcal Disease (IPD): Who &amp; Why?</b> Inci Yildirim, MD, PhD, MS Assistant Professor, Emory University School of Medicine</p>	
4:20-4:40 PM	<p><b>Recent Epidemiology of Pneumococcal Disease in Latin America</b> Edwin J. Asturias, MD Associate Professor of Pediatrics and Epidemiology, University of Colorado School of Medicine</p>	
4:40-5:00 PM	<p><b>Updates on Pneumococcal Disease Epidemiology and Vaccine Recommendations</b> Tamara Pilishvili, PhD, MPH Epidemiologist and Pneumococcal Program Lead, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention</p>	

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4:00-5:30 PM	<b>Vaccine Adverse Events</b> Moderator: Nicola P. Klein, MD, PhD, Director, Kaiser Permanente Vaccine Study Center, Kaiser Permanente Northern California  <b>Evaluating Suspected Adverse Reactions to Vaccines: From Bedside to the Lab</b> Buddy Creech, MD, MPH Director, Vanderbilt Vaccine Research Program, Vanderbilt University School of Medicine  <b>Fever &amp; Febrile Seizures After Measles Vaccines: Model to Investigate the Biology of Vaccine Adverse Events</b> Nicola P. Klein, MD, PhD  <b>Using Large Healthcare Databases to Look for Links between Vaccines &amp; Autoimmunity: Challenges &amp; Benefits</b> Frank DeStefano, MD, MPH Director, Immunization Safety Office, Centers for Disease Control and Prevention	Constellation Ballroom B
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## WELCOME RECEPTION & POSTER PRESENTATIONS (5:30-6:30 PM)

Constellation Ballroom Atrium

Poster details are available on page 21

# DETAILED PROGRAM AGENDA

**THURSDAY, APRIL 4, 2019**

<b>7:00 AM-5:30 PM</b>	Registration	Constellation Ballroom Foyer
<b>7:15-8:15 AM</b>	Richard J. Duma, MD, PhD, Meet the Experts Breakfast Session	Constellation Ballroom A
<b>7:15-8:15 AM</b>	Continental Breakfast & Poster Presentations	Constellation Ballroom Atrium
<b>8:30-9:30 AM</b>	<p><b>Mary Lou Clements-Mann Memorial Lecture in Vaccine Sciences</b></p> <p>Moderator: Walter A. Orenstein, MD, NFID Past-President, Emory Vaccine Center</p> <p><b>Reacquaintance with an Ancient Scourge: Typhoid Fever in the 21st Century</b>            Anita K. M. Zaidi, MBBS, SM            Director, Vaccine Development, Surveillance, and Enteric and Diarrheal Diseases            Co-Director, Maternal Newborn Child Health Discovery and Tools Program in            Global Health            Bill &amp; Melinda Gates Foundation</p>	Constellation Ballroom CDEF
<b>9:30-10:00 AM</b>	Coffee Break & Poster Presentations	Constellation Ballroom Atrium
<b>CONCURRENT SYMPOSIA (10:00-11:30 AM)</b>		
<b>10:00-11:30 AM</b>	<p><b>Structure-Guided Immunogen Design</b></p> <p>Moderator: Christopher L. Karp, MD, Bill &amp; Melinda Gates Foundation</p> <p>10:00-10:20 AM      <b>Design of Self-Assembling Nanoparticles for Tunable Immunogen Display and Adjuvant Delivery</b>            Karla-Luise Herpoldt, PhD            Senior Fellow, Institute for Protein Design, University of Washington</p> <p>10:20-10:40 AM      <b>Designing ENV Immunogens to Drive HIV bNAbs Induction</b>            William R. Schief, PhD            Professor, Department of Immunology and Microbiology, Scripps Research</p> <p>10:40-11:00 AM      <b>From Protective Monoclonals to Malaria Antigen Design</b>            Hedda Wardemann, PhD            Professor, German Cancer Research Center</p>	Constellation Ballroom A
<b>10:00-11:30 AM</b>	<p><b>Study Design: Statistical Challenges in Vaccinology</b></p> <p>Moderator: H. Keipp B. Talbot, MD, MPH, Vanderbilt University School of Medicine</p> <p>10:00-10:20 AM      <b>Leveraging Heterogeneity Across Datasets to Accelerate Translational Medicine</b>            Purvesh J. Khatri, PhD            Associate Professor (Research), Stanford University</p> <p>10:20-10:40 AM      <b>Statistical Analyses to Investigate Waning Immunity</b>            Joseph Lewnard, PhD            Assistant Professor, UC Berkeley</p> <p>10:40-11:00 AM      <b>Translating Individual-Level Vaccine Efficacy to Population-Level Vaccination Programs</b>            Alison Galvani, PhD            Burnett and Stender Families Professor of Epidemiology (Microbial Diseases)            and Professor of Ecology and Evolutionary Biology            Director of the Center for Infectious Disease Modeling and Analysis (CIDMA)            Yale School of Public Health</p>	Constellation Ballroom B
<b>11:30-11:45 AM</b>	Break	

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11:45 AM-1:15 PM	<p><b>NFID Luncheon</b> (details on pages 8-10)</p> <p>Moderator: William Schaffner, MD</p> <p><b>Robert Austrian Memorial Lecture—Pneumococcal Conjugate Vaccine: The Art and Science of Giving and Taking Away</b>            Monica M. Farley, MD            Professor of Medicine/Infectious Diseases and Director, Division of Infectious Diseases, Emory University School of Medicine</p> <p><b>Dr. Charles Mérieux Award Presentation for Achievement in Vaccinology and Immunology</b>            Alan R. Hinman, MD, MPH            Consulting Senior Advisor, Center for Vaccine Equity, Task Force for Global Health</p> <p><b>Maurice R. Hilleman Early-Stage Career Investigator Award Presentation</b></p>	Constellation Ballroom CDEF
1:15-1:30 PM	Break	

## CONCURRENT ORAL ABSTRACT PRESENTATIONS (1:30-2:30 PM)

1:30-2:30 PM	<p><b>Vaccine Development: Antibodies &amp; Immunity</b></p> <p>Moderator: Marion F. Gruber, PhD, US Food and Drug Administration</p>	Constellation Ballroom A
1:30-1:45 PM	<p><b>OA1-1 Combined Immunization with Human Cytomegalovirus Envelope Proteins Elicits Strong Synergistic Neutralizing Activity in Rabbits</b>            Xinle Cui, MD, PhD            Research Associate Professor, Uniformed Services University of Health Sciences</p>	
1:45-2:00 PM	<p><b>OA1-2 Developing Single Consensus and Mosaic Immunogens with Broad Protection Against Alphaviruses</b>            Catherine H. Schein, PhD            Adjunct Professor, University of Texas Medical Branch</p>	
2:00-2:15 PM	<p><b>OA1-3 Maternal Antibodies Elicited by Immunization with an O-polysaccharide Glycoconjugate Vaccine Protect Infant Mice Against Lethal <i>Salmonella</i> Typhimurium Infection</b>            Scott M. Baliban, PhD            Postdoctoral Fellow, Center for Vaccine Development &amp; Global Health, University of Maryland, School of Medicine</p>	
2:15-2:30 PM	<p><b>OA1-4 The Impact of Imprinting and Repeated Influenza Vaccination on Adaptive Immunity</b>            Amy C. Sherman, MD            Physician, Emory University</p>	
1:30-2:30 PM	<p><b>Vaccine Practice Across Settings: Looking Under the Coverage</b></p> <p>Moderator: Barbara Mahon, MD, MPH, Centers for Disease Control and Prevention</p>	Constellation Ballroom B
1:30-1:45 PM	<p><b>OA2-1 Comparisons of Vaccine Hesitancy in Five Countries</b>            Abram L. Wagner, PhD, MPH            Research Assistant Professor, University of Michigan</p>	
1:45-2:00 PM	<p><b>OA2-2 Improving Uptake of Maternal Immunizations in the Obstetric Care Setting Through an Adaptation of the CDC's Immunization Quality Improvement Program (AFIX)</b>            Mallory K. Ellingson, MPH            Public Health Program Associate, Hubert Department of Global Health, Rollins School of Public Health, Emory University</p>	

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2:00-2:15 PM	<p><b>OA2-3 Policy Changes in Vaccine Exemptions in the United States May Shape Herd Immunity</b>  Romain Garnier, PhD, DVM  Postdoctoral Fellow, Georgetown University</p>	
2:15-2:30 PM	<p><b>OA2-4 Cluster Anxiety-Related Adverse Events Following Immunization (AEFI): An Assessment of Reports Detected in Social Media and Those Identified Using an Online Search Engine</b>  Tiffany A. Suragh, MPH  Health Scientist, Centers for Disease Control and Prevention, Atlanta, GA</p>	
<b>2:30-2:45 PM</b>	Coffee Break	Constellation Ballroom Atrium

## CONCURRENT ORAL ABSTRACT PRESENTATIONS (2:45-3:45 PM)

<b>CONCURRENT ORAL ABSTRACT PRESENTATIONS (2:45-3:45 PM)</b>		
<b>2:45-3:45 PM</b>	<p><b>Novel Vaccine Delivery Mechanisms</b>  Moderator: Nicola P. Klein, MD, PhD, Kaiser Permanente Northern California</p>	Constellation Ballroom A
2:45-3:00 PM	<p><b>OA3-1 Attenuated <i>Salmonella</i> Typhimurium as a Vector for a Novel <i>Clostridioides difficile</i> Vaccine</b>  Kaitlin Winter, BS  PhD Candidate, McGill University</p>	
3:00-3:15 PM	<p><b>OA3-2 Co-Administration of IPV and IRV Using a Microneedle Skin Patch: Proof of Concept in Animals</b>  Baoming Jiang, DVM  Team Lead, Centers for Disease Control and Prevention</p>	
3:15-3:30 PM	<p><b>OA3-3 Intradermal Delivery of GLS-5700, a Synthetic DNA Vaccine Against Zika Virus, Induces Robust Antibody and T Cell Immunity in Humans that Is Maintained for Over One Year</b>  Emma L. Reuschel, PhD  Postdoctoral Fellow, The Wistar Institute</p>	
3:30-3:45 PM	<p><b>OA3-4 Needle-Free Delivery of Influenza Vaccine Using the Med-Jet® H4 is Efficient and Elicits the Same Humoral and Cellular Responses as Standard IM Injection: A Randomized Trial</b>  Janna R. Shapiro, MS  PhD Student, McGill University</p>	
<b>2:45-3:45 PM</b>	<p><b>Respiratory Viruses: Epidemiology &amp; Effects of Vaccination</b>  Moderator: Daniel B. Jernigan, MD, MPH, Centers for Disease Control and Prevention</p>	Constellation Ballroom B
2:45-3:00 PM	<p><b>OA4-1 Comparison of Single-Virus Detection vs. Co-Detection in Children with Acute Respiratory Illnesses</b>  Jyotsna Thota  Medical Student, Vanderbilt University Medical Center</p>	
3:00-3:15 PM	<p><b>OA4-2 Comparison of Vaccine Effectiveness Against Influenza Hospitalization of Cell-Based and Egg-Based Influenza Vaccines, 2017-2018</b>  Katia J. Bruxvoort, PhD, MPH  Post-Doctoral Research Fellow, Department of Research &amp; Evaluation, Kaiser Permanente Southern California</p>	
3:15-3:30 PM	<p><b>OA4-3 Evaluation of Moderate-to-Severe Influenza Disease in Children 6 Months to 8 Years of Age in Colorado</b>  Suchitra Rao, MBBS  Assistant Professor, University of Colorado School of Medicine</p>	

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3:30-3:45 PM	<p><b>OA4-4 Unraveling the Emergence of a Unique Variant in the Live Oral Adenovirus Vaccine and the Effect on Vaccine Phenotype</b>            Natalie D. Collins, PhD            Chief of Diagnostics and Clinical Readouts, Walter Reed Army Institute of Research</p>	
3:45-4:00 PM	Coffee Break	Constellation Ballroom Atrium
4:00-5:00 PM	<p><b>Panel Discussion: Recognizing Women in Vaccinology</b>            Moderator: H. Keipp B. Talbot, MD, MPH, Vanderbilt University School of Medicine</p> <p><b>Kathryn M. Edwards, MD</b>            Sarah H. Sell and Cornelius Vanderbilt Chair in Pediatrics; Professor of Pediatrics            Director, Vanderbilt Vaccine Research Program, Vanderbilt University School of Medicine</p> <p><b>Julie L. Gerberding, MD, MPH</b>            Executive Vice President and Chief Patient Officer, Strategic Communications, Global Public Policy, and Population Health, Merck &amp; Co., Inc.</p> <p><b>Anne Schuchat, MD (RADM, USPHS, RET)</b>            Principal Deputy Director, Centers for Disease Control and Prevention</p> <p><b>Anita K. M. Zaidi, MBBS, SM</b>            Director, Vaccine Development, Surveillance, and Enteric and Diarrheal Diseases            Co-Director, Maternal Newborn Child Health Discovery and Tools Program in Global Health, Bill &amp; Melinda Gates Foundation</p>	Constellation Ballroom CDEF

## RECOGNIZING WOMEN IN VACCINOLOGY RECEPTION (5:30-7:30 PM)

Pisces (Rooftop)

# DETAILED PROGRAM AGENDA

**FRIDAY, APRIL 5, 2019**

<b>7:00 AM-2:30 PM</b>	Registration	Constellation Ballroom Foyer
<b>7:15-8:15 AM</b>	Continental Breakfast & Poster Presentations	Constellation Ballroom Atrium
<b>7:15-8:15 AM</b>	<p><b>Career Development Workshop</b></p> <p><b>Kathryn M. Edwards, MD</b> Sarah H. Sell and Cornelius Vanderbilt Chair in Pediatrics; Professor of Pediatrics; Director, Vanderbilt Vaccine Research Program Vanderbilt University School of Medicine</p> <p><b>Leonard Friedland, MD</b> Vice President, Scientific Affairs and Public Health, GSK Vaccines</p> <p><b>Barbara Mahon, MD, MPH (Moderator)</b> Director, Division of Bacterial Diseases, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention</p> <p><b>Kayvon Modjarrad, MD, PhD</b> Director, Emerging Infectious Diseases Branch, Military HIV Research Program, Walter Reed Army Institute of Research</p> <p><b>Kathleen M. Neuzil, MD, MPH</b> Director, Center for Vaccine Development and Global Health University of Maryland School of Medicine</p>	Constellation Ballroom CD
<b>CONCURRENT SYMPOSIA (8:30-10:00 AM)</b>		
<b>8:30-10:00 AM</b>	<p><b>Controlled Human Challenge Model: Influenza Case Study</b> Moderator: Kathleen M. Neuzil, MD, MPH</p> <p><b>The Controlled Human Challenge Model For Influenza: What Can We Learn From Past Experience?</b> John J. Treanor, MD Professor Emeritus, University of Rochester Medical Center</p> <p><b>Healthy Volunteer Challenge Models with Wild-Type Influenza Virus: Current Status, Opportunities, and Limitations</b> Matthew J. Memoli, MD, MS Director, Laboratory of Infectious Diseases Clinical Studies Unit, Viral Pathogenesis &amp; Evolution Section, National Institutes of Allergy and Infectious Diseases, National Institutes of Health</p> <p><b>The Ethical Imperative for Conducting Human Challenge Studies</b> Claudia Emerson, MA, PhD Director, Institute on Ethics &amp; Policy for Innovation, McMaster University</p> <p><b>Role of Human Challenge Studies in Development of Novel Influenza Vaccines</b> Daniel Hoft, MD, PhD Director, Division of Infectious Diseases, Allergy &amp; Immunology, Saint Louis University</p>	Constellation Ballroom A

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8:30-10:00 AM	<p><b>Communications &amp; Vaccine Hesitancy</b></p> <p>Moderator: Saad B. Omer, MBBS, MPH, PhD</p>	Constellation Ballroom B
8:30-8:50 AM	<p><b>Social Media &amp; Vaccines: From Disease to Disinformation</b></p> <p>David A. Broniatowski, PhD Assistant Professor, The George Washington University</p>	
8:50-9:10 AM	<p><b>Why Parents Fear Vaccines</b></p> <p>Tara S. Haelle, MA Independent Journalist</p>	
9:10-9:30 AM	<p><b>Improving Confidence in the Influenza Vaccine among Adults</b></p> <p>Sandra C. Quinn, PhD Professor and Chair, Family Science, University of Maryland School of Public Health</p>	
10:00-10:30 AM	Coffee Break & Poster Presentations	Constellation Ballroom Atrium
<b>CONCURRENT SYMPOSIA (10:30 AM-12:00 PM)</b>		
10:30 AM-12:00 PM	<p><b>Defining Correlates of Protection</b></p> <p>Moderator: Christopher L. Karp, MD</p>	Constellation Ballroom A
10:30-10:50 AM	<p><b>Systems Serology to Define Vaccine Induced Correlates of Protection</b></p> <p>Galit Alter, PhD Associate Professor of Medicine, Ragon Institute of MGH, MIT and Harvard</p>	
10:50-11:10 AM	<p><b>Assessing the Efficacy of a Typhoid Conjugate Vaccine Through Use of a Controlled Human Infection Model and Beyond</b></p> <p>Andrew J. Pollard, MBBS, PhD Professor of Paediatric Infection and Immunity, University of Oxford</p>	
11:10-11:30 AM	<p><b>Defining Correlates of Protection in Malaria</b></p> <p>Georgia D. Tomaras, PhD Professor in Surgery, Duke University School of Medicine</p>	
11:30-11:50 AM	<p><b>Qualification of Biomarkers/Drug Development Tools To Advance Vaccine Development &amp; Licensure</b></p> <p>Sarah K. Browne, MD Senior Advisor-Clinical, Division of Vaccines and Related Product Applications, Office of Vaccines Research and Review, Center for Biologics Evaluation and Research, Food and Drug Administration</p>	
10:30 AM-12:00 PM	<p><b>Flavivirus Vaccine Updates: Zika, Yellow Fever, Dengue, &amp; Other Neglected Tropical Diseases</b></p> <p>Moderator: Cristina Cassetti, PhD, National Institute for Allergy and Infectious Diseases, National Institutes of Health</p>	Constellation Ballroom B
10:30-10:50 AM	<p><b>Dengue Vaccine Developments: What Have We Learned &amp; How Do We Move Forward</b></p> <p>Anna P. Durbin, MD Professor, International Health, Johns Hopkins Bloomberg School of Public Health</p>	
10:50-11:10 AM	<p><b>Tick-Borne Encephalitis Vaccines</b></p> <p>Michael Holbrook, PhD Research Leader, Battelle Memorial Institute; High Containment Supervisor, Integrated Research Facility, National Institutes of Allergy and Infectious Diseases, National Institutes of Health</p>	

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11:10-11:30 AM	<b>Yellow Fever Virus Re-Emergence &amp; International Vaccine Efforts</b> Alan D.T. Barrett, PhD Director, Sealy Institute for Vaccine Sciences, University of Texas Medical Branch	
11:30-11:50 AM	<b>Zika Vaccine Developments: Current Strategies &amp; Challenges</b> Kayvon Modjarrad, MD, PhD	
<b>LUNCH (ON YOUR OWN)</b>		
1:00-2:30 PM	<b>Role of Research in Vaccine Policy</b> Moderator: Walter A. Orenstein, MD	Constellation Ballroom CDEF
1:00-1:20 PM	<b>Herpes Zoster Vaccine: Pathway to a (Preferential) Recommendation</b> Edward A. Belongia, MD Director, Center for Clinical Epidemiology & Population Health, Marshfield Clinic Research Institute	
1:20-1:40 PM	<b>Using Research to Guide Influenza Vaccine Policy</b> Kathryn M. Edwards, MD	
1:40-2:00 PM	<b>Polio Eradication Efforts After 31 Years—Lessons Learned Including the Critical Role of Research</b> Walter A. Orenstein, MD	
2:30 PM-3:45 PM	<b>Closing Session: Vaccines in the Pipeline to Combat Antimicrobial Resistance (non-CME)</b> Moderator: Phyllis Arthur, MBA, Vice President, Infectious Diseases & Diagnostics Policy, Biotechnology Innovation Organization (BIO)	Constellation Ballroom CDEF
2:30-2:45 PM	<b>A Cross-Kingdom Vaccine Against <i>Candida</i> and <i>Staphylococcus aureus</i></b> Timothy Cooke, PhD Chief Executive Officer, NovaDigm Therapeutics	
2:45-3:00 PM	<b>A Pathway to Prevent <i>C. difficile</i> Infections via a Vaccine</b> Michael W. Pride, PhD Executive Director for Clinical and Diagnostic Assays, Vaccine Research and Development Unit, Pfizer Inc.	
3:00-3:15 PM	<b>mAbs Against Serious <i>Pseudomonas aeruginosa</i> Infections: Are We Ready for a Paradigm Change?</b> Hasan S. Jafri, MD Senior Director, Clinical Research and Development, Infectious Disease & Vaccines, MedImmune	