



2024 Pre-Program

Monday, October 21st

IEIIS Day

Lincoln Room

8:30am-5pm

8:30 – 9:00 am – Breakfast

9:00 – 10:00 am – Introductions and Keynote Speaker: **The LPS-code: Uncovering Meta-level Chemical Structures that Establish LPS as Friend or Foe**, Antonio Molinaro, *University of Naples Federico II*

10:00 – 10:30 am - **Synthesis and Functions of Acetic Acid Bacteria *Acetobacter pasteurianus* Lipid A**, Atsushi Shimoyama, *Osaka University*

10:30 – 10:45 am – Coffee Break

10:45 – 11:15 am - **Archaea aRe Not bActeria, but don't ask TLR8: What is sensing of archaea good for?**, Holger Heine, *Research Center Borstel*

11:15 – 11:45 am - **Role of Semaphorin 5A in Acute Lung Injury**, Parizad Torabi-Parizi, *NIH*

11:45 am - 1:45 pm – Lunch and IEIIS Business Meeting

1:45pm – 2:15 pm - **Host Immune Recognition of Bacterial Glycans: A Molecular View**, Alba Silipo, *University of Naples Federico II*

2:15 – 2:45 pm - Title TBD, Yukari Fujimoto, *Keio University*

2:45 - 3:15 pm - **Novel Neuroendocrine Role in the Host Response to Influenza Infection**, Kari Ann Shirey, *University of Maryland School of Medicine*

3:15 – 3:30 pm – Coffee Break

3:30 – 4:00 pm - Title TBD, Jun Kunisawa, *National Institutes of Biomedical Innovation, Health and Nutrition*

4:00 – 4:20 pm – Potential Short Talk TBD

4:20 – 4:40 pm - Potential Short Talk TBD

4:40 – 5:00 pm – Conclusions and Wrap-Up

Tuesday, October 22nd

Information Desk

8:00 am – 4:00 pm

Centennial Foyer

Special Interest Group Satellites (SIGs):

All day coffee service available in Centennial Foyer for SIG Attendees

SIG 1: Neutrophils in Tumor Immunity (9am-12pm)

Room: Centennial C

Co-Chairs: Vijay Kumar, Morehouse School of Medicine

- **Neutrophils in Colorectal Cancer**, Caroline Herrnreiter, *Northwestern University*
- **Reprogramming of Immune-enhancing Neutrophils by Subclinical Low-dose Endotoxin for the Treatment of Cancer**, Yao Zhang, *Virginia Tech*
- **Killing Cancer Cells by Suicide Bomb Attack with Neutrophil Extracellular Traps**, Zhenghe Wang, *Case Western Reserve University*
- **The Role of TREM-1 in Regulating Lung Inflammation**, Julia Kleney-Tait, *University of Iowa Hospitals and Clinics*

SIG 2: Modulators for Leukocyte Memory in Disease and Homeostasis (9am-12pm)

Room: Centennial AB

Chair: Liwu Li, Virginia Tech

- **Trained Immunity in Neonatal Sepsis**, Jaimar Rincon, *University of Florida*
- **Generation of Resolving Monocytes in the Treatment of Low-grade Inflammatory Disease**, Shuo Geng, *Virginia Tech*
- **TRPV4 Regulates the Macrophage Metabolic Response to Limit Sepsis-induced Lung Injury**, Erica Orsini, *Cleveland Clinic*. With clinical perspectives presented by Vidula Vachharajani
- **Involvement of NOD2 and RIP2 in the Activation of 5-lipoxygenase**, Justine Tigno-Aranjuez, *UCF*
- **Impact of Aging, Obesity, and Adipose Tissues in Sepsis**, Allison Owen, *University of Kentucky*

SIG Attendee Lunch (for SIG registrants only) (12-1pm)

Centennial Foyer

SIG 3: Neutrophil Swarming: How Neutrophils Communicate, Act, and Resolve Infections through Collective Action (1-4pm)

Room: Centennial AB

Chair: Daniel Irimia, Massachusetts General Hospital, Shriners Burns Hospital, Harvard Medical School

- **Self-extinguishing Relay Waves Enable Homeostatic Control of Human Neutrophil Swarming,** Orion Weiner, *UCSF*
 - **Imaging Neutrophil Swarm Dynamics During Wound Infections,** Milka Sarris, *Cambridge University*
 - **Generation of Resolving Neutrophils for the Treatment of Inflammatory Disease,** Liwu Li, *Virginia Tech*
 - **Pulmonary Intravascular Neutrophil Swarming: A Necessary Evil,** Bryan George Yipp, *University of Calgary*
 - **Neutrophil Swarms Prevent *Candida albicans* Invasion into Epithelial Mucosal During Oral Candidiasis,** Mira Edgerton, *Buffalo University*
 - ***S. aureus* Alpha-toxin Targets Neutrophil Swarming in Skin Infection,** Regina Clemens, *Washington University*
 - **How Neutrophils Know When to Swarm?,** Alex Hopke, *East Tennessee State University*
 - **Transcellular Lipid Synthesis in Neutrophils During Swarming,** Bryan P. Hurley, *Massachusetts General Hospital*
 - **Loss of Neutrophils Coordination During Swarming in Patients,** Michael Mansour, *Massachusetts General Hospital*
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SIG 4: Extracellular Vesicles in Host-Parasite Interactions (1-4pm)

Room: Centennial C

Co-Chairs: Mary Stevenson and Martin Olivier, McGill University

- **The Role of Extracellular Vesicles in Malaria Parasite Survival Strategies,** Neta Regev-Rudzki, *Weizmann Institute*
 - **Exploring Extracellular Vesicles: Mediators of Host-Parasite Interaction and**
 - **Composition and Function of EVs during a Mycobacterial Infection,** Jeffrey Schorey, *University of Notre Dame*
 - **Leishmania Exosomes and Myeloid Cell Sensors: A Key Interaction for Effective Infection,** Martin Olivier, *McGill University*
 - **The Impact of Abundant Nematode-derived microRNAs on Host Immune Cell Functions,** Lucienne Tritten, *McGill University*
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ALTERNATE Special Interest Group

ImmunoReach: Teaching Immunology Through Backward Design (11am-3pm)

Room: Red Cedar A/B

Organizers and Speakers: Louis Justement, *University of Alabama at Birmingham*; Rebekah Taylor, *Frostburg State University*; Sumali Pandey, *Minnesota State University Moorhead*

Each one-hour segment of this workshop will begin with a presentation given by the organizers. The topics will include an introduction of the ImmunoReach network and its goals, the major projects of the network, including immunological concept and competency learning frameworks, and opportunities for SLB members to become active participants in the network. After each presentation, participants will be engaged in active discussions around building lesson plans and approaches related to interdisciplinary immunology education. Organizers will facilitate these discussions by providing guided worksheets and other tools. Registration for this session is sponsored by ImmunoReach and includes lunch. *Maximum attendance is capped at 20 participants.*

SLB Council Meeting Dinner (Part 1): 5-9 pm – Red Cedar A/B – **By Invitation Only**

57th Annual Society for Leukocyte Biology Meeting
Not Lost in Translation: Innate and Adaptive Immunity



Wednesday, October 23rd

Information Desk

8:00 am – 5:00 pm

Foyer

Speaker Ready Room

8:00 am – 5:00 pm

Galaxy

Staffed during breaks only

8:30 am – 9:00 am Breakfast Centennial ABC

Join fellow attendees for a light breakfast.

Light breakfast provided.

9:00 am – 10:30 am Plenary I:

Cancer Immunology

Chairs:

Amanda Brown, Jamie Sturgill
& Nathaniel Larthey

Location:

Big Ten B/C

9:00 am

**Neutrophil Trafficking and
Function in Gut Inflammation,**
Ronen Sumagin, *Northwestern
University*

9:30 am

**When T-cells Go Awry: Biology
and Clinical Manifestations of T-
cell Lymphomas,** Francine Foss,
Yale University

10:00 am

**Cancer Immunotherapy
Without Autoimmunity,** David
Fox, *University of Michigan*

10:30 am – 11:00 am Break Foyer and Big Ten A

Join fellow attendees for a quick break to stretch your legs and a quick refreshment.

11:00 am – 12:30 pm	Plenary II: Infectious Diseases	Chairs: TBD	Location: Big Ten B/C
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11:00 am

Unraveling How Pathogens Shape Host Immunity, Keke Fairfax, *University of Utah*

11:30 am

Airway Macrophage Heterogeneity in Health and Disease, Henry Mwandumba, *Malawi-Liverpool-Wellcome Trust Clinical Research*

12:00 pm

Sepsis Precision and Applied Therapies, Ken Remy, *Case Western*

12:30 pm – 1:30 pm Poster Session Lunch I Big Ten A

Join fellow attendees and browse posters during this first poster session while enjoying lunch.
Grab-n-go lunch provided.

JLB Editorial Board Lunch 12:30 pm – 1:30 pm - Red Cedar A/B – **By Invitation Only**

1:30 – 3:00 pm	Presidential Scholars	Chairs: Lou Justement & Cindy Leifer	Location: Big Ten B/C
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Graduate Student Finalists

1:30 pm

TITLE TBA, speaker, affl

1:45 pm

TITLE TBA, speaker, affl

2:00 pm

TITLE TBA, speaker, affl

Postdoctoral Finalists

2:15 pm

TITLE TBA, speaker, affl

2:30 pm

TITLE TBA, speaker, affl

2:45 pm

TITLE TBA, speaker, affl

3:00 – 3:30 pm Networking Break Foyer and Big Ten A

Mingle with fellow attendees while visiting the various exhibit and informational tables.
Light refreshments provided

3:30 – 5:30 pm	Excellence in Leukocyte Biology	Chairs: Lou Justement & Cindy Leifer	Location: Big Ten B/C
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Early Career Finalists

3:30 pm	3:50 pm	4:10 pm
TITLE TBA, speaker, affl	TITLE TBA, speaker, affl	TITLE TBA, speaker, affl

Mid-Career Finalists

4:30 pm	4:50 pm	5:10 pm
TITLE TBA, speaker, affl	TITLE TBA, speaker, affl	TITLE TBA, speaker, affl

5:30 pm – 6:00 pm Break Foyer and Big Ten A
Join fellow attendees to stretch your legs and enjoy a refreshment.

6:00 – 7:00 pm	SLB Legacy	Chair: Lou Justement & Cindy Leifer	Location: Big Ten B/C
Keynote Lecture			
<i>SLB Legacy Awardee</i>			
Mechanisms of Immune Dysfunction in Sepsis/Shock: Some Unique Roles for Checkpoint Proteins,			
<i>Alfred Ayala, Rhode Island Hospital</i>			

7:00 – 9:00 pm Opening Reception, East Patio (OR Big Ten A)
Join fellow attendees to celebrate coming together. Mingle, network, and connect with new, and old, friends, while enjoying a light dinner reception.

Thursday, October 24th

Information Desk

8:00 am – 4:00 pm

Foyer

Speaker Ready Room

8:00 am – 4:00 pm

Galaxy

Staffed during breaks only

8:00 – 9:00 am Networking Breakfast Red Cedar A/B

Hosted by the DEI Committee, join fellow attendees for breakfast while discussing suggested table topics on a variety of topics.

Breakfast Buffet provided.

9:00 am – 10:30 am Concurrent Sessions 1 & 2

Concurrent Session 1: Immunodeficiency

Chairs: Charlotte Cunningham-Rundles & TBD

Location: Big Ten B/C

Featured Speaker:

9:00 am **Genetics in Human Antibody Deficiency: What Have We Learned?**, Charlotte Cunningham-Rundles, *Icahn School of Medicine at Mount Sinai*

Selected Talks:

9:30 am **TITLE TBA**, speaker, affl

9:45 am **TITLE TBA**, speaker, affl

10:00 am **TITLE TBA**, speaker, affl

10:15 am **TITLE TBA**, speaker, affl

OR

Concurrent Session 2: Data, Omics, and more

Chairs: Bryan Bryson & TBD

Location: Centennial A/B/C

Featured Speaker:

9:00 am **Macrophage Phenotypic State Transitions**, Bryan Bryson, *MIT*

Selected Talks:

9:30 am **TITLE TBA**, speaker, affl

9:45 am **TITLE TBA**, speaker, affl

10:00 am **TITLE TBA**, speaker, affl

10:15 am **TITLE TBA**, speaker, affl

10:30 am – 11:00 am Break with JLB Foyer & Big Ten A

Meet the *Journal of Leukocyte Biology* Editor-in-Chief and Senior Editorial Team during this special coffee break.

Discuss your manuscript ideas and learn about the submission process. Meet at the JLB table.

OR

Mingle with fellow attendees while visiting the various exhibit and informational tables.

Light refreshments provided

11:00 – 12:30 pm Concurrent Sessions 3 & 4

**Concurrent Session 3:
Hypersensitivity**

Chairs: Eric Oliver & TBD

Location: Big Ten B/C

Featured Speaker:

11:00 am **Basophils and Eosinophils in Chronic Urticaria**, Eric Oliver, *Johns Hopkins University*

Selected Talks:

11:30 am **TITLE TBA**, speaker, affl

11:45 am **TITLE TBA**, speaker, affl

12:00 pm **TITLE TBA**, speaker, affl

12:15 pm **TITLE TBA**, speaker, affl

OR

Concurrent Session 4: Tissue Immunity

Chairs: Cheryl Rockwell & TBD

Location: Centennial A/B/C

Featured Speaker:

11:00 am **The Role of the Stress-activated Transcription Factor, Nrf2, in Antiviral Response and Food Allergy**, Cheryl Rockwell, *Michigan State University*

Selected Talks:

11:30 am **TITLE TBA**, speaker, affl

11:45am **TITLE TBA**, speaker, affl

12:00 pm **TITLE TBA**, speaker, affl

12:15 pm **TITLE TBA**, speaker, affl

12:30 – 1:30 pm Poster Session Lunch II Big Ten A

Join fellow attendees and browse posters during this first poster session while enjoying lunch.

Grab-n-go lunch provided.

1:30 – 3:00 pm Concurrent Sessions 5 & 6

**Concurrent Session 5: Rare Cell
Types in Infectious Disease**

Chairs: Marlene Starr & TBA

Location: Big Ten B/C

Featured Speaker:

1:30 pm **Adipose-Resident $\gamma\delta$ T Cells as
Mediators of Age-Related Inflammation,**
Marlene Starr, *University of Kentucky*

Selected Talks:

2:00 pm **TITLE TBA**, speaker, affl

2:15 pm **TITLE TBA**, speaker, affl

2:30 pm **TITLE TBA**, speaker, affl

2:45 pm **TITLE TBA**, speaker, affl

OR

**Concurrent Session 6: Cancer
Immunology**

Chairs: Kavita Dhodapkar & TBA

Location: Centennial A/B/C

Featured Speaker:

1:30 pm **Understanding Checkpoint
Blockade Toxicity in Cancer,** Kavita
Dhodapkar, *Emory University*

Selected Talks:

2:00 pm **TITLE TBA**, speaker, affl

2:15 pm **TITLE TBA**, speaker, affl

2:30 pm **TITLE TBA**, speaker, affl

2:45 pm **TITLE TBA**, speaker, affl

3:00– 3:30 pm Networking Break Foyer & Big Ten A

Mingle with fellow attendees while visiting the various exhibit and informational tables.

Light refreshments provided.

3:30 pm – 5:00 pm Concurrent Sessions 7 & 8

Concurrent Session 7: Host-Pathogen Dynamics

Chairs: Rushika Perera & TBA

Location: Big Ten B/C

Featured Speaker:

3:30 pm **Reframing Viral Infections as Acute Metabolic Disorders**, Rushika Perera, *Colorado State University*

Selected Talks:

4:00 pm **TITLE TBA**, speaker, affl

4:15 pm **TITLE TBA**, speaker, affl

4:30 pm **TITLE TBA**, speaker, affl

4:45 pm **TITLE TBA**, speaker, affl

OR

Concurrent Session 8: Clinical Research: Recent Advances in Leukocyte Biology

Chairs: Kenneth McLeish & TBA

Location: Centennial A/B/C

Featured Speaker:

3:30 pm **Lessons in Neutrophil Heterogeneity from COVID-19**, Kenneth McLeish, *University of Louisville*

Selected Talks:

4:00 pm **TITLE TBA**, speaker, affl

4:15 pm **TITLE TBA**, speaker, affl

4:30 pm **TITLE TBA**, speaker, affl

4:45 pm **TITLE TBA**, speaker, affl

6:00 – 8:00 pm Professional Development and MTTC Dinner Workshop

Red Cedar A/B

Pre-Registration and purchased ticket required

Join for this workshop organized by the Professional Development and Members in Transition and Training Committees. A career panel discussion from various career path perspectives will be followed by focused round table discussions.

Buffet dinner provided (pre-purchased tickets required).

Friday, October 25th

Information Desk

8:00 am – 3:00 pm
Foyer

Speaker Ready Room

8:00 am – 12:00 pm
Galaxy
Staffed during breaks only

7:00 – 8:00 am Meet n greet time for Undergraduate Attendees and Mentors
Centennial A/B/C

8:00 – 9:30 am Breakfast and Poster Flash Talks

Centennial A/B/C

Organized by the Members in Transition and Training Committee. Breakfast Buffet provided
Chair: Kelley Cooper

Topic TBA: Co-Chair: TBA

TITLE TBA, speaker, affl

TITLE TBA, speaker, affl

TITLE TBA, speaker, affl

TITLE TBA, speaker, affl

Topic TBA: Co-Chair: TBA

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TITLE TBA, speaker, affl

Topic TBA: Co-Chair: TBA

TITLE TBA, speaker, affl

TITLE TBA, speaker, affl

TITLE TBA, speaker, affl

TITLE TBA, speaker, affl

9:30 – 11:00 am Plenary III: Immune Response to Hypersensitivity

Chairs:

TBD

Location:

Big Ten B/C

9:30 am

Keratinocytes: First Responders of Neuroinflammation in Allergic Contact Dermatitis, Adriene Larregina, *University of Pittsburgh*

10:00 am

IL-33-dependent Immunity is Only Skin Deep, DeBroski Herbert, *University of Pennsylvania*

10:30 am

Microbiome, Metabolites, and Allergic Responses, Nick Lukacs, *University of Michigan*

11:00 am – 11:30 am Member Business Meeting & Award Presentations

Big Ten B/C

Learn about the current status of SLB and JLB and congratulate award winners with the announcement of Presidential Scholars, Excellence in Leukocyte Biology, and onsite flash talk awards.

11:30 am – 12:30 pm Poster Session Lunch III Big Ten A

Join fellow attendees and browse posters during this final poster session while enjoying lunch.

Undergraduate Posters are presented.

Grab-n-go lunch provided.

12:30 pm – 2:00 pm Plenary IV: Autoimmunity and Immunodeficiency

Chairs:

Amanda Brown, Jamie Sturgill & Nathaniel Lartey

Location:

Big Ten B/C

12:30 pm

Revisiting the Functions of IL-15, Sheela Ramanathan, *University of Sherbrooke*

1:00 pm

SLE: Interferon and Beyond, Virginia Pascual, *Cornell University*

1:30 pm

Host Genetic Modifiers of Immunodeficiency and Alloimmunization, Neil Hanchard, *NIH*

SLB Council Meeting (Part 2): 3-6 pm – Red Cedar A/B - By Invitation Only