



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: **Bacterial Lipids - From Diagnostics to Immune Modulators**, Bob Ernst, *University of Maryland*

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 - **Spatial Lipidomics of the Host-pathogen Interface in Pulmonary Infection Models**, Alison Scott, *University of Maryland*

2:15 – 2:45 pm - **Immunomodulatory Glycolipids: Selective Immune Activation via Lipid Antigen Presentation and Innate Immune Receptors**, 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 - **The Role of Commensal Bacterial Components and Metabolites in Regulating Host Immunity**, Jun Kunisawa, *National Institutes of Biomedical Innovation, Health and Nutrition*

4:00 – 4:40 pm – IEIIS Award Presentations

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 Klesney-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*
- **Exploration of Novel Mechanisms of Post-Sepsis Myopathy**, Allison Owen, University of Kentucky

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

Big Ten A & Centennial

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

- **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*
 - **Insights on the Role of the ESCRT Machinery in *Leishmania donovani* Infections**, Peter Kima, *University of Florida*
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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 – 6:00 pm

Foyer

Speaker Ready Room

8:00 am – 5:00 pm

Galaxy

Staffed during breaks only

8:00 am – 9:00 am Breakfast Big Ten A & Centennial A/B/C

Join fellow attendees for a light breakfast. The buffet is located in Big Ten A and seating is available in both big Ten A and Cenntennial

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 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:

Claire Doerschuk & Henrique
Serezani

Location:

Big Ten B/C

11:00 am

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

11:30 am

**Dissecting the Inflammatory
Response of Lung Macrophages
During Activation and Infection,**
Andrew Olive, *Michigan State
University*

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

Graduate Student Finalists

1:30 pm

***P. gingivalis* proteolytically disables neutrophil defenses and impounds them in macrophages**, Kelley Cooper, *University of Louisville abstract #65*

1:45 pm

Spatiotemporal Dynamics of Langerhans Cells During Skin Wound Repair, Axel Schmitter, *Michigan State University abstract #66*

2:00 pm

Neutrophils Control T Cell Responses to the Pneumococcal Conjugate Vaccine, Essi Tchalla, *University at Buffalo abstract #67*

Postdoctoral Finalists

2:15 pm

Exploring Neutrophil Contribution to Anti-TNF α therapy resistance in IBD, Laura Manzanares, *Northwestern University abstract #68*

2:30 pm

Inflamed Endothelial Cells Establish Self-Regulatory Niches via Recruitment of Vessel Associated Macrophages, Xingsheng Ren, *Northwestern University abstract #69*

2:45 pm

Glucocorticoids Alter Neutrophil Killing Mechanisms Against *Aspergillus* Extracellular Hyphae, Savini Thrikawala, *Clemson University abstract #70*

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

Mingle with fellow attendees while visiting the various exhibit and informational tables. Get your SLB 70th Birthday Cupcake while supplies last!
Light refreshments provided

3:30 – 5:30 pm

**Excellence in
Leukocyte Biology Early and Mid-
Career**

Chairs:

Lou Justement & Cindy Leifer

Location:

Big Ten B/C

3:30 pm

**Mixed Neutrophil-Eosinophil
Subsets in Health and
Inflammation**, Sergejs
Berdnikovs, *Northwestern
University* abstract #71

3:50 pm

**CCL20 is required for
emergence of ocular antigen-
specific Treg cells**, Darren Lee,
UMass Medical School abstract #72

4:10 pm

**Caveolin-1/PPAR α Axis
Restrains Pathogenic T
Follicular Helper Cell Response
in Primary Sjögren's Syndrome**,
Xiang Lin, *The University of
Hong Kong* abstract #73

4:30 pm

**Toxoplasma Infection Imprints a Pathogenic
Program in Skeletal Muscle Tregs**, Elizabeth
Wohlfert, *University at Buffalo* abstract #74

4:50 pm

**Mitochondrial Fatty Acid Oxidation Regulates
Interferon Signaling via Histone Acetylation**, Jing
Wu, *NIH NHLBI* abstract #75

5:30 pm – 6:00 pm Break Big Ten A

Join fellow attendees to stretch your legs and enjoy a refreshment.

6:00 – 7:00 pm

**SLB Legacy
Keynote Lecture**

SLB Legacy Awardee

Mechanisms of Immune Dysfunction in Sepsis/Shock: Some Unique Roles for Checkpoint Proteins,
Alfred Ayala, *Rhode Island Hospital*

Chair:

Lou Justement & Cindy Leifer

Location:

Big Ten B/C

7:00 – 9:00 pm Opening Reception, Big Ten A

Join fellow attendees to celebrate coming together. Mingle, network, and connect with new, and old, friends, while enjoying a 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

7:30 – 9:00 am Networking Breakfast Lincoln Room

Hosted by the DEI Committee, join fellow attendees for breakfast while discussing suggested table topics. Grab your breakfast starting at 7:30am in room 106 and have a seat in the Lincoln Room.

Alternate Breakfast available in Big Ten A from 8-9am.

Breakfast Buffet provided.

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

Concurrent Session 1: Autoimmunity and Immunodeficiency

Chairs: Charlotte Cunningham-Rundles &
Kehinde Babatunde

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 **TICAM2 Deletion Facilitates
Monocyte Exhaustion Recovery After
Sepsis**, Blake Caldwell, *Virginia Tech* abstract
#76

9:45 am **Autoimmune Regulator
Deficiency Causes Epididymal
Autoimmunity Characterized by
Infiltration of Iron-laden Macrophages**,

OR

Concurrent Session 2: Data, Omics, and more

Chairs: Bryan Bryson & Kiana Bynum

Location: Centennial A/B/C

Featured Speaker:

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

Selected Talks:

9:30 am **Single-cell Transcriptome Profiling
Reveals Neutrophil Heterogeneity in the
Cherubism Mice**, Ziming Cao, *UConn Health
(Presidential Scholar - Graduate Student -
Merit Finalist)* abstract #80

9:45 am **Machine Learning-Enabled Rapid
Detection and Classification of Bacterial
Endotoxins by Surface-Enhanced Raman
Scattering**, Susu Zughaier, *Qatar University*
abstract #81

Soo Hyun Ahn, *Michigan State University*
abstract #77

10:00 am **Immuno-Responsive Gene-1 (Irg1): Plays Key Role in Efferocytosis in Mouse Model of Multiple Sclerosis**, Mohammad Nematullah, *Henry Ford Health (Presidential Scholar - Postdoctoral - Merit Finalist)* *abstract #78*

10:15 am **High-Dimensional Analysis of Whole Blood Neutrophil and Myeloid Cell Changes in RA and SLE Autoimmune Diseases**, James Lederer, *BWH and Harvard Medical School* *abstract #79*

10:00 am **Role of Ribosomal-Protein L13a in Bone-Marrow Macrophage Polarization and Diversity**, Antara Roy, *Cleveland State University (Presidential Scholar - Graduate Student - Merit Finalist)* *abstract #82*

10:15 am **Spatially Separated Neutrophils Present Distinct Functional Identities in Inflamed Colonic Mucosa**, Lenore Yalom, *Northwestern University (Presidential Scholar - Graduate Student - Merit Finalist)* *abstract #83*

10:30 am – 11:00 am Break with JLB 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 and get a special JLB Cookie while supplies last!

OR

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

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

Concurrent Session 3: Immune Response to Hypersensitivity

Chairs: Eric Oliver & Dan Hao

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 **Early Life Adversity Alters the Mast Cell Inflammatory Phenotype and Transcriptome**, Janelle LeMon, *Michigan*

OR

Concurrent Session 4: Tissue Immunity

Chairs: Cheryl Rockwell & Jaewon Sim

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 **Interleukin-15 Contributes to the Pathology in Liver Fibrosis**, Sara Ali Akbari, *University of Sherbrooke (Presidential*

State University (Presidential Scholar -
Graduate Student - Merit Finalist) abstract #84

11:45 am **Skin Blister in Cynomolgus
Macaque to Translate Anti-inflammatory
Medicines**, Calvin Pohl, *AbbVie Inc.* abstract
#85

12:00 pm **Th2 cell extracellular vesicles
promote eosinophil survival through
cytokine cargo**, Heather Pua, *Vanderbilt
University Medical Center* abstract #86

12:15 pm **Single Cell Transcriptomics of
RELM α -Regulated Adipose Macrophage
and Eosinophil Subsets in Obesity**,
Rebecca Ruggiero-Ruff, *UC Riverside* abstract
#87

Scholar - Graduate Student - Merit Finalist)
abstract #88

11:45am **The Role of Epithelial LTB₄/BLT1
Signaling in Resolution of Colonic Mucosal
Wounds**, Saranyaraajan Varadarajan,
University of Michigan abstract #89

12:00 pm **PPAR- γ Agonism Modulate
Macrophage Responses in a Model of
Synovial Inflammation - Implications for
Joint Therapy**, Bruno Menarim, *Gluck
Equine Research Center* abstract #90

12:15 pm **Suppression Of Polarized
Macrophages By The Anti-Inflammatory
Neuropeptide Alpha-Melanocytes
Stimulating Hormone**, Andrew Taylor,
*Boston University Chobanian & Avedisian
School of Medicine* abstract #91

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

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

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

Concurrent Session 5: Aging, Obesity, and Immunology

Chairs: Marlene Starr & Melanie Martinsen

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 **Exploring Neutrophil Dynamics in
Metabolic Syndrome-Induced
Inflammation**, Joaquín Cantón Sandoval,

OR

Concurrent Session 6: Cancer Immunology

Chairs: Kavita Dhodapkar & Mary Oliver

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 **Activin A Cooperates with the
Actin-binding Protein Cortactin to Promote
B-cell Acute Lymphoblastic Leukemia**

Albert Einstein College of Medicine abstract #92

2:15 pm **Age-driven Changes in PMN Function are Driven by Transcriptional Changes in Metabolism and Differentiation**, Michael Battaglia, *SUNY at Buffalo abstract #93*

2:30 pm **Helminth-Induced Type 2 Immune Responses Protect Against Diet-Induced Obesity via RELM α** , Jennell Jennett, *University of California, Riverside abstract #94*

2:45 pm **Oral S. anginosus and S. mitis Induce Distinct Morphological, Inflammatory, and Metabolic Signatures in Macrophages**, Justin Wilson, *The University of Arizona abstract #95*

Progression, Joseph Adomako, *CINVESTAV-IPN abstract #96*

2:15 pm **Inherited KDM6A649T Facilitates Tumor-immune Escape and Exacerbates Colorectal Signet-ring Cell Carcinoma Outcomes**, Jun Wang, *Shanghai General Hospital, Shanghai Jiao Tong University, School of Medicine abstract #97*

2:30 pm **Neoplasms of Dendritic and Macrophage Lineage Show Extensive PTPN11/SHP2 Mutations**, Vilma Yuzbasiyan-Gurkan, *Michigan State University abstract #98*

2:45 pm **Spatial Analysis of NETotic Neutrophil Crosstalk with Monocytes/M ϕ in Oral Squamous Cell Carcinoma**, Austin Lowery, *Immunology Center of Georgia abstract #99*

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

Mingle with fellow attendees while visiting the various exhibit and informational tables. Enjoy an Ice Cream Sundae Bar featuring ice cream made at the MSU Dairy!

Light refreshments provided.

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

Concurrent Session 7: Viral Immunology

Chairs: Rushika Perera & Morgan Collins

Location: Big Ten B/C

Featured Speaker:

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

Selected Talks:

Concurrent Session 8: Immunology and Critical Care

Chairs: Kenneth McLeish & Cassia Michael

Location: Centennial A/B/C

Featured Speaker:

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

Selected Talks:

OR

4:00 pm **P. gingivalis and RSV Dynamics: From Inhibition to Enhancement**, Carlos Rodriguez Hernandez, *Nationwide Children's Hospital Research Institute* abstract #100

4:15 pm **The Nrf2 Activator, tBHQ Blunts Dendritic Cell Function Upon Influenza A Infection**, Saamera Awali, *Michigan State University (Presidential Scholar - Graduate Student - Merit Finalist)* abstract #101

4:30 pm **Vpr-induced DNA Damage Promotes HIV-1 Replication in Acutely Infected Macrophages via cGAS/STING Signaling**, Timothy Hanley, *University of Utah* abstract #102

4:45 pm **SYNFERON™ Molecules Exhibit Potent Broad-Spectrum Antiviral Activities with Tunable Pro-inflammatory Gene Induction**, Ruipeng Wang, *IntegerBio* abstract #103

4:00 pm **Metabolic Rewiring of the CD4 T Cell Compartment in Human Critical Illness and Severe Sepsis**, Matthew Stier, *Vanderbilt University Medical Center* abstract #104

4:15 pm **Investigating the Mechanisms of Neutrophil Dysfunction Induced by Hemorrhagic Shock**, Anandita Basu, *Rhode Island Hospital, Brown University (Presidential Scholar - Postdoctoral - Merit Finalist)* abstract #105

4:30 pm **Ethanol exposure impairs LC3-associated phagocytosis via ATG16L1-IL-1 β pathway in macrophages**, Akash Ahuja, *Cleveland Clinic (Presidential Scholar - Postdoctoral - Merit Finalist)* abstract #106

4:45 pm **Trained Immunity in “Dirty” Mice: Implications for Trauma Research Models**, Alexandria Byskosh, *Brigham and Women's Hospital (Presidential Scholar - Postdoctoral - Merit Finalist)* abstract #107

5:30 pm – 7:00 pm Microbe.TV Immune Podcast Recording Big Ten B/C

An audience is welcome to watch as Microbe.TV records a live episode of the Podcast Immune at the conference with co-hosts Cindy Leifer and Brianne Barker.

6:30 – 8:30 pm Professional Development and MTTC Dinner Workshop

Centennial A/B/C

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 Flash Talks

Centennial A/B/C

Organized by the Members in Transition and Training Committee. Breakfast Buffet provided

Chair: Kelley Cooper

Autoimmunity & Immunodeficiency:

Epoxide Hydrolase Inhibition Effects on Silica-Induced Fibrosis and Autoimmunity, Vanessa Estrada, *Michigan State University abstract #004*

NF- κ B-inducing Kinase and Granulocyte Plasticity in Murine Hypereosinophilic Syndrome, Cassandra Poole, *Virginia Tech abstract #003*

Co-Transplanting Neutrophil Progenitors Attenuates Neutropenia Following Hematopoietic Stem Cell Transplantation, Melanie Martinsen, *Brown University abstract #024*

Host-Pathogen Dynamics:

Changes in Neutrophil Signaling Pathways Controlling Pneumococcal Killing in Vaccinated Aged Hosts, Shaunna Simmons, *University of Buffalo abstract #008*

Neutrophil and Macrophage derived Extracellular Vesicles Interaction during Sterile and Non-Sterile Injury Ex vivo, Kehinde Babatunde, *University of Wisconsin Madison abstract #005*

Immune Cell Modulation & Trained Immunity:

Synthetic Transcriptional Control in Macrophages using an Engineered Endosymbiont, Satyajit Hari Kulkarni, *Michigan State University* abstract #028

Transcriptional Effects of CpG-DNA Treatment on Bone Marrow Progenitor Niches, Zoe Michael, *Boston Children's Hospital (Presidential Scholar - Postdoctoral - Merit Finalist)* abstract #055

Early-life Immunization with Aluminum Adjuvant Results in Preferential Priming of Th2-biased Immune Responses, Cecilia Chen, *University of Michigan* abstract #UG4

Wild Cards:

Predictive Factors of ICU-acquired Infections Among Non-septic Patients, Felicie Belicard, *University Hospital of Rennes & INSERM* abstract #017

Trained Immunity Enhances Antimicrobial Functions of Macrophages Through NOX2-Driven ROS Production, Dan Hao, *Vanderbilt University Medical Center (Presidential Scholar - Postdoctoral - Merit Finalist)* abstract #016

Epigenetic and Transcriptomic Modulation of the Macrophage STAT3/SOCS3 Axis after Burn Injury, Han Gil Kim, *University of Florida (Presidential Scholar - Undergraduate Student - Merit Finalist)* abstract #UG1

8:30 – 9:30 am Alternate Breakfast Big Ten A

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

Chairs:

Jadwiga Jablonska & Craig Lefort

Location:

Big Ten B/C

9:30 am

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

10:00 am

Insights into Mast Cell Developmental Trajectories in IgE-mediated Reactions, Simon Hogan, *University of Michigan*

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 and Late Breaking Abstracts are presented in this poster session.

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**