“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.

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

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

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

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

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*
- *IEIIS 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

**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.

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

Poster Session Lunch

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

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-1b 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