

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

The Resolution of Inflammation in Health and Disease (C6)

March 24-28, 2018 • Royal Dublin Society • Dublin, Ireland

Scientific Organizers: Catherine Godson, Ira Tabas and Mauro Perretti

Supported by the Directors' Fund

Abstract & Scholarship Deadline: November 29, 2017 / Abstract Deadline: December 21, 2017 / Discounted Registration Deadline: January 18, 2018

SATURDAY, MARCH 24

Arrival and Registration

SUNDAY, MARCH 25

Welcome and Keynote Address

Charles N. Serhan, Brigham and Women's Hospital, USA
Lipid Mediators of the Resolution of Inflammation

Fundamentals of Inflammation Biology – Cells, Mediators and Mechanisms in the Resolution of Inflammation I

Derek W. Gilroy, University College London, UK
Bridging the Gap between Adaptive and Innate Immune Responses to Resolve Inflammation

Daniele Piomelli, University of California, Irvine, USA
NAAA-Regulated Lipid Amide Signaling and the Control of (Neuro)Inflammation

Sarah R. Walmsley, University of Edinburgh, Queen's Medical Research Institute, UK
Differential Regulation of Leukocyte Function by HIF-1 and HIF-2

Short Talk(s) Chosen from Abstracts

Poster Session 1

Workshop 1: Resolvomics: Potential and Pitfalls

Short Talks Chosen from Abstracts

Fundamentals of Inflammation Biology – Cells, Mediators and Mechanisms in the Resolution of Inflammation II

Alberto Mantovani, Humanitas University, Italy
Macrophage Plasticity and Polarization

Marc Peters-Golden, University of Michigan, USA
Vesicular SOCS as a Vector of Macrophage to Epithelial Cell Crosstalk at the Respiratory Surface

Carla V. Rothlin, Yale University, USA
TAM Receptor Signaling in Resolution of Inflammation

Short Talk Chosen from Abstracts

MONDAY, MARCH 26

Keynote Address

Christopher K. Glass, University of California, San Diego, USA
Nature and Nurture of Tissue Resident Macrophages

Diseases of Dysregulated Resolution and Repair

Lina Hsiu Kim Lim, National University of Singapore, Singapore
Annexins in Metastatic Breast Cancer: Regulation of Inflammation and Tumorigenesis

Bruce Cronstein, New York University, Langone Medical Center, USA
Adenosine, Adenosine Receptors and the Joint

Gabrielle Fredman, Albany Medical Center, USA
Dysregulation of Resolution Pathways in Chronic Inflammatory Disease

Short Talk(s) Chosen from Abstracts

Workshop 2: Experimental Models of Resolution

Short Talks Chosen from Abstracts

Diabetes and the Resolution of Inflammation

Gökhan S. Hotamisligil, Harvard University, USA
Metaflammation, Organelle Function and Metabolic Homeostasis

Yun Sok Lee, University of California, San Diego, USA
Tissue Hypoxia in Metaflammation and Type 2 Diabetes

Catherine Godson, University College Dublin, Ireland
Lipoxins and Lipoxin Analogues: Resolving Inflammation, Suppressing Fibrosis in Diabetic Complications

Short Talk Chosen from Abstracts

Poster Session 2

TUESDAY, MARCH 27

Keynote Address

Lalita Ramakrishnan, University of Cambridge, UK
Host Genotype Dictates Inflammation, Resolution and Repair

Regulation of Defense, Resolution and Repair

Ira Tabas, Columbia University, USA
Defective Inflammation Resolution in Atherosclerosis: Mechanisms and Therapeutic Opportunities

Muredach P. Reilly, Columbia University, USA
Genomic Discoveries in Metaflammation

Maksim Plikus, University of California, Irvine, USA
Reactivating Embryonic-Like Regeneration Programs in Adult Skin Wounds

Short Talk(s) Chosen from Abstracts

Workshop 3: Nano Technologies and Targeting Receptors to Resolve Inflammation

Short Talks Chosen from Abstracts

Infection

Bruce D. Levy, Brigham and Women's Hospital, USA
Specialized Pro-Resolving Mediators: Endogenous Regulators of Infection

Asma Nusrat, University of Michigan, USA
Wnt-Related Proteins in Epithelial Repair

Mauro Martins Teixeira, Universidade Federal de Minas Gerais, Brazil
The Impact of Resolution Pathways in Acute and Chronic Infections

Short Talk Chosen from Abstracts

Poster Session 3

WEDNESDAY, MARCH 28

Resolution and Repair or Fibrosis?

Nathalie Vergnolle, INSERM UMR-1043, France
Proteinase Activated Receptors in Inflammatory Networks

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Robert F. Schwabe, Columbia University, USA

The Fibrotic Response to Inflammation and Cell Death in Liver Disease

Jörg H.W. Distler, University of Erlangen-Nuremberg, Germany

Nur77 and Regulation of Kidney and Dermal Fibrosis

Shelia M. Violette, Atlas Venture, USA

Novel Targets in Fibrosuppression

Short Talk(s) Chosen from Abstracts

Therapeutic Innovation in Resolution

Mauro Perretti, Queen Mary University of London, UK

From Resolution of Inflammation to Resolution Pharmacology:

Therapeutic Innovation in Inflammation

Arthur Christopoulos, Monash University, Australia

Harnessing GPCR Allosterity and Bias For New Targeting

Makoto Arita, Keio University, Japan

Genetics and Lipidomics of Omega-3 Polyunsaturated Fatty Acid

Biology

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

THURSDAY, MARCH 29

Departure