Pre-Program

Wednesday, October 4th

1:00 – 6:00 pm Aging, Inflammation and Fibrosis Satellite Symposium Sponsored by MedImmune and National Institutes on Aging (NIA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>1:00 pm</td>
<td>Opening Remarks</td>
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<tr>
<td>1:15 pm</td>
<td>Inflammation in Tissue Regeneration and Fibrosis, Tom Wynn, NIAID</td>
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<tr>
<td>2:00 pm</td>
<td>Granzyme B in Aging and Impaired Collagen Remodeling, David Granville, University of British Columbia</td>
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<td>2:30 pm</td>
<td>Interconnected Stress Responses in Aging and Fibrosis of the Lung, Ana Mora, University of Pittsburgh</td>
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<tr>
<td>3:00 pm</td>
<td>Break</td>
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<tr>
<td>3:15 pm</td>
<td>Inflammatory Cells in the Response to Sterile Damage: New Roles for Unexpected Players, Fabio Rossi, University of British Columbia</td>
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<tr>
<td>3:45 pm</td>
<td>Therapeutic Targeting of Age-associated Pathological Mechanisms in Fibrotic Lung Disease, Louise Hecker, University of Arizona</td>
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<tr>
<td>4:15 pm</td>
<td>Discussion</td>
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<tr>
<td>5:00 pm</td>
<td>Reception</td>
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Chairs: Jane Conner, MedImmune; Lynne Murray, MedImmune; Elizabeth J. Kovacs, Uni. of Colorado Denver; Rebecca Fuldner, NIA

Location: MacKenzie

The author requests the audience refrain from tweeting the content of this presentation
50th Annual Meeting of
The Society for Leukocyte Biology
“Leukocyte Memory: Health and Disease”

October 5-7, 2017
The Westin Bayshore, Vancouver, Canada
Organizers: Liwu Li and Lionel Ivashkiv

Thursday, October 5th

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<th>Registration</th>
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<td>8:00 am – 6:00 pm</td>
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<td>10:00 am – 6:00 pm</td>
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<td>Bayshore Foyer</td>
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<td>Bayshore Foyer</td>
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9:00 – 11:00 am  Poster Flash Talks:
Highlighted Poster Session Presentations

**Neutrophil Immune Evasion:** Co-Chair: Madison Collins
Understanding the Regulation of Virulence in Staphylococcus aureus during Innate Immune Evasion, Madison Collins, Montana State University, Travel Awardee Abstract 64

The Role of Neutrophils and Extracellular Adenosine in Shaping Age-driven Susceptibility to Streptococcus pneumoniae Lung Infection, Elsa Bou Ghanem, Tufts University, Travel Awardee Abstract 80

**Innate Mechanisms of Human Disease:** Co-Chair: Abigail Cannon
IVIg and IVIg Activated Macrophages as an IL-10 Dependent Novel Therapeutic Strategy for Inflammatory Bowel Disease, Lisa Kozicky, University of Alberta, Abstract 42

Alcohol Increases Susceptibility to Enteropathogens in Mice with DSS-Induced Colitis, Abigail Cannon, Loyola University Chicago, Travel Awardee Abstract 76

**Chairs:** Silvia Uriarte, University of Louisville; Stephania Libreros, Harvard; Juhi Bagaitkar, University of Louisville

**Location:** Bayshore Grand Ballroom Salon A

Blunted Neutrophil Priming in Children with Type 1 Diabetes and Diabetic Ketoacidosis, Blake Nichols, University of Texas Southwestern Medical Center, Travel Awardee Abstract 48

Adaptation to Complex Host Niches by Fungal Pathogen Candida albicans Drives Resistance to Neutrophil Attack, J. Pedro Lopes, Umeå Universitet, Travel Awardee Abstract 53

Inflammatory Modulation Induced by Crystalloid Intravenous Infusion in Healthy Subjects, Jean-Alexandre Sauvé, University of Montreal Abstract 57

Identification of S100A14 as a Potential Mechanism of Innate Immune Resistance in HIV-exposed Sero-negative Injection-drug Users (HESN-IDU), Krystal Colon-Rivera, Wistar Institute, Travel Awardee Abstract 71

⚠️ The author requests the audience refrain from tweeting the content of this presentation
Molecular Mechanisms of Innate and Adaptive Responses: Co-Chair: Yanhui Cai
Serpinb6a Cooperates with Serpinb1a in Protecting Myeloid Cells from Cathepsin G-mediated Death in vivo, Sabrina Sofia Burgener, University of Bern, Travel Awardee Abstract 46

Charaterization and Consensus of the Conventionally Housed C57BL/6J Antibody Repertoire, Trisha Rettig, Kansas State University, Travel Awardee Abstract 70

Rab17 Mediates Differential Antigen Sorting Following Efferocytosis and Phagocytosis, Charles Yin, Western University, Ontario, Travel Awardee Abstract 75

Establishment of Non-resolving Low-grade Inflammatory Monocytes Due to Autophagy Disruption by Super-low Dose LPS, Allison Rahtes, Virginia Tech, Travel Awardee Abstract 74

11:00 am - 1:00 pm MTTG (Members in Transition and Training) Session Lunch: High Throughput Technologies – Perspectives and Insights Pre-registration required

Somalogic - Somamer Based Technology, Dan Drolet, Somalogic

Beyond the Phenotype and Genotype: Defining Functional Immunology with Ex Vivo assays and High Resolution, high speed, Imaging Flow Cytometry, Ben Alderete, MilliporeSigma

1:00 - 2:30 pm Welcome and Plenary I: Memory of Tissue Location and Micro-environment

Chairs: Liwu Li, Virginia Tech; Lionel Ivashkiv, Hospital for Special Surgery

Location: Bayshore Grand Ballroom Salon A&B

1:00 pm Nature and Nurture of Macrophage Identity and Function, Chris Glass, University of California, San Diego

1:30 pm The Power of One: Immunology in the Age of Single Cell Genomics, Ido Amit, Weizmann Institute

2:00 pm Negative Regulation of Inflammation, Carla Rothlin, Yale University

2:30 - 3:15 pm SLB Presidential Student Nominees

Chair: Lee-Ann Allen, University of Iowa

Location: Bayshore Grand Ballroom Salon A&B

2:30 pm Phospholipase D2 (PLD2) is Crucial for Oxidized Cholesterol Uptake and Foam Cell Formation in Atherosclerotic Plaques, Ramya Ganesan, Wright State Uni. Abstract 01

2:45 pm Neutrophil Superoxide Production is Inhibited by Staphylococcus aureus SaeR/S-regulated Factors, Fermin Guerra, Montana State University Abstract 02

3:00 pm Metformin Rewires the Pro-inflammatory Metabolic and Functional Adaptation of Human Inflammatory Airway PMNs, Osric Forrest, Emory University Abstract 03

The author requests the audience refrain from tweeting the content of this presentation
3:15 - 4:00 pm  SLB Presidential Jr. Faculty/Postdoc Nominees

3:15 pm  Selective Inhibition of T Cells by Myeloid-Derived Suppressor Cells from Septic Patients, Julie Stortz, University of Florida  Abstract 04

3:30 pm  Human Neutrophils Exhibit Delayed Apoptosis and Secrete IL-1ß after Phagocytosis of Neisseria gonorrhoeae, Christine Cho, University of Iowa  Abstract 05

3:45 pm  Insights into Lysis of Human Neutrophils after S. aureus Ingestion, Silvie Kremserova, University of Iowa  Abstract 06

4:00 – 4:15 pm  Coffee Break, Bayshore Foyer

4:15 - 5:30 pm  Senior Level Awards

4:15 pm Dolph Adams Awardee:
Inflammascalones and Pathogen Sensing, Thirumala-Devi Kanneganti, St Jude Children's Research Hospital  Abstract 07

4:40 pm Jeanette Thorbecke Awardee:
The TLR4 Agonist Monophosphoryl Lipid A Mediates Broad Protection Against Infection via Augmentation of Innate Antimicrobial Cell Functions, Julia Bohannon, Vanderbilt University  Abstract 08

5:05 pm Women & Diversity Paper of the Year Awardee:
Commensal Microbes and the Eye, Inside and Out, Rachel Caspi, NIH/NEI  Abstract 09

5:30 - 6:30 pm  50th Anniversary Presentation
Keynote speakers Mary Dinauer, Past SLB Treasurer; Joe Oppenheim, Past JLB Editor-in-Chief; and Peter Ward, Past President.

6:30 - 7:30 pm  Opening Reception, Bayshore Foyer/Pool Garden

7:30 - 8:30 pm Keynote Lecture
Bonazinga Award Winner, Sponsored by Accurate Chemical slan+-Monocyte/slan+-Macrophage/slanDC/slan+-cell: The True Story about this Cell Type and its Involvement in Human Cancer, Marco A. Cassatella, University of Verona

⚠️ The author requests the audience refrain from tweeting the content of this presentation
## Friday, October 6th

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<th>Time</th>
<th>Registration</th>
<th>Speaker Ready Room</th>
<th>Exhibits</th>
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<tr>
<td>8:00 am – 4:00 pm</td>
<td>Bayshore Foyer</td>
<td>8:00 am – 4:00 pm Fraser</td>
<td>9:00 am – 4:00 pm Bayshore Foyer</td>
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### 7:00 – 9:00 am

**Networking Breakfast**  
*Stanley Park Ballroom Salon 1&2*  
Enjoy breakfast while networking with invited speakers (Mashkoor A. Choudhry, Loyola University; Mary Dinauer, Washington Univ Sch Med; Lewis Lanier, UCSF; Peng Liu, University of North Carolina at Chapel Hill; and Ira Tabas, Columbia University), exhibitors, or your own group.

### OR

**Professional Development Breakfast: Career Counseling, Guidance, and Preparation for a Job Interview**  
*Stanley Park Ballroom Salon 3*  
Pre-registration required  
Chair: Claire Doerschuk, Uni of N. Carolina Sch of Med  
Featuring: John Lombardo, Career Counselor  
A special session targeted to students, postdocs, and young faculty members providing two segments 1) Developing your core message / “Elevator Speech” and 2) Job interview preparation: How to interview your next boss.

### 9:00 – 10:30 am Plenary II: Epigenetic Mechanisms of Memory in Innate Immune Cell Activation

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<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Chairs</th>
<th>Function</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>Bayshore Grand Ballroom  A&amp;B</td>
<td>Domenico Mavilio, Uni. Of Milan; Ilhem Messaoudi, University of California at Irvine</td>
<td>Lionel Ivashkiv, Hospital for Special Surgery</td>
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<tr>
<td>9:30 am</td>
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<td>Mihai Netea, NIMGEN</td>
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<td>10:00 am</td>
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**10:30 – 10:45 am Coffee Break, Bayshore Foyer**

⚠️The author requests the audience refrain from tweeting the content of this presentation.
10:45 am - 12:15 pm  Concurrent Sessions 1 & 2

Concurrent Session 1: Microbiome in Leukocyte Memory
Chairs: Andrew Gewirtz, Georgia State University; Diane Bimczok, Montana State University
Location: Bayshore Grand Ballroom Salon A&B

Featured Speaker:
10:45 am  Gut Microbiota, Chronic Inflammation, and Metabolic Syndrome
Andrew Gewirtz, Georgia State University

Selected Talks:
11:15 am  The mRNA and microRNA Transcriptome of Lung Neutrophils during Streptococcus pneumoniae Pneumonia in Mice, John Gomez, University of North Carolina, Travel Awardee Abstract 10

11:30 am  Helicobacter pylori Modulates the Lifespan and Cell Death Mechanisms of Human Neutrophils, Laura Whitmore, University of Iowa Abstract 11

11:45 am  Novel Pro-Resolving Receptor Axis Activates Intracellular Signaling and Phagocytosis, Stephania Libreros Ruiz, Harvard Medical School, Travel Awardee Abstract 12

12:00 pm  The Impact of the Microbiome on the Immuno-modulation and Immuno-suppression in Severely Burned Patients, Zeid Kuzbari, Université de Montréal Abstract 13

Concurrent Session 2: Systems Analyses of Leukocyte Memory
Chairs: Christina Leslie, Memorial Sloan Kettering Cancer Center; Reto Asmis, UTHSCSA
Location: Bayshore Grand Ballroom Salon C

Featured Speaker:
10:45 am  Epigenetic Memory in T lymphocytes
Christina Leslie, Memorial Sloan Kettering Cancer Center

Selected Talks:
11:15 am  Dyslipidemic Diet-Induced Monocyte “Priming” and Dysfunction in Non-Human Primates is Triggered by Rising Plasma Cholesterol and Accompanied by Altered Histone Acetylation, Reto Asmis, UTHSCSA Abstract 14

11:30 am  Systemic Approach Analysis of Long Noncoding RNAs’ Function in Infection, Min Wu, University of North Dakota Abstract 15

11:45 am  Transition of NAD Salvage to De Novo Biosynthesis Sustains Memory of Endotoxin Tolerance During an Acute Inflammatory Response, Tiefu Liu, Wake Forest University School of Medicine Abstract 16

12:00 pm  Maternal Pregravid Obesity Remodels the DNA Methylation Landscape of Cord Blood Monocytes Disrupting its Inflammatory Program, Suhas Sureshchandra, University of California Irvine, Travel Awardee Abstract 17

12:15 - 2:15 pm  Poster Session I Lunch, Bayshore Grand Ballroom Salon D - F
Enjoy lunch while viewing poster presentations of ODD abstract numbers.

2:15 – 3:45 pm  Plenary III: Epigenetic Memory in Lymphocytes

2:15 pm  Natural Killer Cells Remember, Lewis Lanier, UCSF

2:45 pm  Genomic Clues to Lymphocyte Function, Yuka Kanno, NIAMS/NIH

3:15 pm  Transcriptional and Epigenetic Regulation of CD8 T cell Immunity, Ananda Goldrath, UCSD

The author requests the audience refrain from tweeting the content of this presentation
3:45 – 4:00 pm  Coffee Break, Bayshore Foyer

4:00 - 5:30 pm  Concurrent Sessions 3 & 4

Concurrent Session 3: Leukocyte Memory and Drug Development

Chairs: Matthew Sleeman, MedImmune; Erica Stone, Wistar Institute
Location: Bayshore Grand Ballroom Salon A&B

Featured Speaker:
4:00 pm Using Biologics to Turn Bad Memories into Good? Matthew Sleeman, MedImmune

Selected Talks:
4:30 pm BCL6 Inhibition Represses HIV Infection ex vivo by Suppression of Immune Activation, Yanhui Cai, Wistar Institute, Travel Awardee Abstract 18

4:45 pm Easy Isolation of Particle-free Human ILC2s from Peripheral Blood Mononuclear Cells, Fran Antignano, StemCell Technologies Inc. Abstract 19

5:00 pm Dissecting Mechanisms of beta-glucan Trained Immunity, Cody Stothers, Vanderbilt University Abstract 20

Concurrent Session 4: Systems Biology of Adaptive Immune Memory

Chairs: Ellen Rothenberg, California Institute of Technology; Bill Luscinskas, Partners Healthcare
Location: Bayshore Grand Ballroom Salon C

Featured Speaker:
4:00 pm Transcription Factor Action in the Gene Regulatory Network for T-cell Development, Ellen Rothenberg, California Institute of Technology

Selected Talks:
4:30 pm Acute Activation of CD4+ Memory Tregs by Traumatic Injury, James Lederer, Harvard Medical School Abstract 22


5:00 pm Characterization of a Novel Subset of Tissue-resident NKP46pos Vd1 Intestinal Intraepithelial Lymphocytes Playing a Key Role in Gut Immune Homeostasis and in the Physiopathology of Colon-cancer, Domenico Mavilio, Uni. Of Milan Abstract 24

5:15 pm The Decisive Role of TNF-TNFR2 Pathway in the Activation of CD4+Foxp3+ Regulatory T cells: Implications in Tumor Immunotherapy, Xin Chen, University of Macau Abstract 25

6:30 - 10:00 pm 50th Anniversary Cruise

Harbor Dinner Cruise, ticket required
Join your fellow attendees and enjoy a dinner cruise conveniently located right outside the conference hotel.
Take in the beautiful views, network, and reflect on 50 years of SLB!
### Saturday, October 7th

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#### 7:00 - 9:00 am

**Networking Breakfast**  
*Stanley Park Ballroom Salon 1&2*  
Enjoy breakfast while networking with invited speakers (Marco A. Cassatella, University of Verona; Lionel Ivashkiv, Hospital for Special Surgery; Liwu Li, Virginia Tech; Mitzi Nagarkatti, University of South Carolina School of Medicine; and Carla Rothlin, Yale University), exhibitors, or your own group.

**OR**

**Women & Diversity Breakfast: Managing Up, Down and Across: Effective Strategies for Obtaining the Resources You Need**  
*Stanley Park Ballroom Salon 3*  
Pre-registration required  
Chair: Amanda Brown, John’s Hopkins, Keynote Speaker: Elizabeth J. Kovacs, University of Colorado Denver  
A special session for anyone interested in effective techniques for managing up, down, and across including how to handle crucial conversations, effective self-advocacy strategies, and controlling emotions.

#### 9:00 - 10:30 am  
**Concurrent Sessions 5 & 6**

**Concurrent Session 5: Metabolism in Leukocyte Memory**

- **Chairs:** Danica Chen, University of California, Berkley; Vidula Vachharajani, Wake Forest Univ Sch of Med  
- **Location:** Bayshore Grand Ballroom Salon A&B  
- **Featured Speaker:**  
  9:00 am *Mitochondrial Metabolic Checkpoint, Stem Cell Aging and Rejuvenation*, Danica Chen, University of California, Berkley  
- **Selected Talks:**  
  9:30 am *Mitochondrial Size/Function Controls Level of Viral Immunity in Young Children*, David Verhoeven, Iowa State Uni. Abstract 26  
  9:45 am *Tissue-Resident Myeloid-Derived Suppressor Cells in Adipose from Lean Mice*, Katlin Stivers, University of Louisville Abstract 27  
  10:00 am *Oxidation Modulates NAD+-sensor Sirtuin 2 during Obesity with Sepsis*, Vidula Vachharajani, Wake Forest Uni Sch of Med Abstract 28  
  10:15 am *Modification of Macrophage Metabolism and Memory by TLR4 Agonists*, Edward Sherwood, Vanderbilt University Abstract 29

**OR**

**Concurrent Session 6: Leukocyte Memory in Autoimmune Disease**

- **Chairs:** Virginia Pascual, Baylor University Medical Center; Xiaoyu Hu, Tsinghua University  
- **Location:** Bayshore Grand Ballroom Salon C  
- **Featured Speaker:**  
  9:00 am *Novel Insights into Human Lupus Pathogenesis*, Virginia Pascual, Baylor University Medical Center  
- **Selected Talks:**  
  9:30 am *Regulation of Inflammation by Notch Signaling*, Xiaoyu Hu, Tsinghua University Abstract 30  
  9:45 am *Ocular Immune Privilege Selects for Programmed Innate Memory-Tolerance*, Andrew Taylor, Boston University Sch of Med Abstract 31  
  10:00 am *The Role of MALT1 in Macrophages*, Mahdis Monajemi, British Columbia Children’s Hospital Res. Institute Abstract 32  
  10:15 am *Pegylated ifn-alpha-2b Decreases Latent HIV Measures in Art-Suppressed Subjects*, Luis Montaner, Wistar Institute Abstract 33

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10:30 – 10:45 am  **Coffee Break, Bayshore Foyer**

10:45 am - 12:15 pm  **Concurrent Sessions 7 & 8**

**Concurrent Session 7: Engineering Analyses of Leukocyte Memory**

**Chairs:** Daniel Irimia, *Harvard University*; Cynthia Leifer, *Cornell University*

**Location:** Bayshore Grand Ballroom Salon A&B

**Featured Speaker:**
10:45 am *Probing Neutrophil Memory Using Microfluidic Devices, During Infections and Sepsis*, Daniel Irimia, *Harvard University*

**Selected Talks:**
- 11:15 am *Regulation of Macrophage Function by the Adhesive Microenvironment*, Wendy Liu, *University of California Irvine*  
  Abstract 34
- 11:30 am *Immunological Explorations of Ex Vivo Lung Perfusion and the Pall LeukoGuard® Filter*, David Holden, *University of Florida*  
  Abstract 35
- 11:45 am *TLR Signaling in Macrophages is Regulated by Extracellular Substrate Stiffness and Rho-associated Coiled Coil Kinase (ROCK1/2)*, Cynthia Leifer, *Cornell University*  
  Abstract 36
- 12:00 pm *Quantifying Effects of Neutrophil Memory on Migration Patterns using Microfluidic Platforms and ODE Modeling of the Mechanistic Molecular Pathways*, Brittany Boribong, *Virginia Tech, Travel Awardee*  
  Abstract 37

**Concurrent Session 8: Best of Journal of Leukocyte Biology**

**Chairs:** Luis Montaner, *Wistar Institute*; Mark Wallet, *University of Florida Health*

**Location:** Bayshore Grand Ballroom Salon C

**Featured JLB Authors:**
10:45 am *Δ⁹-Tetrahydrocannabinol Attenuates Allogeneic Host-versus-graft Response and Delays Skin Graft Rejection through Activation of Cannabinoid Receptor 1 and Induction of Myeloid-derived Suppressor Cells*, Mitzi Nagarkatti, *University of South Carolina School of Medicine.*

OR

11:15 am *Tumor-reactive Immune Cells Protect Against Metastatic Tumor and Induce Immunoediting of Indolent but not Quiescent Tumor Cells*, Kyle Payne, *Wistar Institute*

11:45 am *Myeloid-derived Suppressor Cells Regulate T cell and B cell Responses during Autoimmune Disease*, Peng Liu, *University of North Carolina at Chapel Hill*

12:15 - 2:15 pm  **Poster Session II Lunch, Bayshore Grand Ballroom Salon D - F**

Enjoy lunch while viewing poster presentations of EVEN abstract numbers.

2:15 – 2:45 pm **Member Business Meeting & Presidential Award Announcements, Bayshore Grand Ballroom Salon A&B**

Chairs Robert A. Clark & Lee-Ann Allen share news about the society and journal. Announcements of Presidential award winners along with honorary society awards and recognition of SLB Travel Awardees.

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<tr>
<td>2:45 - 4:15 pm</td>
<td><strong>Plenary IV: Leukocyte Memory in Chronic Disease</strong></td>
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<tr>
<td>2:45 pm</td>
<td>Macrophage Efferocytosis in Inflammation Resolution and Atherosclerosis</td>
<td>Ira Tabas, Columbia University</td>
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<tr>
<td>3:15 pm</td>
<td>Mesenteric Macrophages,</td>
<td>Gwendalyn Randolph, Washington University in St. Louis, School of Medicine</td>
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<tr>
<td>3:45 pm</td>
<td>MicroRNA Shuttling during Acute Lung Injury</td>
<td>Holger Eltzschig, UT Health/ McGovern Medical School</td>
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<td>4:15 – 4:30 pm</td>
<td><strong>Coffee Break, Bayshore Foyer</strong></td>
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<td>4:30 - 6:00 pm</td>
<td><strong>Plenary V: Leukocyte Memory in Infection and Injury</strong></td>
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<td>4:30 pm</td>
<td>Inflammatory Monocyte Differentiation in Metabolic Vascular Disease</td>
<td>Hong Wang, Temple University School of Medicine</td>
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<td>5:00 pm</td>
<td>Gastrointestinal Response to Alcohol and Trauma</td>
<td>Mashkoor Choudhry, Loyola University</td>
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<tr>
<td>5:30 pm</td>
<td>Dynamic Programming and Memory of Innate Leukocytes in Acute and Chronic Diseases</td>
<td>Liwu Li, Virginia Tech</td>
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