



International Society  
for Cancer Metabolism



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

## ISCaM2021 – 8<sup>th</sup> Annual Meeting – Webinar series

University of Padua, October-December 2021

Scientific committee: Stine Falsig Pedersen, University of Copenhagen, Denmark  
Gyorgy Szabadkai, University College London, UK; University of Padua, Italy  
Fatima Baltazar, University of Minho, Portugal  
Paolo Porporato, University of Torino, Italy  
Pawel Swietach, University of Oxford, UK  
Elena Rainero, University of Sheffield, UK  
Margherita Cortini, IRCCS Istituto Ortopedico Rizzoli, Bologna, Italy  
Alessandro Carrer, Veneto Institute for Molecular Medicine (VIMM), Padua, Italy

Zoom (same for all sessions):

<https://unipd.zoom.us/j/86459030293>

Webinar ID: 864 5903 0293

### Session 1:

Novel tools and approaches in metabolism and tumour microenvironment (Chairs: GS, PS)  
5 October, 2021, 4pm (UK time)

#### Keynote 1:

Josephine Bunch

title: TBC

National Physical Laboratory, Teddington, UK

#### Industrial talks:

Jake Boy

Optical Sensing in Cell Culture

aquila biolabs GmbH, Baesweiler, Germany

Robert Meier

Oxygen and pH measurements in the (micro-)environment of tumors

PreSens Precision Sensing R&D Division, Regensburg, Germany

#### ERC talk:

Caroline Bartman

Measuring metabolic fluxes in vivo suggests low ATP production in tumors

Lewis Sigler Institute for Integrative Genomics and Department of Chemistry, Princeton University, Princeton, NJ, USA

### Session 2:

The Tumour Microenvironment (Chairs: ER, SFP)  
19 October, 2021, 4pm (UK time)

Nada Kalaany

Distinct metabolic dependencies in pancreatic cancer

Department of Pediatrics, Harvard Medical School, Broad Institute of MIT and Harvard, Division of Endocrinology, Boston Children's Hospital, MA, USA

Celeste Simon

title: TBC

Abramson Family Cancer Research Institute, Department of Cancer Biology, Department of Cell and Developmental Biology, Perelman School of Medicine, University of Pennsylvania, PA, USA

Costas Lyssiotis

Metabolic Networks in the Tumor Microenvironment

Department of Molecular and Integrative Physiology; University of Michigan, Ann Arbor, Michigan, USA

1 speaker TBA

**Session 3:**  
**Cancer immunometabolism (Chairs: MC, AC)**  
**2 November, 2021, 4pm (UK time)**

- Navdeep Chandel**                      **Mitochondria regulation of NLRP3 inflammasome**  
*Northwestern University, Feinberg School of Medicine, Chicago, Illinois, USA*
- Luke O'Neill**                        **Itaconate: a Krebs Cycle -derived metabolite in inflammation, immunothrombosis and cancer**  
*School of Biochemistry and Immunology, Trinity College Dublin, Trinity Biomedical Sciences Institute, Dublin, Ireland.*
- David Finlay**                        **Nutrients and metabolites controlling Natural Killer cell responses**  
*School of Biochemistry and Immunology and School of Pharmacy and Pharmaceutical Sciences, Trinity Biomedical Sciences Institute, Trinity College Dublin, Ireland.*
- Filippo Veglia**                      **Metabolic regulation of myeloid cell functions in cancer**  
*H. Lee Moffitt Cancer Center, Tampa, FL, USA*

**Session 4:**  
**Targeting metabolism in cancer (Chairs: PP, FB)**  
**16 November, 2021, 4pm (UK time)**

- Andrea Morandi**                    **title: TBC**  
*University of Florence, Italy*
- Olivier Feron**                       **title: TBC**  
*Université Catholique de Louvain, Belgium*
- Naama Kanarek**                    **Metabolomics of cerebrospinal fluid provide new perspective on cancer treatment in the brain**  
*Harvard Medical School, Boston, USA*
- Andrea Viale**                       **Dissection of Tumor Heterogeneity Uncovers Metabolic Vulnerabilities in Pancreatic Cancer**  
*MD Anderson Cancer Center, Houston, USA*

**Session 5:**  
**Metabolic crosstalk between tumours and organs (Chairs: PP, GS)**  
**30 November, 2021, 4pm (UK time)**

- Kathryn E. Wellen**                **title: TBC**  
*Department of Cancer Biology and Abramson Family Cancer Research Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA.*
- Thomas O'Connell**               **title: TBC**  
*Indiana University School of Medicine, Indianapolis, IN, USA*

**2 speakers TBA**

**Session 6:**  
**Metabolic adaptations through cancer progression (Chairs: ER, FB)**  
**14 December, 2021, 4pm (UK time)**

- Christian Frezza**                    **The metabolic landscape of renal cancer progression**  
*Medical Research Council Cancer Unit, University of Cambridge, Cambridge, UK.*
- Rushika Perera**                    **Unraveling metabolic adaptations to KRAS-MAPK pathway suppression in pancreatic cancer**  
*Department of Anatomy and Helen Diller Family Comprehensive Cancer Center, University of California, San Francisco, USA.*
- Cynthia Reinhart-King**           **The Intersection of Migration, Mechanics and Metabolism in Metastasis**  
*Department of Biomedical Engineering, Vanderbilt University, Nashville, TN, USA.*
- Keynote: Marcia Haigis**           **Lessons learned from metabolism: from systems to molecules**  
*Department of Cell Biology, Blavatnik Institute, Harvard Medical School, Boston, Massachusetts.*