

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Resolution of Inflammation (X7)

Scientific Organizers: Carla V. Rothlin, Kodi S. Ravichandran, Ashley W. Seifert and Gabrielle Fredman

Supported by the Directors' Fund

Lipidomics of Health and Disease (X8)

Scientific Organizers: Michael J.O. Wakelam, Steffany A.L. Bennett and Jean E. Schaffer

March 22-25, 2021 • Fairmont Chateau Whistler • Whistler, BC, Canada

Supported by the Directors' Fund

Scholarship Deadline: December 16, 2020 / Abstract Deadline: January 7, 2021 / Discounted Registration Deadline: January 25, 2021

MONDAY, MARCH 22

Arrival and Registration

TUESDAY, MARCH 23

Welcome and Keynote Address (X7)

Speaker to be Announced

Welcome and Keynote Address (X8)

Sarah Spiegel, Virginia Commonwealth University, USA
Talk Title to be Announced

Rethinking Myeloid Cells in Resolution, Repair and Regeneration I (X7)

Kodi S. Ravichandran, University of Virginia, USA
Can We Chat and Resolve This? Metabolite-Based Communication between Myeloid Cells and Others

Elina I. Zuniga, University of California, San Diego, USA
Dendritic Cell Adaptations to Persistent Pathogen Exposure

Florent Ginhoux, Singapore Immunology Network, Singapore
Macrophage Heterogeneity in Tissue Repair

Short Talks Chosen from Abstracts

Lipid Regulation of Metabolic Disorders I (X8)

Jean E. Schaffer, Harvard University, USA
Lipids and Metabolic Stress

Scott A. Summers, University of Utah, USA
Ceramides and Metabolic Stress

Julian L. Griffin, University of Cambridge, UK
Lipids and Cardiovascular and Steatotic Risk

Short Talks Chosen from Abstracts

Rethinking Myeloid Cells in Resolution, Repair and Regeneration II (X7)

Ashley W. Seifert, University of Kentucky, USA
Macrophage Heterogeneity during Musculoskeletal Regeneration in Spiny Mice

Will Wood, University of Edinburgh, UK
Understanding Inflammatory Cell Migration in Drosophila

Benedicte Chazaud, Université Claude Bernard Lyon, France
Efferocytosis and the Resolution of Inflammation during Muscle Regeneration

Short Talks Chosen from Abstracts

Lipid Regulation of Metabolic Disorders II (X8)

Christine Des Rosiers[†], Montreal Heart Institute (MHI), Canada
Talk Title to be Announced

Speaker to be Announced

Huiyong Yin, Shanghai Institute of Nutrition and Health, China
Oxidized Lipids Regulating Atherosclerosis and Metabolism

Maria Fedorova, University of Leipzig, Germany
Epilipidomics Signature of Metabolic Diseases

Short Talks Chosen from Abstracts

Poster Session 1

WEDNESDAY, MARCH 24

'Forget Me Not': Importance of Stromal Cells from Inflammation to Resolution (X7)

Christopher D. Buckley, University of Birmingham, UK
Fibroblast Heterogeneity in Inflammation and Tissue Damage

Valerie Horsley, Yale University, USA
Myofibroblast Proliferation and Heterogeneity in Skin Repair

Carla V. Rothlin, Yale University, USA
Integration of Cell Death Sensing in Tissue Repair Responses

Ophir Klein, University of California, San Francisco, USA
Regenerative Strategies of the Intestinal Epithelium

Short Talks Chosen from Abstracts

Lipids in Cancer I (X8)

Michael J.O. Wakelam, Babraham Institute, UK
Cancer Lipidomics and Lipid Unsaturation

John E. Burke, University of Victoria, Canada
Lipid Protein Interaction in Cancer

Julie D. Saba, University of California, San Francisco, USA
Sphingosine Phosphate Lyase Insufficiency Syndrome: Features and Treatment of an Atypical Sphingolipidosis

Short Talks Chosen from Abstracts

Workshop: Lipidomics and Lipidmaps (X8)

Short Talks Chosen from Abstracts

Interface of Inflammation, Resolution and Disease (X7)

Nicola L. Harris, Monash University, Australia
Emerging Concepts on Type 2 Immunity in Homeostasis, Helminth Infections and Tissue Repair

Ira Tabas, Columbia University, USA
Efferocytosis in Inflammation Resolution

Bruce D. Levy, Brigham and Women's Hospital, USA
Leukocyte SPM Pathways in Human Sepsis

Short Talks Chosen from Abstracts

Lipids in Cancer II (X8)

Phillip T. Hawkins, Babraham Institute, UK
P13 kinase/PTEN Prostate Cancer, Lipid Structure

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Simon T. Barry, AstraZeneca, UK
P13 Kinase and Cancer

Short Talks Chosen from Abstracts

Poster Session 2

THURSDAY, MARCH 25

Neuroimmune Interactions in Resolution of Inflammation (X7)

Daniel Mucida, Rockefeller University, USA
Neuro-Immune Interactions in the Gut

Diana Bautista, University of California, Berkeley, USA
Neuroimmune Interactions in Chronic Itch

Jonathan Kipnis, University of Virginia, USA
Advantageous Brain Drain: Lymphatics of the Brain and its Communication with the Immune System

Phillip Popovich, Ohio State University, USA
Resolution of Inflammation in Spinal Cord Injury

Short Talks Chosen from Abstracts

Lipids in Inflammation and Infection (X8)

Valerie B. O'Donnell, Cardiff University, UK
Oxidized Lipids and Platelet Function

Gregory D. Fairn, University of Toronto, Canada
Lipid Signals in Response to Bacterial Infection

Bruce D. Levy, Brigham and Women's Hospital, USA
Polyisoprenyl Phosphate Remodeling Regulates Dendritic Cell Antigen Uptake and Lung Inflammation

Robert V. Stahelin, Purdue University, USA
Lipids and Flaviviruses

Nihal Altan-Bonnet, NHLBI, National Institutes of Health, USA
Extracellular Vesicle Membranes: Vehicles of en masse Transport and Immune Suppression

Short Talks Chosen from Abstracts

Emerging Concepts in Inflammation and Resolution (X7)

Yasmine Belkaid, NIAID, National Institutes of Health, USA
Commensal Specific T Cell in Tissue Repair Responses

Judith Campisi, Buck Institute for Research on Aging, USA
Cellular Senescence in Tissue Repair and Regeneration

Gabrielle Fredman, Albany Medical Center, USA
New Mechanisms for Specialized Pro-Resolving Mediators in Atherosclerosis and Aging

Short Talks Chosen from Abstracts

Lipids Neurodegeneration I (X8)

Steffany A.L. Bennett, University of Ottawa, Canada
Glycerolipids and Neurodegeneration

Gilbert Di Paolo, Denali Therapeutics Inc., USA
Lipids and Neuronal Disorders

Vytas A. Bankaitis, Texas A&M University, USA
Inositol lipid Signaling and Development of the Mammalian Brain

Tony Futerman, Weizmann Institute of Science, Israel
Sphingolipids and Gaucher Disease

Short Talks Chosen from Abstracts

Translating Inflammation and Resolution to Therapies (X7)

Thomas A. Wynn, Pfizer, USA

Targeting Type 1 and Type 2 Fibrosis towards Tissue Regeneration

Bart N. Lambrecht, VIB, Ghent University, Belgium
It is Crystal Clear: Antibody-Based Resolution of Pathogenic Crystals in the Asthmatic Lung

Charles N. Serhan, Brigham and Women's Hospital, USA
The Resolution of Inflammation: Origins and New Directions

Short Talks Chosen from Abstracts

Lipids Neurodegeneration II (X8)

Eamonn James Dickson, University of California, Davis, USA
Cholesterol and Phosphoinositides in Neurodegeneration

Matthias E. Lauer[†], Roche Innovation Center Basel, Switzerland
Composition of Lewy Bodies, Therapeutic Opportunities

Penelope Hallett, Harvard Medical School, USA
Lipid Metabolism Alters A-Synucleinopathy

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X7)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X8)

FRIDAY, MARCH 26

Departure