



## 2025 Pre-Program

**Wednesday, October 29th**

### Information Desk

**8:00 am – 4:00 pm**

Foyer TBD

### Special Interest Group Satellites (SIGs):

#### **SIG 1: The Role of Neutrophils in Chronic Inflammation (9am-12pm)**

**Room: TBD**

**Chair:** Carlos Rosales, *Universidad Nacional Autónoma de México*

- **Compensating with a Cost: How FcγRIIIb Deficiency Shapes Neutrophil Functions**, Marion Brunk, *Instituto Tecnológico de Monterrey*
  - **Through the Lens of Zebrafish: How Systemic Inflammation Hacks Neutrophil Responses**, Sofia de Oliveira, *Albert Einstein College of Medicine*
  - **Neutrophils in the Oral Cavity: Guardians of Health and Agents of Disease**, Eileen Uribe Querol, *Facultad de Odontología - Universidad Nacional Autónoma de México*
  - **Harnessing Neutrophils in Cancer: Mission Impossible?**, Jadwiga Jablonska, *University Hospital Essen*
  - **Obesity Impairs Neutrophil Microbicidal Functions**, Carlos Rosales, *Instituto de Investigaciones Biomédicas - Universidad Nacional Autónoma de México*
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#### **SIG 2: Novel Mediators Rejuvenating Innate Immune Homeostasis (9am-12pm)**

**Room: TBD**

**Chair:** Liwu Li, *Virginia Tech*

- **Rejuvenation of Innate Immunity for Inflammation Therapeutics**, Liwu Li, *Virginia Tech*
  - **Role of DNA Sensing Pathways in Sepsis**, Meihong Deng, *Feinstein Institutes for Medical Research*
  - **MAP Kinase Phosphatase in Efferocytosis and Progression of Late-stage Atherosclerosis**, Jun Yu, *Temple University School of Medicine*
  - **Engineered immune cells for homeostasis**, Qing Deng, *Purdue University*
  - **OGT-modulated Metabolic Alterations in Innate Immunity**, Haitao Wen, *Ohio State University*
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#### **SIG Attendee Lunch (for SIG registrants only) (12-1pm)**

Foyer TBD

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**SIG 3: Immunomodulation by Neutrophils: From Molecular Mechanisms to Tissue Inflammation (1-4pm)**

**Room: TBD**

**Chairs:** Sergio Catz, *Scripps Research Institute* & Ben Croker, *UC San Diego*

- **Neutrophils and Monocytes: Friends or Foes in Cardiovascular Disease?**, Lynn Hedrick, *Immunology Center of Georgia, Augusta University, Augusta*
- **Endolysosomes and Neutrophil-mediated Inflammation**, Sergio Catz, *Scripps Research Institute, La Jolla*
- **How Neutrophil Swarms Adjust Their Size and Shape to Cover Large Targets**, Daniel Irimia, *MGH, Harvard, Boston*
- **Living and Dying for Balance: Neutrophils as Dynamic Modulators of Inflammation**, Hongbo Luo, *BWH, Harvard, Boston*
- **Neutrophil Inflammasome Activation: Learning From Human Autoinflammation**, Ben Croker, *UCSD, La Jolla*

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**SIG 4: Alcohol Use Disorder and Its Impact on Immunity (1pm-4pm)**

**Room: TBD**

**Chairs:** Jamie Sturgill, *University of Kentucky College of Medicine*, and Vidula Vachharajani, *Cleveland Clinic*

- **The Drinking Dilemma: How Alcohol Stirs up Colitis**, Mashkoor A. Choudhry, *Loyola University Chicago Health Sciences Division*
  - **Neuroinflammatory Effects of Alcohol on Burn Injury: Unraveling the Role of the Gut**, Rachel H. McMahan, *University of Colorado Denver Anschutz Medical Campus*
  - **Alcohol-induced Derangements in Alveolar Macrophage Immunometabolism May Be Due to Altered Hyaluronan**, Samantha Yeligar, *Emory University/Atlanta VA Medical Center*
  - **Too much of a good thing: Alcohol and Oxygen negatively impact the lung in the ICU**, Jamie Sturgill, *University of Kentucky*
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**SLB Council Meeting Dinner (Part 1): 5-9 pm – Room TBD (by invitation only)**

# 58<sup>th</sup> Annual Society for Leukocyte Biology Meeting

## Inflammation: A Goldilocks Story



### Thursday, October 30th

#### Information Desk

8:00 am – 5:00 pm

Stanley Park Foyer

#### Speaker Ready Room

8:00 am – 5:00 pm

Chehalis

*Staffed during breaks only*

**JLB Editorial Board Lunch (breakfast)** 7:45am – 9:00 am - Cowichan

#### 8:00 – 9:00 am Networking Breakfast Stanley Park 2

Hosted by the Engagement and Enrichment Committee, join fellow attendees for this opening breakfast event while discussing a variety of topics and getting to know your fellow attendees.

*Light Breakfast Buffet provided.*

#### 9:00 am – 10:30 am Feature I: Sepsis

##### Chairs:

Laura Sly & Vidula Vachharajani

##### Location:

Stanley Park 1

#### - TOO HOT

9:00 am

**Deciphering Sepsis with Systems Immunology Approaches: New Diagnostic and Therapeutic Concepts**, Bob Hancock, *University of British Columbia*

9:30 am

**Sepsis Immune Response: The Sirtuin Story**, Vidula Vachharajani, *Cleveland Clinic*

10:00 am

**Why Do Babies Get Sick? A Systems Biology Approach to Developing Diagnostics and Therapeutics for Neonatal Sepsis**, Amy Lee, *Simon Fraser University*

#### 10:30 am – 11:00 am Break Stanley Park Foyer

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

**11:00 am – 12:30 pm Feature II:  
Cancer Biology & Immunology –  
TOO COLD**

**Chairs:**

Bill Nauseef & Juhi Bagaitkar

**Location:**

Stanley Park 1

11:00 am

**Novel Roles of STATs 1 and 2 in Cancer**, George Stark, *Cleveland Clinic*

11:30 am

**Immune Control of Pediatric Leukemia - Timing is Everything**, Gregor Reid, *University of British Columbia*

12:00 pm

**Regulation of Cytokine Responses: Updates in STAT2 and its Role in Human Diseases**, Yuxin Wang, *Cleveland Clinic*

**12:30 pm – 1:30 pm Biogen Poster Session Lunch I** Stanley Park 3  
Sponsored by Biogen



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

**Featured Posters:**

- **VISTA Expression and Function in Alveolar and Interstitial Macrophages During Sepsis-Induced ARDS**, Fernando Gutierrez Garcia, *Brown University* #001
- **Differential Effects of PMN vs. Endothelial Cell-PD-L1 Gene Loss on Shock/Sepsis Induced ALI**, Alfred Ayala, *Rhode Island Hospital* #002
- **Candida albicans Glucan-glycogen Complex is a Novel Fungal PAMP**, Tammy Ozment, *East Tennessee State University* #003

**1:30 – 3:30 pm Presidential Scholars**

**Chairs:**

Cynthia Leifer & Lou Justement

**Location:**

Stanley Park 1

**Graduate Student Finalists**

1:30 pm

**TREM2-deficient Macrophages Fail to Control Early Toxoplasma gondii Infection and Promote Parasite Dissemination**, Hannah Debray, *University of California, Irvine* #011

1:45 pm

**Staphylococcus aureus Citrate Metabolism Shapes Immune Responsiveness During Biofilm Infection**, Nichole Brandquist, *University of Nebraska Medical Center* #012

2:00 pm

**Ras GTPase is Required for Metabolic Reprogramming During TLR-Mediated Trained Innate Immunity**, Mary Oliver, *Vanderbilt University* #013

2:15 pm

**scSpatial ProTECT: Streamlined Workflow for Single-Cell Spatial Proteomic Analysis**, Austin Lowery, *Immunology Center of Georgia* #014

## **Postdoctoral Finalists**

2:30 pm

**Priming the Immune System: Long-Lasting Trained Immunity Induced by Class A CpG-DNA**, Zoe Michael, *Brigham and Women's Hospital #015*

2:45 pm

**Training Innate Immunity to Improve Neutrophil Function after Burn Injury**, Xenia Davis, *Vanderbilt University Medical Center #016*

3:00 pm

**Rapamycin Alters the Bone Marrow Niche and Restores Immune Homeostasis in Trauma and Secondary Infection**, Chyna Lovell, *Harvard Medical School #017*

3:15 pm

**Oxidized MtDNA Activates ER stress-NLRP3 Axis, Amplifying NETosis in Diabetes**, Liang De Wang, *Nanyang Technological University #018*

### **3:30 – 4:00 pm Break** Stanley Park Foyer

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

**4:00 – 5:00 pm**

**Excellence in**

**Chairs:**

Cynthia Leifer & Lou Justement

**Location:**

Stanley Park 1

## **Leukocyte Biology**

4:00 pm

**Innate-like  $\gamma\delta$  CAR-T Cells Targeting HIV in a Primate Model**, Namita Rout, *Tulane University School of Medicine #019*

4:20 pm

**Leukocytes in Human Breastmilk: State-of-the-Art**, Marion Brunck, *Tecnológico de Monterrey #020*

4:40 pm

**Endothelial Cells and Vessel-Associated Macrophages Establish Regulatory Synapses in Inflamed Mucosa**, Ronen Sumagin, *Northwestern University #021*

### **5:00 – 5:15 pm Break** Stanley Park Foyer

Stretch your legs during this quick break before the Legacy Lecture and evening dinner reception.

**5:15 – 5:45 pm**

**SLB Lifetime**

**Chair:**

Lou Justement

**Location:**

Stanley Park 1

## **Honorary Member Lecture**

**The Critical Role of TNFR2 in Immunosuppression Driven by Translocated Microbiota in Colorectal Cancer**, Xin Chen, *Univ of Macau #022*

**5:45 – 6:45 pm**

**SLB Legacy Keynote**

**Chair:**

Alfred Ayala, 2024 Legacy Awardee

**Location:**

Stanley Park 1

## **Lecture**

*SLB Legacy Awardee*

**Inflamm-aging, Intoxication, and Injury: My**

**Journey through Leukocyte Biology**, Elizabeth J. Kovacs, *Univ of Colorado Denver*

### **7:00 pm – 9:00 pm Opening Dinner Reception**, Stanley Park Foyer

Join fellow attendees to celebrate coming together at this dinner reception. Mingle, network, and connect with new, and old, friends.

# Friday, October 31st

## Information Desk

8:00 am – 4:00 pm

Stanley Park Foyer

## Speaker Ready Room

8:00 am – 4:00 pm

Chehalis

*Staffed during breaks only*

## 7:00 am – 9:00 am Breakfast Stanley Park 2

Join fellow attendees for a light breakfast and enjoy our guest session presented by iiSIAR.

*Light breakfast provided.*

## 7:15 am – 9:00 am iiSIAR-Heel Guest

Chair:

Location:

## Symposium: Immunomodulatory

Amiram Ariel

Stanley Park 2

## Ligands in Myeloid Inflammation and Autoimmunity

7:15 am	7:30 am	8:00 am	8:30 am
<b>Introductions</b>	<b>Specialized Pro-resolving Lipid Mediator Production and Action in Inflammation, Regeneration, and Autoimmunity,</b> Jesmond Dalli, <i>Queen Mary University of London</i>	<b>Microglia Development, Phagocytosis and Inflammation are Regulated by PROS1,</b> Tal Burstyn-Cohen, <i>The Hebrew University</i>	<b>Novel Effectors in the Resolution of Inflammation and Tissue Fibrosis,</b> Amiram Ariel, <i>University of Haifa</i>

## 9:00 am – 10:00 am

## Focus 1: Mucosal

Chair:

Location:

## Immunology

Thaddeus Stappenbeck &  
Melanie Martinsen

Stanley Park 1

9:00 am

**Eating Dead Cells can be Proinflammatory,** Thaddeus Stappenbeck, *Cleveland Clinic*

9:30 am

**Neutrophil-Derived Oncostatin M Promotes Endothelial Dysfunction During Oral Bacteria Interaction,** Michelle Visser, *University at Buffalo #023*

9:45 am

**A. muciniphila Restores Intestinal Barrier Integrity and Attenuates Multi-Organ Inflammation and Neutrophil Infiltration,** Mary Grace Murray, *Loyola University Chicago #024*

**10:00 am – 11:00 am**  
**Through the Ages**

**Focus 2: Immunity**

**Chair:**

Martha Alexander-Miller &  
Austin Lowery

**Location:**

Stanley Park 1

10:00 am

**Safe Starts: Strategies to Protect Newborns from Influenza**, Martha Alexander-Miller, *Wake Forest University*

10:30 am

**Activation of Retinal Microglia for Antigen Processing by Adjuvant Alone**, Andrew Taylor, *Boston University Chobanian & Avedisian School of Medicine #025*

10:45 am

**Aging Induces a Senescent-like Phenotype in Neutrophils with Altered Responses to Infection**, Elsa Bou Ghanem, *University at Buffalo #026*

**11:00 am – 12:00 pm**  
**Through Space and Time**

**Focus 3: Omics -**

**Chair:**

Kevin Maloy & Liang De Wang

**Location:**

Stanley Park 1

11:00 am

**Protective Immune Circuits Induced Following Colonization with an Intestinal Bacterial 'Pathobiont'**, Kevin Maloy, *University of Glasgow*

11:30 am

**Unraveling the Leishmania-Induced Alterations of Macrophage Metabolism and Proteome**, Hamlet Acevedo Ospina, *INRS #027*

11:45 am

**Long Chain Fatty Acids May Enhance Neutrophil Mitochondrial Function During Sepsis**, Heather Teague, *National Institutes of Health - National Heart, Lung and Blood Institute #028*

**12:00 – 1:00 pm Poster Session Lunch II** Stanley Park 3

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

*Lunch provided*

**Featured Posters:**

- **Swarm size drives neutrophil mediated clearance of oral candidiasis**, Darpan Saraswat, *University at Buffalo #004*
- **Intestinal Epithelial Cell Specific STAT3 Knock Out Alleviates Ethanol Induced Exacerbation of DSS-Colitis**, Madison Tschann, *Loyola University Chicago #005*
- **SHIP Blocks (MDP+LPS)-Induced Synergy in Macrophages Independent of Catalytic Activity**, Yvonne Pang, *UBC-BCCHR #006*

<b>1:00 pm – 2:00 pm</b>		<b>Focus 4: Host-Pathogen Interactions Type 1</b>	<b>Chair:</b> Paul Kubes & Mary Grace Murray	<b>Location:</b> Stanley Park 1
1:00 pm	1:30 pm	1:45 pm		
<b>Host Pathogen Responses in the Young and Old</b> , Paul Kubes, <i>University of Calgary</i>	<b>The Macrophage ER-shaping Protein CLIMP63 Contributes to the Ability of Leishmania to Colonize Macrophages</b> , Albert Descoteaux, <i>Institut National de la Recherche Scientifique #029</i>	<b>Classical Monocyte-derived Macrophages Are Preferential Targets and Reservoirs for HIV-1 Infection</b> , Timothy Hanley, <i>University of Utah #030</i>		
<b>2:00 pm – 3:00 pm</b>		<b>Focus 5: New Enabling Technologies</b>	<b>Chair:</b> Romain Ballet & Alexandra Lenhard	<b>Location:</b> Stanley Park 1
2:00 pm	2:30 pm	2:45 pm		
<b>Cytometers that Learn: From Diagnosis to Discovery</b> , Romain Ballet, <i>Thinkcyte</i>	<b>The N-Terminus of Ninjurin-1 is Intracellular</b> , Benjamin Steinberg, <i>Hospital for Sick Children #031</i>	<b>Failure of Endogenous Resolution Reprograms Neutrophil Function and Promotes Thromboinflammation</b> , Felicity Gavins, <i>Brunel University of London #032</i>		
<b>3:00– 3:30 pm Break</b> Stanley Park Foyer Join fellow attendees for a quick break to stretch your legs and grab a refreshment.				
<b>3:30 pm – 4:30 pm</b>		<b>Focus 6: Host-Pathogen Interactions- Type 2</b>	<b>Chair:</b> Derek McKay & Anagha Betadpur	<b>Location:</b> Stanley Park 1
3:30 pm	4:00 pm	4:15 pm		
<b>Autologous Macrophage Transfer to Treat Colitis</b> , Derek McKay, <i>University of Calgary</i>	<b>Casting NETs of Harm: Lipofuscin Accumulation Drives NETosis-mediated Liver Fibrosis</b> , Siu Ling (Christine) Wong, <i>Nanyang Technological University Singapore #033</i>	<b>Targeting LxCxE Cleft Pocket of Retinoblastoma Protein in M2-like Immunosuppressive Macrophages Inhibits Ovarian Cancer Progression</b> , Luis Montaner, <i>Wistar Institute #034</i>		



**4:30 pm – 5:30 pm**  
**from T cells**

**Focus 7: Lessons**

**Chair:**

Sarah Crome & Nichole  
Brandquist

**Location:**

Stanley Park 1

4:30 pm

**Engineered Human Innate  
Lymphoid Cells**, Sarah Crome,  
*University Health Network*

5:00 pm

**Role of Double Negative TCR-  
 $\alpha/\beta$ + T Cells in Oral Mucosal  
Immunity**, Fatemeh Momen-  
Heravi, *University of California,  
San Francisco #035*

5:15 pm

**Impact of Myeloid-Derived  
Suppressor Cells on T cell  
Function in Children with S.  
aureus Infection**, Jordan  
Brauner, *Nationwide Children's  
Hospital #036* (Presidential  
Scholars Postdoc Merit Awardee)

**5:30 pm – 6:30 pm**  
**Homeostasis**

**Focus 8: Toward**

**Chair:**

Julia Bohannon & Madison  
Tschann

**Location:**

Stanley Park 1

5:30 pm

**Trained Immunity as a Strategy  
for Preventing Nosocomial  
Infections**, Julia Bohannon,  
*Vanderbilt University*

6:00 pm

**Neutrophil Progenitor  
Transplantation Attenuates  
Chemotherapy-Induced  
Neutropenia**, Melanie  
Martinsen, *Brown University  
#037* (Presidential Scholars Graduate  
Student Merit Awardee)

6:15 pm

**Dnase1l3 Protects B6 Mice  
From Neurological Lupus-Like  
Complications**, Peter Keyel,  
*Texas Tech University #038*

**6:30 – 8:30 pm AI in Immunology**

*A Professional Development Dinner Workshop*

Stanley Park 2

**Open to all attendees**

Join this workshop organized by the Professional Development and Members in Transition and Training Committees. A panel will present thoughts on different areas of using AI in immunology such as in data analysis, writing and more.

*Buffet dinner provided*

# Saturday, November 1st

## Information Desk

8:00 am – 3:00 pm

Stanley Park Foyer

## Speaker Ready Room

8:00 am – 12:00 pm

Chehalis

Staffed during breaks only

## 8:30 – 9:30 am Flash Talk Breakfast

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

Chair:

TBA

Location:

Stanley Park 2

**The Role of CD73 during Influenza A Virus/S. pneumoniae Co-Infection**, Alexandra Lenhard, *University at Buffalo #007*

**Impact of Sex Hormones and Inflammatory Challenge in Neutrophil Metabolomics**, Matthew Kays, *West Virginia University #008* (Presidential Scholars Graduate Student Merit Awardee)

**Deficient T Cell Receptors Reduces Activation in Late Memory CD8+ T cells**, Ko-Eun Lee, *Vanderbilt University #UG01* (Presidential Scholar Undergraduate Merit Awardee)

**Sex-Based Differences in Pneumococcal Conjugate Vaccine Efficacy**, Anagha Betadpur, *University at Buffalo #009*

**Single Cell Sequencing Reveals Pro-inflammatory Immune Regulators in Preterm Birth**, Miguel Hernandez-Rios, *University of Florida #010* (Presidential Scholars Postdoc Merit Awardee)

**Resistin-like Molecules: Friend or Foe during Influenza?**, Jasmine Quah, *University of Wisconsin-Madison #LB01* (Presidential Scholars Graduate Student Merit Awardee)

## 9:30 – 11:00 am Feature III: Metabolomics

- **TOO MUCH**

Chairs:

LeeAnn Allen & James Lederer

Location:

Stanley Park 1

9:30 am

**Metabolic Changes Required for Monocyte to Macrophage Transition**, Edward Pearce, *Johns Hopkins University*

10:00 am

**Empowering Immunity: Metabolic Insight into Immune Cell Function**, Ramon Klein Geltink, *University of British Columbia*

10:30 am

**Regulation of Immunity and Inflammation by the Immunometabolite**, Luke O'Neill, *Trinity College*

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

Stanley Park 1

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 Stanley Park 3

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

*Lunch provided*

### Featured Posters:

- **The Role of CD73 during Influenza A Virus/S. pneumoniae Co-Infection**, Alexandra Lenhard, *University at Buffalo* #007
- **Impact of Sex Hormones and Inflammatory Challenge in Neutrophil Metabolomics**, Matthew Kays, *West Virginia University* #008 (Presidential Scholars Graduate Student Merit Awardee)
- **Sex-Based Differences in Pneumococcal Conjugate Vaccine Efficacy**, Anagha Betadpur, *University at Buffalo* #009
- **Single Cell Sequencing Reveals Pro-inflammatory Immune Regulators in Preterm Birth**, Miguel Hernandez-Rios, *University of Florida* #010 (Presidential Scholars Postdoc Merit Awardee)
- **Deficient T Cell Receptors Reduces Activation in Late Memory CD8+ T cells**, Ko-Eun Lee, *Vanderbilt University* #UG01 (Presidential Scholars Undergraduate Student Merit Awardee)
- **Urine Metabolite Markers of Febrile Attacks Due to PFAPA Syndrome**, Nathan Millward, *University of British Columbia* #UG02
- **Resistin-like Molecules: Friend or Foe during Influenza?**, Jasmine Quah, *University of Wisconsin-Madison* #LB01 (Presidential Scholars Graduate Student Merit Awardee)

## 12:30 pm – 2:00 pm Feature IV: Inborn

Chairs:

Location:

### Errors of Immunity – *TOO LITTLE*

Laura Sly & Vidula Vachharajani

Stanley Park 1

12:30 pm

**Human Host Factors in Severe Viral Diseases**, Anne Puel, *INSERM*

1:00 pm

**Immune Dysregulation in Inborn Errors of Immunity**, Catherine Biggs, *University of British Columbia*

1:30 pm

**Host-Microbiota Interactions in Inflammatory Intestinal Disease**, Gabriel Nunez, *University of Michigan*

**SLB Council Meeting (Part 2): 3:00 pm - 6:00 pm – Marine (by invitation only)**