



CIS/AAAAI Diagnostic School in Primary Immunodeficiencies School Agenda

Dates: June 28-July 1, 2018

**Location: Cincinnati Children's Hospital Medical Center
Cincinnati, OH**

Co-Chairs:

Roshini Abraham, PhD, Mayo Clinic

Rebecca Marsh, MD, Cincinnati Children's Hospital Medical Center

Faculty:

Vijaya Knight, MD, PhD, National Jewish Health

Tom Fleisher, MD, NIH Clinical Center

Jack Bleesing, MD, PhD, Cincinnati Children's Hospital Medical Center

Janet Chou, MD, Boston Children's Hospital

Troy Torgerson, MD, PhD, Seattle Children's Research Institute/University of Washington

Sergio Rosenzweig, MD, PHD, NIH

Thursday, June 28, 2018

12:00 – 1:30pm **Registration and Lunch**

1:30-1:35pm **Welcome**
Roshini Abraham, PhD, Mayo Clinic

1:35-1:45pm: **Introduce the format of the School**
Rebecca Marsh, MD, Cincinnati Children's Hospital Medical Center

1:45-2:00pm: **Introduction of participants and observers and core faculty**

2:00-2:50pm: **Introduction to Flow Cytometry and Diagnostic Applications**
Tom Fleisher, MD, NIH Clinical Center
Jack Bleesing, MD, PhD, Cincinnati Children's Hospital Medical Center
Rebecca Marsh, MD, Cincinnati Children's Hospital Medical Center
Vijaya Knight, MD, PhD, National Jewish Health

- 2:50-3:40pm: **Introduction to genetics and genomics**
Janet Chou, MD, Boston Children's Hospital
Troy Torgerson, MD, PhD, Seattle Children's Research Institute/University of Washington
Sergio Rosenzweig, MD, PhD, NIH
- 3:40-4:00pm: **Coffee Break**
- 4:00-6:30: **Participant Case Presentations**
10, 5 min. case presentations. 10 minute discussion for each
- 6:30pm: **Break for the day**
- 7:00pm: **Dinner with Group**
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Friday, June 29, 2018

Cases for Flow Computer Lab:

DHR (CGD), CD40L (XHIM), ALPS, CVID (B cell subsets), SCID (lymphocyte subsets, CD45RA/RO, other T cell markers), regulatory T cells and FOXP3 (IPEX and IPEX-like conditions), DOCK8, LRBA, WAS, XIAP and SAP flow

- 7:00-7:30am: **Breakfast**
- 7:30-9:30am: **Computer Lab for Flow Cytometry (Group A)**
(FCS Express will be used for flow data analysis with introduction on the availability of many different analytical software and no endorsement by faculty or CIS of any particular product).
- 7:30-9:30am: **Team Exercise for Group B** (this will be related to cases with specific flow assays covered in the Computer Lab exercise)
- Speakers:
Michael Jordan, *Basic Aspects of HLH*
Ashish Kumar, *Diagnostic Aspects of HLH*
Sharat Chandra, *SCID Diagnostics*
- 9:30-10:00am: **Break**
- 10:00am-12:00pm: **Computer Lab for Flow Cytometry (Group B)**
- 10:00am-12:00pm: **Team Exercise for Group A**
- Speakers:
Michael Jordan, *Basic Aspects of HLH*
Ashish Kumar, *Diagnostic Aspects of HLH*
Sharat Chandra, *SCID Diagnostics*
- 12:00-1:00pm: **Lunch**

- 1:00-1:30pm: **Invited Lecture #1**
Troy Torgerson, MD, PhD, Seattle Children's,
The Multi-purpose Dried Blood Spot (Proteomics, Immunophenotyping and Epigenetics studies on Newborn Screen Blood Spots)
- 1:30-3:30pm: **Participant cases**
8, 5 min. case presentations. 10 minute discussion for each
- 3:30-3:45pm: **Break**
- 3:45-4:45pm: **Computer Lab Exercises (Group A)**
- 3:45-4:45pm: **Team Exercise (Group B)**
- 4:45-5:45pm: **Computer Lab Exercises (Group B)**
- 4:45-5:45pm: **Team Exercise (Group A)**
- 5:50pm: **Break for the Day**
- 6:30pm: **Cincinnati Zoo Outing**
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Saturday, June 30, 2018

Cases for Genetics Computer Lab:

IKBKG, NCF1, GATA2, NGS data analysis, in silico prediction tools, review of exome databases and disease-specific databases, ACMG variant classification

- 7:00-8:00am: **Breakfast**
- 8:00-9:00 am: **Invited Lecture #2**
Jonathan Alder, PhD, University of Pittsburgh
Telomere FLOW-FISH and Applications for Immunological Diseases
- 9:00-10:30am: **Computer Lab for Genetics/Genomics (Group A)**
- 9:00-10.30am: **Team Exercise for Group B**
- 10:30-11:00am: **Break**
- 11:00am-12:30pm: **Computer lab for Genetics/Genomics (Group B)**
- 11:00am-12:30pm: **Team Exercise for Group A**
- 12:30-1:30pm: **Lunch**
- 1:30-3:00pm: **Participant cases**
6, 5 min. case presentations. 10 minute discussion for each
- 3:00-3:15pm: **Break**
- 3:15-4:45pm: **Participant cases**
6, 5 min. case presentations. 10 minute discussion for each

5:00-6:00pm: **Career and General discussion about Clinical and Diagnostic Immunology**

6:00pm: **Break for the Day/ Free Evening**

Sunday, July 1, 2018

7:30-8:30am: **Breakfast**

8:30-11:00am: **Simultaneous Round-Robin Activities in Small Groups**

- Writing case reports/abstracts
- Developing lab projects,
- CIS committees and activities
- Developing medical education skills
- Mentor-mentee relationships

11:00-11:30am: **Wrap-Up/Award of JMF Best Abstract Submitted**

11:30am: **Departure (packed lunches will be available)**