

Toward a Common Research Agenda in Infection-Associated Chronic Illnesses

A Workshop to Examine Common, Overlapping Clinical and Biological Factors

June 29-30, 2023

8:30 AM – 5:00 PM ET

Virtual webcast or in person at the Keck Center | 500 5th St NW, Washington D.C. | Room 100

Day 1: Mechanisms underlying infection-associated chronic illnesses

8:30-8:45 am	<p>Welcome remarks, workshop overview, and goals</p> <p>Welcome Peter Daszak, EcoHealth Alliance <i>Chair, Forum on Microbial Threats</i> John Krystal, Yale University <i>Co-Chair, Forum on Neuroscience and Nervous System Disorders</i></p> <p>Introduction and workshop overview Tim Coetzee, National Multiple Sclerosis Society <i>Workshop co-chair</i></p> <p>Sponsor perspectives Lyle Petersen, US Centers for Disease Control and Prevention Ben Nemser, Steven & Alexandra Cohen Foundation</p>
8:45-10:00 am	<p>Session 1: Introduction to infection-associated chronic illnesses</p> <p>Moderator: Rafael Obregon, UNICEF</p> <p>Keynote Tim Henrich, University of California, San Francisco</p> <p>Introduction and a historical perspective Anthony Komaroff, Harvard Medical School; Brigham and Women's Hospital</p> <p>Stakeholder perspectives Joseph Breen, National Institutes of Health (NIH) RECOVER Harlan Krumholz, Yale School of Medicine Hannah Davis, Patient-Led Research Collaborative Meghan O'Rourke, Yale University <i>Author of The Invisible Kingdom: Reimagining Chronic Illness</i></p> <p>Q&A</p>

10:00-10:15 am	BREAK
10:15 am-12:00 pm	<p>Session 2: Common mechanistic factors of infection-associated chronic illnesses</p> <p>Host mediated factors (part 1)</p> <p>Moderator: Peter Rowe, Johns Hopkins University</p> <p><u><i>Immune Dysfunction</i></u></p> <p>Post COVID syndrome and myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS): evidence for a role of autoantibodies and endothelial dysfunction and development of targeted therapies</p> <p>Carmen Scheibenbogen, Charité University</p> <p>Viral reactivation</p> <p>Michael Peluso, University of California, San Francisco</p> <p><u><i>Autonomic Dysfunction</i></u></p> <p>Overview of orthostatic intolerance: risk factors and treatments</p> <p>Satish Raj, University of Calgary</p> <p>Common underlying mechanisms of chronic illness: Lessons from postural orthostatic tachycardia syndrome (POTS), ME/CFS, and Long COVID</p> <p>Mitchell Miglis, Stanford University</p> <p>Q&A</p>
12:00-1:00 pm	LUNCH
1:00 pm-3:00 pm	<p>Session 3: Common mechanistic factors of infection-associated chronic illnesses</p> <p>Host mediated factors (part 2)</p> <p>Moderator: Brian Fallon, Columbia University</p> <p>Impact of inflammation on the brain: significance for chronic illnesses</p> <p>Andrew Miller, Emory University</p> <p>Role of the microbiome in ME/CFS</p> <p>Julia Oh, The Jackson Laboratory</p> <p>Pathogen mediated factors and pathogen persistence</p>

	<p>Viral persistence and development of chronic illness: lessons from Epstein-Barr virus (EBV) Bill Robinson, Stanford University</p> <p>Pathogen distribution and persistence: learnings from SARS-CoV-2 Dan Chertow, NIH</p> <p>Modeling pathogen persistence: lessons from animal studies Monica Embers, Tulane University</p> <p>Q&A</p>
3:00-3:15	BREAK
3:15-4:45	<p>Session 4: Future opportunities and research priorities in diagnostics</p> <p>Moderator: Avindra Nath, National Institute of Neurological Disorders and Stroke (NINDS), NIH</p> <p>Biomarkers for Lyme disease and post-treatment Lyme John Aucott, Johns Hopkins University</p> <p>Biomarkers for EBV and associations with multiple sclerosis (MS) Alberto Ascherio, Harvard T.H Chan School of Public Health</p> <p>Microclots as a common indicator of chronic disease Resia Pretorius, Stellenbosch University</p> <p>Next-generation and metagenomic sequencing Charles Chiu, University of California, San Francisco</p> <p>Q&A</p>
4:45-5:00	<p>Synthesis and adjourn</p> <p>Amy Proal, PolyBio Research Foundation</p>
END OF DAY 1	

Day 2: Clinical Advancements and Collaboration	
8:30-9:00 am	<p>Welcome remarks, review of day 1</p> <p>Welcome and introduction Tim Endy, Coalition for Epidemic Preparedness Innovations (CEPI) <i>Workshop co-chair</i></p> <p>Keynote Hilary Marston <i>Chief Medical Officer, U.S. Food and Drug Administration</i></p> <p>Q&A</p>
9:00-10:15 am	<p>Session 5: Patient driven research panel</p> <p>Moderator: Liz Horn, Lyme Disease Biobank</p> <p>Panel: Lisa McCorkell, Patient-Led Research Collaborative Oved Amitay, Solve ME/CFS Lorraine Johnson, MyLymeData Liz Horn, Lyme Disease Biobank</p> <p>Q&A</p>
10:15-10:30 am	BREAK
10:30 am -12:00 pm	<p>Session 6: Research innovation and required infrastructures</p> <p>Moderator: Tim Endy, CEPI</p> <p>Diagnostic journeys of Long COVID patients Linda Geng, Stanford University</p> <p>Ultrasensitive diagnostic assays: examples with SARS-CoV-2 and Long COVID David Walt, Harvard University</p> <p>Translating infection-associated chronic illnesses research into the clinic in drug repurposing Steven Deeks, University of California, San Francisco</p> <p>Treatment approaches to post-treatment Lyme disease and a new clinical trials network Brian Fallon, Columbia University</p> <p>Q&A</p>

12:00-1:00 pm	LUNCH
1:00-2:45 pm	<p>Session 7: Future opportunities and research priorities in therapeutics</p> <p>Moderator: Tim Coetzee, National Multiple Sclerosis Society</p> <p>Development of Oral Antiviral for COVID-19 Ravi Shankar Singh, Pfizer</p> <p>Development of antivirals and combination therapies for infection-associated chronic illnesses Sara Cherry, University of Pennsylvania</p> <p>Clinical trials for multisystem inflammatory syndrome in children (MIS-C) and Long COVID Alessio Fasano, Harvard University</p> <p>Long Lyme: opportunities for prevention and treatment Kim Lewis, Northeastern University</p> <p>Clinical care for patients of various infection-associated chronic illnesses David Putrino, Mount Sinai Health System</p> <p>Q&A</p>
2:45-3:50 pm	<p>Session 8: Developing a shared research agenda: challenges and opportunities</p> <p>Moderators: Avindra Nath, NINDS, NIH Amy Proal, PolyBio Research Foundation Lorraine Johnson, MyLymeData Peter Rowe, Johns Hopkins University</p> <p>Q&A</p>
3:50-4:00 pm	<p>Synthesis and close</p> <p>Tim Endy, CEPI Tim Coetzee, National Multiple Sclerosis Society <i>Workshop co-chairs</i></p>
END OF WORKSHOP	

