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# Integrating Metabolism and Immunity (E4)

joint with the meeting on Cell Death and Inflammation (K2)

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

May 29-June 2, 2017

Royal Dublin Society, Dublin, Ireland

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Registered attendees of one meeting in a joint pair may participate in sessions of the other, pending space availability.

#### **DEADLINES:**

Scholarship Deadline: Jan 31, 2017 [details] Discounted Abstract Deadline: Jan 31, 2017 [details]

Abstract Deadline: Mar 1, 2017 [details]

Discounted Registration Deadline: Mar 29, 2017 [details]

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## Conference Program Print | View meeting in 12 hr (am/pm) time

The meeting will begin on Monday, May 29 with registration from 16:00 to 20:00 and a welcome mixer from 18:00 to 20:00. Conference events conclude on Friday, June 2 with a closing plenary session and keynote address from 17:00 to 19:00, followed by a social hour and entertainment. We recommend return travel on Saturday, June 3 in order to fully experience the meeting.

#### MONDAY, MAY 29

16:00-20:00	Arrival and Registration	Concert Hall Foyer
18:00—20:00	Welcome Mixer  No registration fees are used to fund alcohol served at this function.	

### TUESDAY, MAY 30

08:00-09:00	Breakfast	<u>Individual Hotel</u>
09:00-10:30	Welcome and Keynote Session (Joint)	Hall 3
	Registered attendees can view abstracts starting on 04/29/2017	
	Diane J. Mathis, Harvard Medical School, USA	
	T Cell Control of Organismal Metabolism	
	Ruslan M. Medzhitov, HHMI/Yale University School of Medicine,	
	USA	
	Tissue Homeostasis and Inflammation	
	Coffee Break	
10:50-00:45	Glucose Metabolism to Fuel Immune Cell Functions	Hall 3
	Registered attendees can view abstracts starting on 04/29/2017	

<u>Jeffrey C. Rathmell</u>, Vanderbilt University, USA Glut1 and Metabolic Reprogramming of 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

#### Following Session is for Cell Death and Inflammation (K2)

### 10:50-12:45 Inflammatory Responses to Cell Death I

Registered attendees can view abstracts starting on 04/29/2017

Concert Hall

Kenneth L. Rock, University of Massachusetts Medical School, IISA

DAMPs and Inflammation

<u>David Wallach</u>, Weizmann Institute of Science, Israel <u>Cell Death and Inflammation</u>

<u>John Silke</u>, Walter and Eliza Hall Institute of Medical Research, Australia

Beware the MLKL, the Jaws that Bite: Uffish Thoughts on the Role of Necroptosis and Inflammation

Short Talk(s) Chosen from Abstracts

12:45–16:00 On Own for Lunch

12:45–13:00 **Poster Setup** <u>Hall 4</u>

13:00–22:00 **Poster Viewing** Hall 4

14:00-15:30 Workshop 1: Molecular Controls of Cell Metabolism in

the Immune System

Short Talks Chosen from Abstracts

15:30–16:00 Coffee Available Hall 4

16:00-18:00 Transcriptional and Epigenetic Control in Immune Hall 3

Metabolism

Registered attendees can view abstracts starting on 04/29/2017

**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

### Following Session is for Cell Death and Inflammation (K2)

16:00-18:00 Inflammatory Responses to Cell Death II

Registered attendees can view abstracts starting on 04/29/2017

Peter Vandenabeele, VIB, Ghent University, Belgium

Necroptosis and Inflammation

Speaker to be Announced

Concert Hall

Seamus J. Martin, Trinity College Dublin, Ireland

Neutrophil-derived Proteases Escalate Inflammation through Activation of IL-1 Family Cytokines Released via Necrosis

Short Talk Chosen from Abstracts

18:00—19:00 Social Hour with Lite Bites

Hall 4

No registration fees are used to fund alcohol served at this

function.

18:30—21:00 **Poster Session 1** 

Hall 4

### WEDNESDAY, MAY 31

08:00-09:00	Breakfast	<u>Individual Hotel</u>
08:30-09:00	Poster Setup	Hall 4
09:00-17:00	Poster Viewing	Hall 4
09:00—12:00	Fatty Acids and Metabolic Signaling Registered attendees can view abstracts starting on 04/29/2017	Hall 3
	Erika L. Pearce, Max Planck Institute of Immunobiology and Epigenetics, Germany Mitochondrial Priming By CD28	
	Dan R. Littman, HHMI, New York University School of Medicine, USA Regulation of RORgt Function in Lymphocytes	
	Coffee Break	
	<u>Tim D. Sparwasser</u> , Institute for Infection Immuology, Germany Fatty Acid Metabolism in the Development and Function of T Cell Subsets	
	<b>Vijay K. Kuchroo,</b> Brigham and Women's Hospital, Harvard Medical School, USA Metabolic Pathway that Regulate Development of Pathogenic Th17 Cells and Autoimmunity	

### Following Session is for Cell Death and Inflammation (K2)

09:00-12:00 Inflammatory Signaling I

Registered attendees can view abstracts starting on 04/29/2017

Concert Hall

 $\underline{\textit{Mads Gyrd-Hansen}}, \ \textit{University of Oxford, UK}$ 

Short Talk(s) Chosen from Abstracts

EMBO Young Investigator Lecture: Regulation of Ubiquitination

in Inflammatory Signaling

Henning Walczak, University College London, Cancer Institute,

UK

TRAIL and Tumor Metastasis

Coffee Break

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

12:00-13:00 Lunch

Hall 4

13:00-15:30	Poster Session 2	Hall 4
15:30-16:00	Coffee Available	Hall 4
16:00—18:00	Mitochondria as Platforms for Key Intracellular Signaling Registered attendees can view abstracts starting on 04/29/2017	Hall 3
	Navdeep S. Chandel, Northwestern University, USA Mitochondria as Signaling Organelles	
	<b>Gerald S. Shadel,</b> Yale School of Medicine, 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	

### Following Session is for Cell Death and Inflammation (K2)

16:00-18:00 Inflammatory Signaling II

Registered attendees can view abstracts starting on 04/29/2017

Concert Hall

 $\underline{\text{Ana Martin-Villalba}}, \, \text{DKFZ German Cancer Research Center}, \, \\ \text{Germany}$ 

CD95 Inflammatory Activities: A Tale of Myeloid Cells and

Vessels

Domagoj Vucic, Genentech, USA

Regulation of Inflammatory Cell Death Signaling by RIP kinases

 $\textbf{Peter Gough,} \ \mathsf{GlaxoSmithKline,} \ \mathsf{USA}$ 

The rapeutic Targeting of RIPK1 Signalling and Cell Death

Short Talk Chosen from Abstracts

18:00 On Own for Dinner

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### THURSDAY, JUNE 1

08:00-09:00	Breakfast	<u>Individual Hotel</u>
08:30-09:00	Poster Setup	<u>Hall 4</u>
09:00-17:00	Poster Viewing	Hall 4
09:00—12:00	Interplay between mTOR/AMPK Signaling and Cell Metabolism	Hall 3
	Registered attendees can view abstracts starting on 04/29/2017	
	<u>Giuseppe Matarese</u> , Università degli Studi di Napoli Federico II, Italy	
	Metabolic Control of Immune Tolerance and Autoimmune Diseases	
	<b>Jonathan D. Powell</b> , Johns Hopkins University School of Medicine, USA  mTOR Signaling in T Cell Fate, Activation and Metabolism	
	Coffee Break	
	Hongbo Chi, St. Jude Children's Research Hospital, USA mTORC1 signaling and systems proteomics in T cell metabolic	

reprogramming

Russell G. Jones, McGill University, Canada

AMPK and Metabolic Adaptation

Short Talk(s) Chosen from Abstracts

### Following Session is for Cell Death and Inflammation (K2)

09:00-12:00 Tissue Responses to Dying Cells

Registered attendees can view abstracts starting on 04/29/2017

Concert Hall

Concert Hall

Julie Magarian Blander, Weill Cornell Medicine, Cornell

University, USA

Phagocyte Responses to Dying Cells

Eric H. Baehrecke, University of Massachusetts Medical School,

Inflammatory Signaling, Autophagy and Dying Cell Clearance

Coffee Break

Ed C. Lavelle, Trinity College Dublin, Ireland Role of IL-1 Family Cytokines in Adjuvanticity

Shigekazu Nagata, IFReC, Osaka University, Japan Exposure of Phosphatidylserine to the Cell Surface

Short Talk(s) Chosen from Abstracts

12:00-13:00 Lunch Hall 4 13:00-15:30 Poster Session 3 Hall 4 15:30-16:00 Coffee Available Hall 4 16:00-18:00 Immune-Adipose Interaction in Inflammation and Hall 3 Metabolic Disease

Registered attendees can view abstracts starting on 04/29/2017

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

Molecular Regulation of Adipose Tissue-Resident Regulatory T Cell Development

Lydia Lynch, Harvard Medical School, USA

The Interdependence of Systemic and Cellular Metabolism in Innate Immunity

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

Innate Helper Type 2 Cells (ILC2s) and Intestinal Homeostasis

Short Talk Chosen from Abstracts

### Following Session is for Cell Death and Inflammation (K2)

16:00-18:00 Stress Signals and Inflammation

Registered attendees can view abstracts starting on 04/29/2017

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,

Stress Signaling in Inflammation and Cancer

http://www.keystonesymposia.org/index.cfm?e=web.Meeting.Program&meetingid=1475

5/8

Short Talk Chosen from Abstracts

18:00 On Own for Dinner

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function.

### FRIDAY, JUNE 2

08:00-09:00	Breakfast	<u>Individual Hotel</u>
09:00—12:00	Nutrient Sensing and Signaling in Immune Microenvironment	Hall 3
	Registered attendees can view abstracts starting on 04/29/2017	
	Mark A. Febbraio, Garvan Institute of Medical Research, Australia	
	How Do Macrophages Sense Nutrient Overload to Induce an Inflammatory Response?	
	Susan M. Kaech, Yale University School of Medicine, USA Anti-tumor T Cells - You Are What You Eat	
	Coffee Break	
	Janelle S. Ayres, The Salk Institute for Biological Studies, USA Gut Microbe, Growth Factor Signaling and Metabolic Regulation of Wasting Disease	
	<u>Mala Maini</u> , University College London, UK Metabolic Regulation of T Cell Immunity in Viral Hepatitis	
	Short Talk(s) Chosen from Abstracts	

### Following Session is for Cell Death and Inflammation (K2)

09:00-12:00	Alternative Cell Death Modalities and Inflammation
	Atternative cent beauti modulities and pintamination

Registered attendees can view abstracts starting on 04/29/2017

**Arturo Zychlinsky,** Max Planck Institute for Infection Biology, Germany

Concert Hall

Hall 3

NETosis and Inflammation

**Thomas Brunner**, University of Konstanz, Germany Extra-Adrenal Synthesis of Immunoregulatory Glucocorticoids and its Implication in Local Tissue Homeostasis, Inflammation and Cancer

### Coffee Break

Kim Newton, Genentech, USA

Regulation of Cell Death by RIPK1 and Caspase-8  $\,$ 

<u>Kate Schroder</u>, University of Queensland, Australia Myeloid Cell Identity Shapes Inflammasome Signalling Pathways and Cell Death Decisions

Short Talk(s) Chosen from Abstracts

12:00—17:00	On Own for Lunch
14:30—16:30	Workshop 2: Importance of Metabolic Reprogramming in in vivo Functioning of the Immune System and Immune-Mediated Diseases
	Short Talks Chosen from Abstracts
1/ 20 17 00	

16:30-17:00 Coffee Available Hall 4

Microbiota Metabolism and Immune Cell Functions

17:00-18:45

Registered attendees can view abstracts starting on 04/29/2017

Yasmine Belkaid, NIAID, National Institutes of Health, USA Commensal Dendritic Cell Interactions

David Artis, Cornell University, USA Immune Regulation at Barrier Surfaces

Daniel Mucida, Rockefeller University, USA

Intestinal Epithelial and Intraepithelial T Cell Crosstalk

Mediates a Dynamic Response to Infection

Following Session is for Cell Death and Inflammation (K2)

17:00-18:00 Inflammation and Cancer

Registered attendees can view abstracts starting on 04/29/2017

Concert Hall

Concert Hall

Hall 3

Hall 4

Frances R. Balkwill, Barts Cancer Institute, Queen Mary

University of London, UK

Inflammation in the Tumor Microenvironment

Scott W. Lowe, Memorial Sloan-Kettering Cancer Center, USA Inflammatory Regulators and Cancer Progression

Following Session is for Cell Death and Inflammation (K2)

18:00-18:45 **Closing Keynote Address** 

Registered attendees can view abstracts starting on 04/29/2017

Douglas R. Green, St. Jude Children's Research Hospital, USA Cell Death as a Key Modulator of Inflammation: What Are the

Key Factors?

18:45-19:00 Meeting Wrap-Up: Outcomes and Future Directions

(Organizers)

Registered attendees can view abstracts starting on 04/29/2017

Following Session is for Cell Death and Inflammation (K2)

18:45-19:00 Meeting Wrap-Up: Outcomes and Future Directions

(Organizers)

Registered attendees can view abstracts starting on 04/29/2017

Concert Hall

Social Hour with Lite Bites No registration fees are used to fund alcohol served at this

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20:00-23:00 Entertainment Hall 4

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SATURDAY, JUNE 3

19:00-20:00

Departure

\*Session Chair †Invited, not yet responded.

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