

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Integrating Metabolism and Immunity (E4)

Scientific Organizers: Hongbo Chi, Erika L. Pearce, Richard A. Flavell and Luke A.J. O'Neill

Sponsored by Novo Nordisk A/S

Cell Death and Inflammation (K2)

Scientific Organizers: Seamus J. Martin and John Silke

May 29-June 2, 2017 • Royal Dublin Society • Dublin, Ireland

Sponsored by Novo Nordisk A/S.

Abstract & Scholarship Deadline: January 31, 2017 / Abstract Deadline: March 1, 2017 / Discounted Registration Deadline: March 29, 2017

MONDAY, MAY 29

Arrival and Registration

TUESDAY, MAY 30

Welcome and Keynote Address (E4)

Diane J. Mathis, Harvard Medical School, USA
T Cell Control of Organismal Metabolism

Welcome and Keynote Address (K2)

Ruslan M. Medzhitov, HHMI/Yale University School of Medicine, USA
Tissue Homeostasis and Inflammation

Glucose Metabolism to Fuel Immune Cell Functions (E4)

Jeffrey C. Rathmell, Vanderbilt University, USA
Glut1 and Metabolic Reprogramming in CD4 T Cell Subsets

Luke A. J. O'Neill, Trinity Biomedical Sciences Institute, Ireland
The Warburg Effect in LPS Activated Macrophages

Edward J. Pearce, Max Planck Institute of Immunobiology and Epigenetics, Germany
Glucose Metabolism in Alternative Macrophage Activation

Short Talk(s) Chosen from Abstracts

Inflammatory Responses to Cell Death I (K2)

Kenneth L. Rock, University of Massachusetts Medical School, USA
DAMPs and Inflammation

David Wallach, Weizmann Institute of Science, Israel
Cell Death and Inflammation

John Silke, Walter and Eliza Hall Institute of Medical Research, Australia
RIPKs Cell Death and Inflammation

Short Talk(s) Chosen from Abstracts

Transcriptional and Epigenetic Control in Immune Metabolism (E4)

Douglas R. Green, St. Jude Children's Research Hospital, USA
c-Myc and Metabolic Regulation of T Cell Activation and Differentiation

John J. O'Shea, NIAMS, National Institutes of Health, USA
Regulatory Nodes in T Cells

Mihai G. Netea, Radboud University, Netherlands
Metabolic and Epigenetic Reprogramming in Myeloid Cells

Short Talk Chosen from Abstracts

Inflammatory Responses to Cell Death II (K2)

Peter Vandenabeele, VIB, Ghent University, Belgium
Necroptosis and Inflammation

Laurence Zitvogel, Institut Gustave Roussy, France
Immunogenic Cell Death

Seamus J. Martin, Trinity College Dublin, Ireland
Cell Death, Cytokines and Inflammation

Short Talk Chosen from Abstracts

Poster Session 1

WEDNESDAY, MAY 31

Fatty Acids and Metabolic Signaling (E4)

Erika L. Pearce, Max Planck Institute of Immunobiology and Epigenetics, Germany
Fatty Acid Metabolism in Memory T Cells

Dan R. Littman, HHMI/New York University School of Medicine, USA
Regulation of ROR γ t Function in Lymphocytes

Tim D. Sparwasser, Institute for Infection Immunology, Germany
Fatty Acids Synthesis and T Cell Differentiation

Vijay K. Kuchroo, Brigham and Women's Hospital, Harvard Medical School, USA
Metabolic Pathway that Regulate Development of Pathogenic Th17 Cells and Autoimmunity

Short Talk(s) Chosen from Abstracts

Inflammatory Signaling I (K2)

Mads Gyrd-Hansen, University of Oxford, UK
Linear Chain Ubiquitination and Inflammatory Signaling

Henning Walczak, University College London, Cancer Institute, UK
TRAIL and Tumor Metastasis

Marion MacFarlane, MRC Toxicology Unit, UK
Death Receptor Signaling

Pascal Meier, Institute of Cancer Research, UK
Ubiquitin Signaling in Cell Death and Inflammation

Short Talk(s) Chosen from Abstracts

Mitochondria as Platforms for Key Intracellular Signaling (E4)

Navdeep S. Chandel, Northwestern University, USA
Mitochondria and Reactive Oxygen Species Signaling in T Cell Activation

Gerald S. Shadel, Yale University, USA
Mitochondrial Stress and Antiviral Innate Immunity

Richard A. Flavell, HHMI/Yale University School of Medicine, USA
Mitochondria and Caspases in the Fate Decisions between Inflammation and Apoptosis

Short Talk Chosen from Abstracts

Inflammatory Signaling II (K2)

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Ana Martin-Villalba, DKFZ German Cancer Research Center, Germany

CD95 Inflammatory Activities: A Tale of Myeloid Cells and Vessels

Domagoj Vucic, Genentech, Inc., USA

IAPs and Inflammatory Signaling

Peter Gough, GlaxoSmithKline, USA

Therapeutic Targeting of RIPK1 Signalling and Cell Death

Short Talk Chosen from Abstracts

Poster Session 2

THURSDAY, JUNE 1

Interplay between mTOR/AMPK Signaling and Cell Metabolism (E4)

Doreen A. Cantrell, University of Dundee, UK

Serine-Threonine Kinases in T Cell Biology

Jonathan D. Powell, Johns Hopkins University School of Medicine, USA

mTOR Signaling in T Cell Fate and Metabolism

Hongbo Chi, St. Jude Children's Research Hospital, USA

mTOR and Metabolic Control of Lymphocyte Development

Russell G. Jones, McGill University, Canada

AMPK and Metabolic Adaptation

Short Talk(s) Chosen from Abstracts

Tissue Responses to Dying Cells (K2)

Julie Magarian Blander, Mount Sinai School of Medicine, USA

Macrophage Responses to Dying Cells

Eric H. Baehrecke, University of Massachusetts Medical School, USA

Autophagic Cell Death and Tissue Involution

Ed C. Lavelle, Trinity College Dublin, Ireland

Role of IL-1 Family Members in Responses to Cell Death and Adjuvanticity

Shigekazu Nagata, IFRc, Osaka University, Japan

Recognition of Dead and Dying Cells

Short Talk(s) Chosen from Abstracts

Immune-Adipose Interaction in Inflammation and Metabolic Disease (E4)

Axel Kallies, Walter and Eliza Hall Institute of Medical Research, Australia

Transcriptional Regulators in Adipose Tissue Treg Cells

Lydia Lynch, Harvard Medical School, USA

Non-Immune Functions of Adipose iNKT Cells

Richard M. Locksley, HHMI/University of California, San Francisco, USA

Type 2 Immunity and Tissue Inflammation

Short Talk Chosen from Abstracts

Stress Signals and Inflammation (K2)

Junying Yuan, Harvard Medical School, USA

The Role of RIPK1 in Inflammatory Cell Death in Neurodegenerative Diseases

Kevin M. Ryan, Beatson Institute for Cancer Research, UK

p53 and Cytokine Crosstalk

Erwin F. Wagner, Spanish National Cancer Research Centre, Spain

Inflammation in the Tumor Environment

Short Talk Chosen from Abstracts

Poster Session 3

FRIDAY, JUNE 2

Nutrient Sensing and Signaling in Immune Microenvironment (E4)

Giuseppe Matarese, Università degli Studi di Napoli Federico II, Italy

Leptin Signaling in Treg Cells and Autoimmune Diseases

Susan M. Kaech, Yale University School of Medicine, USA

T Cell Metabolism in Tumor Microenvironment

Janelle S. Ayres, The Salk Institute for Biological Studies, USA

Gut Microbe, Growth Factor Signaling and Metabolic Regulation of Wasting Disease

Mala Maini, University College London, UK

Metabolic Regulation of Virus-Induced Immunopathology by Myeloid-Derived Suppressor Cells

Alternative Cell Death Modalities and Inflammation (K2)

Arturo Zychlinsky, Max Planck Institute for Infection Biology, Germany

NETosis and Inflammation

Thomi Brunner, University of Konstanz, Germany

Locally Produced Glucocorticoids as Modulators of Inflammation

Kim Newton, Genentech, USA

Regulation of Inflammation by RIPK1

Kate Schroder, University of Queensland, Australia

Pyroptosis and Inflammation

Short Talk(s) Chosen from Abstracts

Microbiota Metabolism and Immune Cell Functions (E4)

Yasmine Belkaid, NIAID, National Institutes of Health, USA

Commensal Dendritic Cell Interactions

David Artis, Cornell University, USA

Immune Regulation of Metabolic Homeostasis in Health and Disease

Wendy S. Garrett, Harvard School of Public Health, USA

Microbial Metabolites and Treg Cell Homeostasis

Short Talk(s) Chosen from Abstracts

Inflammation and Cancer (K2)

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Frances R. Balkwill, Barts Cancer Institute, Queen Mary University of London, UK

Inflammation in the Tumor Environment

Scott W. Lowe, Memorial Sloan-Kettering Cancer Center, USA

Inflammatory Regulators and Cancer Progression

Closing Keynote Address (K2)

Douglas R. Green, St. Jude Children's Research Hospital, USA

Cell Death as a Key Modulator of Inflammation: What Are the Key Factors?

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (E4)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (K2)

SATURDAY, JUNE 3

Departure