

## “Myeloid Cells: Development, Environment and Inflammation” PROGRAM



October 13-16, 2018

Sheraton Grand at Wild Horse Pass, Chandler, Arizona

Chairs: Darren Lee, *Oklahoma University College of Medicine, Dean McGee Eye Institute*,  
Egil Lien, *University of Massachusetts Medical School & David Underhill, Cedars Sinai*

### Saturday, October 13, 2018

Satellites - Multiple Member led special interest satellite programs. [Learn more...](#)

### Sunday, October 14, 2018

Poster Flash Talks - Selected abstracts by junior attendees provide short talks organized by topic. Consider submitting to be considered during [abstract submission](#).

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MTTG (Members in Transition and Training) Session Lunch - Topic: State-of-the-art high-resolution imaging modalities (more details to come in spring 2018) organized by the [SLB Members in Transition and Training Group](#)

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Award Talks - [SLB Presidential Finalists](#) (Student and Junior Faculty/Postdoc categories) and [IEIS Young Investigator](#) awards. SLB's [Dolph Adams](#) and [G. Jeannette Thorbecke](#) award talks. IEIS' [Alois H. Nowotny](#), [Frederick B. Bang](#) and [Sheldon E. Greisman](#) award presentations.

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Keynote Lecture – SLB Keynote Awardee, *More than a license to kill: the many roles of the leukocyte NADPH oxidase*, Mary Dinauer, Washington University in St. Louis

### Monday, October 15, 2018

Professional Development Workshop Breakfast – Topic: Team Science Check back for detail of this educational session organized by the [SLB Professional Development Committee](#)

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#### Plenary II: Myeloid Cell Development, Differentiation, and Novel Functions

- *TLR signaling, macrophage development, and Macrophage Activation Syndrome*, Jessica Hamerman, Benaroya Research Institute
- *Dendritic cell development and function*, Ken Murphy, Washington University St. Louis
- *Monocyte heterogeneity and origins*, Helen Goodridge, Cedars Sinai
- *Unconventional processing of IL-1 beta by neutrophils*, Eric Pearlman, University of California, Irvine

## **Monday, October 15, 2018 con't**

### **Poster Session Lunch**

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#### **Concurrent Sessions 1-4:**

##### **Leukocytes in Immune Privilege Sites**

- *Neuroprotective specialization for microglia in degenerative diseases of the retina*, Daniel Saban, Duke University School of Medicine
- *Obesity and Autoimmune Uveitis*, Darren Lee, Oklahoma University College of Medicine, Dean McGee Eye Institute

##### **Best of *JLB* and *Innate Immunity***

- *Mediators and molecular pathways involved in the regulation of neutrophil extracellular trap formation mediated by activated platelets*, Mirta Schattner, Instituto de Medicina Experimental (IMEX)
- Top cited author from *Innate Immunity TBA*
- [SLB W&D Paper of the Year Awardee](#)
- [IEIS Theresa L. Gioannini Awardee](#)

##### **Inflammatory Signaling in Leukocytes**

- *Initiation and Regulation of Innate Immunity*, Jonathan Kagan, Boston Children's Hospital, Harvard Medical School
- *Cytotoxic lymphocytes activate caspase-7 in target cells to clear bacteria*, Ed Miao, University of North Carolina School of Medicine, Chapel Hill

##### **Neutrophils and Phagocyte Functions**

- *F. tularensis BLPs and TLR1 regulate human neutrophil lifespan*, Lee-Ann Allen, University of Iowa, Carver College of Medicine
- *The cytoskeleton and the pericellular coat dictate the responsiveness of phagocytic receptors*, Sergio Grinstein, University of Toronto

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##### **Plenary III - Metabolism & Physiology in Inflammation and Immunity**

- *Host-microbe interactions: harnessing co-evolution to treat disease*, Janelle Ayres, Salk Institute
- *Fueling Phagocyte Functions*, Daniel McVicar, NIH/NCI
- *Innate Immune Recognition and Signaling in *Drosophila**, Neal Silverman, University of Massachusetts Medical School
- *Mechanisms of chronic inflammation associated with microbial dysbiosis in a Rhesus Macaque model of environmental enteric disease*, Ilhem Messaoudi, University of California, Irvine

## **Tuesday, October 16, 2018**

**Women and Diversity Workshop Breakfast – Topic: Effectively Communicating Our Science to the Public** Check back for details of this educational session organized by the [SLB Women and Diversity Committee](#).

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### **Plenary IV - The Microbiome in Inflammation and Immunity**

- *Commensal fungal metabolism and host immunity*, Yan Shi, Tsinghua University
  - *Host Immunity to Commensal Fungi*, David Underhill, Cedars Sinai
  - *Microbial Dysbiosis drives age-associated inflammation which impairs myeloid development*, Dawn Bowdish, McMaster University
  - Title TBA, Speaker TBA
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### **Poster Session Lunch**

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### **Concurrent Sessions 5-6:**

#### **Ligands of Innate Immunity: Structure & Function**

- *Recent examples of structure and structure-function analysis of LPS and lipid A*, Otto Holst, Research Center Borstel
- *Structure Matters – Modification of the Lipid A Component of Lipopolysaccharide (LPS) LPS Alters Host Immune Responses*, Bob Ernst, University of Maryland

#### **Host Receptors and Microbes**

- *Single-cell Dynamics of Pyroptosis in M. tuberculosis infected macrophages*, Trude Flo, Norwegian University of Science and Technology
  - *Mechanisms controlling innate immune responses to nucleic acids*, Kensuke Miyake, University of Tokyo, Institute of Medical Science
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### **Plenary V - Inflammation and cell death in host-pathogen interactions**

- *Detecting and Responding to Microbial Viability*, Julia Blander, Weill Cornell Medicine
- *Bacterial type III secretion system effectors regulate of IL-1 $\beta$  production and cell death*, Egil Lien, University of Massachusetts Medical School
- *Sensing and Reacting to Pathogens at the Skin Barrier*, Gabriel Nunez, University of Michigan
- *Novel strategies for targeting innate immune responses to influenza*, Stefanie Vogel, University of Maryland School of Medicine