“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 & Mashkoor Choudhry

- Majid Afshar, MD, MS, Loyola University Chicago, Blood and urine biomarkers for identifying alcohol misuse in trauma patients
- Leon G. Coleman, Jr., MD, PhD, University of North Carolina, Chapel Hill, Neuroimmune Mechanisms of Alcoholic Neurodegeneration and Negative Affect.
- Rebecca McCullough, PhD, University of Colorado Denver, Targeting the resolution of inflammation with a novel cell-based therapy in Alcoholic Liver Disease.
- Vasilis Vasiliou, PhD, Yale University, TITLE TBA
- H. Joe Wang, PhD, NIAAA, Funding and training opportunities

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

Impact of Aging on Tissue Resident Immune Cells

Chairs: Rebecca Fulmer, NIA, NIH

- David Koelle, University of Washington, Skin-resident T Cell Responses to VZV Infection and Vaccination
- Susan Swain, University of Massachusetts Medical School, Tissue Resident Memory Cells and Aging
- Deep Dikhit, Yale University, Adipose Tissue Resident Leukocytes in Aging and Inflammation
- Joanne Turner, Texas Biomedical Research Institute, Exploring the Impact of Inflammaging on Immune Function During M. tb Infection
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, Enhancing Anti-cancer Immune Responses by Modulating Tumor Cell Death
- 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.

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

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

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

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.

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

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
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

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

Poster Session reception – Browse poster presentations during an evening reception

Monday, November 18, 2019

Professional Workshop Breakfast – Lab Management Check back for details of this educational session organized by the SLB Professional Development Committee

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
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

**Poster Session Lunch** - Browse poster presentations during lunch

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

**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.