

# Going Down the DIRT Path: From Mechanism to Treatment of Immune Dysregulation

Friday, June 7, 2024

The HUB for Clinical Collaboration



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## OVERVIEW

A symposium hosted by the CHOP Multidisciplinary Immune Dysregulation Team for clinicians, researchers, and those who care for patients with complex multiorgan immune disease. We will explore the pathway approach from mechanism to treatment of immune dysregulation. The event will include cutting-edge talks, a debate on therapeutic decision-making, provocative cases, and more.

In this full-day hybrid seminar, attendees will gain an understanding of:

- Treatment approaches for immune dysregulation conditions
- How to utilize pathways as a foundation for clinical care
- 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

[www.chop.edu/immune-2024](http://www.chop.edu/immune-2024)

In-person registration includes continental breakfast, lunch and breaks.



## 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 \$259 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 Monday, May 6, 2024. 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, May 31, 2024.



## PROGRAM | Friday, June 7, 2024

- 8 a.m. Breakfast and Registration
- SESSION 1: TYPE 1 INTERFERONS**  
*Moderator: Michele P. Lambert, MD, MSTR*
- 8:30 a.m. Empiric JAK Inhibition in Inflammation NOS  
*Whitney L. Petrosa, CRNP*
- 8:50 a.m. Translational Therapeutics in Aicardi Goutières Syndrome, a Heritable Interferonopathy  
*Adeline Vanderver, MD*
- 9:25 a.m. DNA Damage and Inflamm-aging in Retinal Vasculopathy with Cerebral Leukoencephalopathy  
*Jonathan Miner, MD*
- 10 a.m. **KEYNOTE Lecture**  
The Invitation to the Inflammation Party: The Role of Type I Interferons in Hemophagocytic Lymphohistiocytosis (HLH)  
*Melissa Hines, MD*
- 10:50 a.m. BREAK
- SESSION 2: INTERLEUKIN-18/INTERLEUKIN-1B**  
*Moderator: Scott W. Canna, MD*
- 11:15 a.m. If at First You Don't Succeed Try, Try Again: MAS825 in Refractory sJIA  
*Hana O. Conlon, CRNP*
- 11:30 a.m. Differences in Mouse and Human Inflammasome Responses to Infection  
*Sunny Shin, PhD*
- 12:05 p.m. Anakinra-Associated Amyloidosis  
*Sara Alehashemi, MD, MPH*
- 12:25 p.m. **KEYNOTE Lecture**  
Old and New Approaches to Targeting NLRP3 Mediated Diseases  
*Hal M. Hoffman, MD*
- 1:15 p.m. LUNCH

## **SESSION 3: HEMOPHAGOCYTTIC LYMPHOHISTIOCYTOSIS (HLH)**

*Moderator: Hamid Bassiri, MD, PhD*

- 2:20 p.m.     **Fellow Case: A Case of HLH Due to UNC13D Deficiency**  
*Andrew Hughes, MD, PhD*
- 2:40 p.m.     **Fellow Case: Journey to Remission: Conquering Refractory sJIA with Emapalumab**  
*Brittney Newby, MD, PhD*
- 3 p.m.         **HLH Debate – Treatment by Protocol, by Pathway, by Presentation**  
*Susan McClory, MD, PhD; Edward M. Behrens, MD; Neil D. Romberg, MD*
- 4:05 p.m.     **KEYNOTE Lecture**  
**Interferon Regulation of Inflammatory Cytokine Responses**  
*Lionel Ivashkiv, MD*
- 4:50 p.m.     **Closing Remarks**  
*Edward M. Behrens, MD*



Unless otherwise noted, faculty is from 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*

*Medical Director, Special Coagulation Laboratory, Department of Pathology and Laboratory Medicine*

*Attending Physician, Division of Hematology*

*Associate Professor of Pediatrics*

#### **Whitney L. Petrosa, CRNP**

*Nurse Practitioner, Immune Dysregulation Frontier Program*

#### **Kathleen E. Sullivan, MD, PhD**

*Co-Director, Immune Dysregulation Frontier Program*

*Division Chief, Allergy and Immunology*

*Attending Physician, Division of Immunology*

*Professor of Pediatrics*

#### **David T. Teachey, MD**

*Co-Director, Immune Dysregulation Frontier Program*

*Attending Physician, Division of Oncology*

*Associate Professor of Pediatrics*



## Course Faculty

**Andrew Hughes, MD, PhD**

*Fellow, Divisions of Hematology/Oncology*

**Susan McClory, MD, PhD**

*Fellow, Division of Oncology*

**Brittney Newby, MD, PhD**

*Fellow, Division of Rheumatology*

**Neil D. Romberg, MD**

*Attending Physician, Division of Allergy and Immunology*

*Associate Professor of Pediatrics*

**Adeline Vanderver, MD**

*Director of the Leukodystrophy Center*

*Professor of Neurology*

## Guest Faculty

**Sara Alehashemi, MD, MPH**

*Rheumatologist in Translational Autoinflammatory Diseases Section at  
National Institute of Allergy and Infectious Disease*

**Melissa Hines, MD**

*Director, Histiocytosis and Immune Dysregulation Treatment Team  
Associate Member (Professor), Division of Critical Care*

*St Jude Children's Research Hospital*

**Hal M. Hoffman, MD**

*Chief of the Division of Allergy, Immunology and Rheumatology in the  
Department of Pediatrics*

*Rady Children's Hospital*

*Professor of Pediatrics and Medicine*

*University of California San Diego*

**Lionel Ivashkiv, MD**

*Chief Scientific Officer at Hospital for Special Surgery*

*Professor of Medicine and Immunology*

*Weill Cornell (New York City) Medicine*

**Jonathan Miner, MD**

*Associate Professor of Medicine, Penn Institute for Immunology*

**Sunny Shin, PhD**

*Professor of Microbiology, Penn Institute for Immunology*