

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Hypoxia: From Basic Mechanisms to Emerging Therapies (E2)

May 28-31, 2023 • INEC Killarney Convention Centre • Killarney, Co. Kerry, Ireland

Scientific Organizers: Sonia Rocha, Edurne Berra and M. Celeste Simon

Supported by the Directors' Fund

Scholarship Deadline: February 14, 2023 / Abstract Deadline: February 28, 2023 / Discounted Registration Deadline: March 28, 2023

### SUNDAY, MAY 28

#### Arrival and Registration

### MONDAY, MAY 29

#### Welcome and Keynote Address

**Navdeep S. Chandel**, Northwestern University, USA  
*Mouse Models of Mitochondria Defects*

#### Mitochondria and Metabolism

**Isha Jain**, University of California, San Francisco, USA  
*Turning the Oxygen and Vitamin Dials*

**Jared Rutter**, University of Utah, USA  
*Energy Sensing and Metabolism*

**Sarah-Maria Fendt**, VIB-KU Leuven, Belgium  
*Metabolism in Cancer*

#### Short Talk(s) Chosen from Abstracts

#### Functional Hypoxia and Immune Cells

**Moira K. Whyte**, University of Edinburgh, Queen's Medical Research Institute, UK  
*Hypoxia and Immunity*

**Marina P. Kreutz**, Universitat Regensburg, Germany  
*Oncometabolism and Immune Cells*

**Jane A. McKeating**, Oxford University, UK  
*Virus and the HIF System*

**M. Celeste Simon**, University of Pennsylvania, USA  
*Oxygen Availability and Tumor Microenvironments*

#### Short Talk Chosen from Abstracts

#### Poster Session 1

### TUESDAY, MAY 30

#### PHD and FIH Enzymes Substrates and Functions

**Qing Zhang**, UT Southwestern Medical Center, USA  
*Novel PHD Functions*

**Angus I. Lamond**, University of Dundee, UK  
*Mass Spectrometry in the Quest for PHD Targets*

**Daniel J. Peet**, University of Adelaide, Australia  
*FIH Hydroxylation Analysis*

#### Short Talk(s) Chosen from Abstracts

#### Human and Model Organisms and Hypoxia

**Joaquín M. Espinosa**, Linda Crnic Institute for Down Syndrome, USA  
*Multimics Approaches to Studying Hypoxic Signaling in Health and Disease*

**Cynthia M. Beall**, Case Western Reserve University, USA  
*Human Genetic Adaptations to Low Oxygen*

**Irena Manov**, University of Haifa, Israel  
*Does Hypoxia-Tolerant Blind Mole Rat *Spalax* Hold the Secrets for Healthier Aging?*

**Ernestina Schipani**, University of Pennsylvania, USA  
*Bone Development and Hypoxia*

#### Short Talk Chosen from Abstracts

#### Poster Session 2

### WEDNESDAY, MAY 31

#### New Aspects of Hypoxia Signalling

**Edurne Berra**, CIC bioGUNE, Spain  
*DUBs in Hypoxia*

**Paul Boutros**, University of California, Los Angeles, USA  
*Mutational Signatures in Hypoxic Tumors*

**Sonia Rocha**, University of Liverpool, UK  
*Oxygen as a Signalling Molecule in Cells*

#### Short Talk(s) Chosen from Abstracts

#### Therapeutic Applications in Hypoxia Response and Disease

**Eric Park†**, Turning Point Therapeutics, USA  
*Hif-2 Inhibitors in Human Cancer*

**Alessio Ciulli**, University of Dundee, School of Life Sciences, UK  
*VHL as Tool and Target for Therapy*

**Volker H. Haase**, Vanderbilt University, USA  
*Pharmacological Targeting of the HIF Pathway*

#### Short Talk Chosen from Abstracts

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

### THURSDAY, JUNE 1

#### Departure