



Rub Some DIRT In It: An Immune Dysregulation Approach to Infection

Wednesday, April 30, 2025

Leonard and Madlyn Abramson Pediatric Research Center

Learn more: chop.cloud-cme.com



Course Overview

This symposium hosted by the CHOP Multidisciplinary Immune Dysregulation Team is intended for clinicians, researchers, and those who care for patients with complex multiorgan immune disease. It precedes the Clinical Immunology Society meeting in Philadelphia to synergize with common activities and themes. This symposium will explore the immune dysregulation driven by infection. The symposium will review knowledge on disease pathogenesis and best practices for therapeutics. The event will include cutting-edge talks, a debate on therapeutic decision-making, provocative cases and more.

Course Objectives

- Describe treatment approaches for immune dysregulation conditions
- Discuss interactions between pathogens and host responses that drive immune dysregulation
- Review organ system involvement in immune dysregulation

General Information

Attendees have the option of attending the hybrid conference at Children's Hospital of Philadelphia or virtually.

Registration is Free

In-person registration includes continental breakfast and lunch and course materials.

Hotel Accommodations

A block of rooms has been reserved at reduced rates at The Study, located just a few blocks from Children's Hospital. The group overnight rate is \$239 single and double occupancy plus a 16.25% room tax. Participants are required to make their own hotel reservations by calling The Study directly at 215-387-1400. Please mention the name of the conference when making your reservation. The special room rate will be available until March 28, 2025. After that date, reservations will be accepted on a space and rate availability basis.

Cancellation Policy

Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. Cancellations must be received in writing by Friday, April 18, 2025.

Register now: chop.cloud-cme.com

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PROGRAM

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8:00 a.m. Breakfast and Registration

Session I: Viruses

Moderators: Hana Conlon, CRNP & Elise Breed, MD, PhD

8:30 a.m. Complement Dysfunction Correlates with Pediatric Severe Dengue
Edward M. Behrens, MD

8:50 a.m. Influenza Virus Immunity
Scott Hensley, PhD

9:10 a.m. KEYNOTE: EBV and Immune Dysregulation: Damage from Friendly Fire
Jeffrey I. Cohen, MD

9:45 a.m. Break

Session II: Host Responses

Moderator: Laura Vella, MD, PhD

10:05 a.m. KEYNOTE: The Perils and Pitfalls of Advanced HIV Disease:
From Bedside to Bench
Irini Sereti, MD, PhD

10:40 a.m. Leveraging Early-life Commensal Microbes to Improve Immune Health
Michael Silverman, MD, PhD

11:00 a.m. A Novel Hyperferritinemia Screen to Aid Differentiation of
Hyperinflammatory Disorders
Hallie Carol, MD

11:20 a.m. Sepsis Heterogeneity: Risk Stratification and Precision Therapeutic
Brad Lindell, MD

11:40 a.m. KEYNOTE: Modulating Type 2 Immune Dysregulation to Treat Infections
Manish Butte, MD, PhD

12:15 p.m. Lunch

Session III: The OTHER Intracellular Pathogens

Moderators: *Whitney L. Petrosa, CRNP & Dorottya Laczko, MD, PhD*

- 1:05 p.m.** **Out of the Mouths of Babes: “Breath-omics” to Interrogate Pediatric Health and Disease**
Audrey R. Odom John, MD, PhD
- 1:20 p.m.** **Recognizing the Importance of Host-Microbe Interface with I2DRI**
Audrey R. Odom John, MD, PhD
- Cases with Discussion of Diagnostics**
Moderator: Hamid Bassiri, MD, PhD
- 1:35 p.m.** **Adults DIRT too – Lessons from a Difficult Case of Systemic Inflammation**
Jonathan Kotzin, MD
- 1:55 p.m.** **Fever of Unknown Origin: A Case that Breaks the Mold**
Adam Mayer, MD
- 2:15 p.m.** **Ticked Off: The Unexpected Journey to Immune Overdrive**
Vinchelle Hardison, MD
- 2:35 p.m.** **Break**
- 2:50 p.m.** **Debate: Next Generation Sequencing in Infection Diagnosis**
Paul J. Planet, MD, PhD; Brian T. Fisher, DO MSCE, MPH
- 3:35 p.m.** **KEYNOTE: Long-term Consequences of Parainfluenza Virus Infection**
Carolina Lopez, PhD
- 4:25 p.m.** **Closing Remarks**
Edward M. Behrens, MD



Unless otherwise noted, faculty is from the Children's Hospital of Philadelphia and/or the Perelman School of Medicine at the University of Pennsylvania.

FACULTY

Course Planners

Hamid Bassiri, MD, PhD

Co-Director, Immune Dysregulation Frontier Program

Assistant Program Director, Pediatric Infectious Diseases Fellowship

Associate Professor of Pediatrics

Edward M. Behrens, MD

Director, Immune Dysregulation Frontier Program

Division Chief, Pediatric Rheumatology

Attending Physician, Division of Rheumatology

Associate Professor of Pediatrics

Scott W. Canna, MD

Attending Physician, Division of Rheumatology

Assistant Professor of Pediatrics

Hana O. Conlon, CRNP

Nurse Practitioner, Immune Dysregulation Frontier Program

Michele P. Lambert, MD, MSTR

Co-Director, Immune Dysregulation Frontier Program

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Course Faculty

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T32 Trainee

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Professor of Microbiology

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Stanley Plotkin Endowed Chair in Pediatric Infectious Diseases

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Co-Director, Center for Microbial Medicine

Co-Director, Microbial Archive and Cryo-collection Attending Physician, Division of Infectious Diseases

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Assistant Professor of Pediatrics

Laura Vella, MD, PhD

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Guest Faculty

Manish Butte, MD, PhD

*Chief, Division of Immunology, Allergy, and Rheumatology
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Jeffrey I. Cohen, MD

Chief, Laboratory of Infectious Diseases, NIAID, NIH, (Bethesda, Maryland)

Carolina Lopez, PhD

Professor of Environmental Medicine and BJC Investigator, Department of Molecular Microbiology Washington University School of Medicine, St. Louis

Irini Sereti, MD, PhD

*Chief of Laboratory of Immunoregulation and Infectious Diseases
Senior Investigator and Chief of HIV Pathogenesis Section, NIAID/NIH,
(Bethesda, Maryland)*



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