

Understanding the Introduction of Pathogens into Humans- Preventing Patient Zero

A Workshop

January 15-16, 2025

Day 1: 9:00 am – 5:30 pm ET

Day 2: 9:00 am – 12:45 pm ET

Virtual webcast or in person at the NAS Building | Washington, DC | NAS 120

Day 1	
9:00 – 9:15 am	<p>Welcome remarks, workshop overview, and goals</p> <p>Daniel Bausch, National University of Singapore <i>Co-Chair, Workshop Planning Committee</i></p> <p>Sumiko Mekaru, Epivoyant, LLC <i>Co-Chair, Workshop Planning Committee</i></p>
9:15 – 11:00 am	<p>Session 1: Pathogen introduction into humans</p> <p>Moderator: Cristina Cassetti, National Institutes of Health</p> <p>Pathogen exposures from wildlife Raina Plowright, Cornell University</p> <p>Pathogen exposures from farming and agriculture Charles Bebay, Food and Agriculture Organization</p> <p>Pathogen exposure in laboratory settings Luis Ochoa Carrera, Global Health Security Fund; PandemicTech</p> <p>Intentional release and biosecurity Paul Friedrichs, Office of Pandemic Preparedness and Response Policy</p> <p>Q&A</p>
11:00 – 11:15 am	BREAK

<p>11:15 am – 12:45 pm</p>	<p>Session 2: Pathogen amplification and dissemination</p> <p>Moderator: Keith Klugman, Bill & Melinda Gates Foundation</p> <p>Systems-level effects on pathogen dynamics and spillover: Case studies from the hemorrhagic fever viruses Vincent Munster, National Institutes of Health</p> <p>Amplification in secondary hosts Richard Webby, World Health Organization Collaborating Centre for Studies on the Ecology of Influenza in Animals and Birds</p> <p>Amplification in health care settings Mary Choi, US Centers for Disease Control and Prevention</p> <p>Overcoming blind spots in pathogen detection Erik Karlsson, Institut Pasteur du Cambodge</p> <p>Q&A</p>
<p>12:45 – 1:45 pm</p>	<p>LUNCH</p>
<p>1:45 – 3:30 pm</p>	<p>Session 3: Forecasting, surveillance and early warning – panel discussion</p> <p>Moderator: Sumiko Mekaru, Epivoyant LLC <i>Co-Chair, Workshop Planning Committee</i></p> <p>Panelists: Barbara Han, Cary Institute of Ecosystem Studies Lauren Charles, Pacific Northwest National Laboratory Marc Lipsitch, Harvard University Aparupa Sengupta, NTI</p> <p>Q&A</p>
<p>3:30 – 3:45 pm</p>	<p>BREAK</p>

<p>3:45 – 5:30 pm</p>	<p>Session 4: Interventions for prevention and mitigation</p> <p>Moderator: Andrew Clements, US Agency for International Development</p> <p>Societal framing for behavioral interventions Emily Gurley, Johns Hopkins University</p> <p>Diagnostics for early warning Emmanuel Agogo, FIND</p> <p>Nature-based solutions Jamie Reaser, Smithsonian Institution</p> <p>Mitigation of risks in agricultural settings David Swayne, Birdflu Veterinarian LLC</p> <p>Laboratory biosafety and biosecurity Gigi Gronvall, Johns Hopkins University</p> <p>Q&A</p>
<p>5:30 – 5:45 pm</p>	<p>Synthesis and Adjourn</p> <p>Sumiko Mekaru, Epivoyant, LLC <i>Co-Chair, Workshop Planning Committee</i></p>
<p>END OF DAY 1</p>	

Day 2	
9:00 – 9:15 am	<p>Welcome remarks, review of day 1</p> <p>Daniel Bausch, National University of Singapore <i>Co-Chair, Workshop Planning Committee</i></p> <p>Sumiko Mekaru, Epivoyant, LLC <i>Co-Chair, Workshop Planning Committee</i></p>
9:15 – 10:45 am	<p>Session 5: Legal, ethical, and policy considerations – panel discussion</p> <p>Moderator: Carla Saenz, Pan American Health Organization</p> <p>Panelists: Alex Phelan, Johns Hopkins Center for Health Security Jennifer Nuzzo, Brown University Pandemic Center Fifa Rahman, Matahari Global Solutions Colin McIlff, US Department of Health and Human Services</p> <p>Q&A</p>
10:45 – 11:00 am	BREAK
11:00 am – 12:30 pm	<p>Session 6: Next steps in disease mitigation</p> <p>Moderator: Daniel Bausch, National University of Singapore <i>Co-Chair, Workshop Planning Committee</i></p> <p>Panelists: Sumiko Mekaru, Epivoyant, LLC Jonathan Sleeman, US Geological Survey Matiangai Sirleaf, University of Maryland Kevin Anderson, Department of Homeland Security (retired)</p> <p>Q&A</p>
12:30 – 12:45 pm	<p>Synthesis and Close</p> <p>Daniel Bausch, National University of Singapore <i>Co-Chair, Workshop Planning Committee</i></p>
END OF WORKSHOP	

