



## “Tissue Specific Immunity: Translating our Discoveries”



November 15-18, 2019, Westin Copley Place, Boston, MA

*Chairs: Cherie Butts, Biogen and Silvia Uriarte, University of Louisville*

### Friday, November 15, 2019

**Satellites** - Multiple Member led special interest satellite programs.

**Alcohol and Immunology (AIRIG) Satellite** – Chairs Elizabeth J. Kovacs & Mashkooor Choudhry

- Clinical studies on alcohol and immunity,
- Tissue-specific immunity in the lung & liver
- Tissue-specific immunity in the gut & brain

**Advanced Imaging Approaches to Visualize Immune Cell Behavior** – Chairs Margarida Barroso & Sergio Catz



Sponsored by the Histochemical Society

- Sergio Catz, The Scripps Research Institute, *Application of Total Internal Reflection Fluorescence and Super Resolution Microscopy to the Study of Neutrophil Function*
- Margarida Barroso, Albany Medical College, *Fluorescence Lifetime FRET Based Approaches to Visualize Immune Cell Function*
- Klaus Ley, La Jolla Institute for Immunology, *TITLE TBD*
- Mauricio Terebiznik, University of Toronto, *TITLE TBD*

**Immune Regulation, Autoimmunity and Infection** – Chairs: Rachel Caspi, PhD & WanJun Chen, MD

- Philip Murphy, NIAID, NIH, *Treatment and Cure Strategies for WHIM Syndrome Immunodeficiency*
- Munir Akkaya, NIAID, NIH, *How TLR9 Signaling Shapes the Survival, Differentiation and the Metabolism of B Cells*
- Mate Tolnay, CDER, FDA, *Human FCRL3 Binds Secretory IgA, an Essential Component of Mucosal Immunity, and Restrains Regulatory T Cell Activity*
- Daniela Verthelyi, FDA, *Modeling Neurotropic Viruses in Immunocompetent Mice: What Have We Learned So Far*
- Rachel Caspi, NEI, NIH, *Th17 Effector Regulation in Ocular Inflammatory Disease*
- Billur Akkaya, NIAID, NIH, *Tregs Orchestrate Antigen Specific Suppression via Stripping Cognate Peptide-MHCII from the DC Surface*
- WanJun Chen, NIDCR, NIH, *D-mannose induces regulatory T cells and suppresses autoimmunity and inflammation*



### **Immunomodulatory Cell Death** – Chair: Ben A. Croker, Ph.D.

- Ben A. Croker, Boston Children's Hospital, Harvard Medical School, *Effector Functions of Neutrophil Necroptosis*
- Andrew Oberst, University of Washington, *Necroptosis Minus Cell Death Equals Antiviral Immunity in the Brain*
- Kristopher Sarosiek, Harvard T.H. Chan School of Public Health, *Title TBA*
- Kate Schroder, The University of Queensland, *New Insights into Non-canonical Inflammasome Signaling and Functions in Host Defense*

Biogen Tours – Information and sign-up information to come early 2019

### **Saturday, November 16, 2019**

**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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**Speed Networking Career Roundtables** A round table format to foster discussions between scientists from academic, government, and industry and individuals seeking career advice. *Pre-registration required*

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**MTTG (Members in Transition and Training) Workshop Lunch: *Building your Profile: CVs, NIH Biosketches and LinkedIn*** (more details to come in spring 2019) organized by the [SLB Members in Transition and Training Group](#)

### **Plenary I: Welcome and Program Overview**

- **Translating Discoveries into Meaningful Therapies: Key Questions to Address and Why**, Cherie Butts, *Biogen*
- **Neutrophil Cytoplasts Promote TH17 Inflammation in Asthma**, Bruce Levy, *Brigham & Women's Hospital*
- **A Rendezvous with Microglia**, Richard Ransohoff, *Harvard Medical School and Third Rock Ventures*
- **Neutrophils as Targets in Autoimmune Vasculitis: New Concepts**, Veronique Witko-Sarsat, *INSERM*

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**Award Talks** - [SLB Presidential Finalists](#) (Student and Junior Faculty/Postdoc categories). SLB's award talks [Dolph Adams](#), [G. Jeannette Thorbecke](#), [Women and Diversity Paper of the Year](#), and JLB's top cited authors

- **Macrophage Sensing of Cell Death**, Kenneth Rock, *UMASS*
- **Myeloid Cell-specific Deletion of Cebpb Decreases Sepsis-induced Immunosuppression in Mice**, Mohamed Elgazzar, *East Tennessee State University College of Medicine*

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**SLB Legacy Keynote Lecture** – 2019 Legacy Awardee, Ann Richmond, *Vanderbilt University*, **Targeted Therapies that Enhance Response to Immune Checkpoint Inhibitors**



## Sunday, November 17, 2019

**Women and Diversity Workshop Breakfast – *Advocating For Your Goals: The Art of Saying No, So You Can Say Yes*** Check back for details of this educational session organized by the [SLB Women and Diversity Committee](#).

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### Plenary II: Mucosal Immunity

- **Immunity and Inflammation at the Oral Mucosa: Mechanisms and Host-modulation Approaches**, George Hajishengallis, *University of Pennsylvania*
  - **Neutrophilic Inflammation and Gonococcal Pathogenesis**, Alison Criss, *University of Virginia*
  - **Developing Alternative Approaches for Induction of Mucosal Immunity**, Prosper Boyaka, *OSU*
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### Concurrent Sessions 1-2:

#### Changes in Tissue Immunity with Aging

- **Advanced Age and the Gut-Lung Axis**, Elizabeth J. Kovacs, *University of Colorado Denver*

#### Acquired Immunity in Cancer

- **Cancer and the Microbiome**, Giorgio Trinchieri, *NIH*
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### Plenary III: Autoimmune Disease

- **NETs – The Second Function of Chromatin**, Arturo Zychlinsky, *Max Planck Institut*
  - **Regulation of Inflammation**, Kate Fitzgerald, *UMASS*
  - **Localized Immunomodulation with a Novel Form of Fas Ligand for Tolerance Induction to Allogeneic Islet Grafts**, Esma Yolcu, *University of Louisville*
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### Concurrent Sessions 3-4:

#### Resolution of Immune Responses

- **Type 2 Immunity in Tissue Regeneration and Fibrosis**, Tom Wynn, *Pfizer*

#### Immunity in the Lung

- **Innate Immunity and Lung Host Defense during Pneumonia**, Claire Doerschuk, *University of North Carolina*
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**Poster Session reception** – Browse poster presentations during an evening reception

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## **Monday, November 18, 2019**

**Professional Workshop Breakfast – Lab Management** Check back for details of this educational session organized by the [SLB Professional Development Committee](#)

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

#### **Innate Immune Response to Infection**

- **The Inner Life of the Neutrophil: From Vesicular Trafficking to Inflammation**, Sergio Catz, *Scripps Institute*

#### **Asthma**

- **Tuning T cell Responses during Lung Inflammation**, Avery August, *Cornell University*
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### **Concurrent Sessions 7-8:**

#### **Acquired Immune Response to Infection**

- **Dengue Virus Immunity Increases Zika Virus-induced Damage During Pregnancy**, Jean Lim, *Mount Sinai*

#### **Innate Immunity in Cancer**

- **Advances on the Molecular Regulation of Gene Expression in Human Neutrophils**, Marco Cassatella, *University of Verona*
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**Poster Session Lunch** - Browse poster presentations during lunch

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**SLB Member Business Meeting and Award Presentations** – Learn about SLB’s activities and status and join us in announcing and congratulating several awardees.

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### **2019 Program Retrospective –**

- **A New Chapter at the Oral Mucosa: Neutrophils Coping with the Emerging Oral Pathogens**, Silvia Uriarte, *University of Louisville*
- Outlook for future implications of the research presented plus onsite poster award announcements and prize drawings.