



**ISCaM 2019**  
**6<sup>th</sup> Annual Meeting**  
**17-19 October**  
**Braga, Portugal**

**CANCER  
METABOLIC  
REWIRING:  
MAPPING  
THE ROAD  
TO CLINICAL  
TRANSLATION**

international society  
of cancer metabolism

[www.iscams.org](http://www.iscams.org)

## SESSION TOPICS

- Cancer pH Dynamics
- Genetic and Epigenetic Regulation of Cancer Metabolism
- Metabolism and Cancer Heterogeneity
- Metabolism and Cancer Progression
- Metabolism and Regulated Cell Death
- Diet, Microbiota and Cancer Metabolism
- Cancer Metabolism and Immune Response
- Target Metabolism in Cancer Therapy

## Keynote Speakers

**Jacques Pouysségur**  
Centre Scientifique de Monaco, MC

**Diane Barber**  
University of S. Francisco, USA

## Invited Speakers

**Ana Gil**  
University of Aveiro, PT

**Javier A Menendez**  
Catalan Institute of Oncology, ES

**Christian Frezza**  
University of Cambridge, UK

**Marja Jäätelä**  
University of Copenhagen, DK

**Aung Naing**  
University of Texas, USA

**Marina Kreutz**  
University Hospital Regensburg, DE

**Ciro Isidoro**  
University of Piemonte Orientale, IT

**Massimiliano Mazzone**  
VIB - KU Leuven, BE

**Cristina Muñoz-Pinedo**  
Bellvitge Biomedical Research Institute  
L'Hospitalet, ES

**Pawel Swietach**  
University of Oxford, UK

**Fatima Mechta-Grigoriou**  
INSERM, FR

**Sarah Halford**  
Cancer Research, UK

**Fátima Martel**  
University of Porto, PT

**Valerio Paziienza**  
IRCCS - Hospital San Giovanni Rotondo, IT

**Jacinta Serpa**  
New University of Lisbon, PT

**Tea Pemovska**  
CeMM - Research Center for Molecular Medicine  
of the Austrian Academy of Sciences, AT

## WELCOME MESSAGE

Dear friends and colleagues,

On behalf of the organizing committee, it is our pleasure to welcome you in Braga, Portugal, for the “6th Annual ISCaM Meeting 2019”. In this meeting, we have set a comprehensive scientific program that tackles the many faces of cancer metabolism, highlighting the recent advances in the field and the road ahead for clinical translation.

The meeting venue is at Bom Jesus do Monte Sanctuary complex, one of the most iconic places of Portugal, that this year was recognized a UNESCO World Heritage cultural site.

The social events include a welcome cocktail with the sound of Minho folk music, a visit to Porto where we will have a guided tour to a wine cellar, followed by Port wine tasting and dinner at the sea side.

We hope that this meeting will offer the opportunity to exchange ideas in a friendly and stimulating environment, promoting fruitful collaborations. We wish you a very pleasant stay in our beautiful country and expect this to be an inspirational and memorable ISCaM meeting!

Your local hosts,



Ana Preto



Fátima Baltazar



THURSDAY, 17<sup>TH</sup> OCTOBER

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08:30 » 10:00 Registration

10:00 » 11:00 **Welcome**  
**Fátima Baltazar** ICVS - University of Minho; **Ana Preto** CBMA - University of Minho; **Vítor Veloso** President of LPCC - Núcleo Regional do Norte; **Carla Martins** Pro-Rector, University of Minho; **Ricardo Rio** Braga City Mayor

11:00 » 12:00 **Opening lecture** *LPCC-NRN sponsored lecture*  
**Diane Barber** University of S. Francisco, USA  
**Intracellular pH Regulation of Protein Dynamics: From Cancer to Stem Cell Behaviors**

12:00 » 14:00 **Lunch, poster viewing** *Sala Colunata*  
& **Meet the Professor Diane Barber** 13:30 » *Sala Templo, Hotel do Templo*

14:00 » 15:30 **Session 1: Cancer pH Dynamics**  
*Chairs:* **Pierre Sonveaux** Université Catholique de Louvain, UCLouvain, BE;  
**Sofia Avnet** University of Bologna, IT

*Invited lectures*

14:00 » 14:30 **Pawel Swietach** University of Oxford, UK  
**Exploring acid handling and sensing mechanisms in a large panel of colorectal cancer cells**

14:30 » 15:00 **Marja Jäättelä** University of Copenhagen, DK  
**Lysosomal control of cytosolic pH**

*Selected communications*

15:00 » 15:15 **Surviving metabolism: acidity as a selection pressure in colorectal cancer cell lines**  
**Johanna Michl** University of Oxford, UK

15:15 » 15:30 **Acid adaption of cancer cells rewires pH homeostasis, lipid metabolism and lysosomal biogenesis**  
**Stine Falsig Pedersen** University of Copenhagen, DK

15:30 » 17:00 **Session 2: Genetic and Epigenetic Regulation of Cancer Metabolism**  
*Chairs:* **Carmen Jerónimo** IPO-Porto, PT; **Joana Paredes** I3S, PT

*Invited lectures*

15:30 » 16:00 **Christian Frezza** University of Cambridge, UK *LPCC-NRN sponsored lecture*  
**Mitochondrial metabolites and cancer**

16:00 » 16:30

**Javier A Menendez** Catalan Institute of Oncology, ES  
**Metformin: a metabolo-epigenetic drug for cancer therapy**

*Selected communications*

16:30 » 16:45

**Acetyl-CoA metabolism supports multi-step pancreatic carcinogenesis**  
**Alessandro Carrer** Venetian Institute of Molecular Medicine, IT

16:45 » 17:00

**Regulation of energy metabolism by formate**  
**Alexei Vazquez** Beatson Institute, UK

17:00 » 17:30 **Coffee Break**

17:30 » 19:00 **Session 3: Metabolism and Cancer Heterogeneity**  
*Chairs:* **Stine Falsig Pedersen** University of Copenhagen, DK;  
**Paulo Oliveira** University of Coimbra, PT

*Invited lectures*

17:30 » 18:00

**Fatima Mechta-Grigoriou** INSERM, FR  
**Role of oxidative stress and stromal heterogeneity in cancer**

18:00 » 18:30

**Jacinta Serpa** New University of Lisbon, PT  
**Cancer cells metabolic heterogeneity underlies chemoresistance**

*Selected communications*

18:30 » 18:45

**PI3K-C2Y Loss Promotes Pancreatic Cancer through mTOR Regulation and Metabolic Rewiring**  
**Maria Chiara De Santis** University of Torino, Molecular Biotechnology Center, IT

18:45 » 19:00

**Metabolic intratumoural heterogeneity in cancer**  
**Maria Colman** UMC Utrecht, NL

19:00 » 21:00 **Welcome Reception with Minho folk music**

20:30 **ISCaM Board meeting** *Sala Templo, Hotel do Templo*

FRIDAY, 18<sup>TH</sup> OCTOBER

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08:00 » 09:30	<b>Session 4: Metabolism and Cancer Progression</b> <i>Chairs:</i> Bruno Costa ICVS, PT; Lucie Brisson INSERM, University of Tours, FR
	<b>Invited lectures</b>
08:00 » 08:30	<b>Ana Gil</b> University of Aveiro, PT Metabolomics and the unveiling of new metabolic players in cancer
08:30 » 09:00	<b>Ciro Isidoro</b> University of Piemonte Orientale, IT Glucose metabolism and autophagy in cancer progression
	<b>Selected communications</b>
09:00 » 09:15	Characterization of the metabolic control of brain metastasis in breast cancer <b>Marine CNM Blackman</b> UCLouvain, BE
09:15 » 09:30	Loss of ISG15 expression and ISGylation Reduces Mitophagy and the Functionality and Metabolic Plasticity of Pancreatic Cancer Stem Cells <b>Bruno Sainz</b> Instituto de Investigaciones Biomédicas, ES
09:30 » 10:00	<b>Coffee Break</b>
10:00 » 11:30	<b>Session 5: Metabolism and Regulated Cell Death</b> <i>Chairs:</i> Paula Ludovico ICVS, PT; Valdemar Máximo I3S, PT
	<b>Invited lectures</b>
10:00 » 10:30	<b>Cristina Muñoz-Pinedo</b> Bellvitge Biomedical Research Institute L'Hospitalet, ES A chemotactic and pro-inflammatory signature induced by starvation and anti-metabolic therapy
10:30 » 11:00	<b>Tea Pemovska</b> CeMM - Research Center for Molecular Medicine of the Austrian Academy of Sciences, AT Identification and targeting of metabolic vulnerabilities in myeloid leukemias
	<b>Selected communications</b>
11:00 » 11:15	P53 sustains oxidative metabolism and delays the energetic collapse caused by targeting respiratory complex I in combination with low glucose <b>Giuseppe Gasparre</b> University of Bologna, IT
11:15 » 11:30	Role of autophagy in the interactions between adipocytes and breast cancer cells <b>Lucie Brisson</b> INSERM, University of Tours, FR
11:30 » 12:00	<b>Meet the Professor Jacques Pouysségur</b> <i>Sala Templo, Hotel do Templo</i> & poster viewing <i>Sala Colunata</i>

12:00 » 13:30	<b>Lunch &amp; poster viewing</b> <i>Sala Colunata</i>
13:30 » 14:30	<b>ISCaM General assembly</b>
14:30 » 16:00	<b>Session 6: Diet, Microbiota and Cancer Metabolism</b> <i>Chairs:</i> Margarida Casal CBMA, PT; Egidio Torrado ICVS, PT
	<b>Invited lectures</b>
14:30 » 15:00	<b>Valerio Paziienza</b> IRCCS - Hospital San Giovanni Rotondo, IT Pharmacomicrobiomics: exploiting the diet-drug-microbiota interactions in anticancer therapies
15:00 » 15:30	<b>Fátima Martel</b> University of Porto, PT Effect of dietary polyphenols on nutrient uptake: a new potential therapeutic target for cancer
	<b>Selected communications</b>
15:30 » 15:45	Obesity and Triple Negative Breast Cancer: is apelin a new key target? <b>Florian Gourgue</b> UCLouvain, BE
15:45 » 16:00	Polyunsaturated fatty acids reduce in vitro tumor growth of colorectal cancer patient-derived organoids <b>Marianela Vara-Messler</b> University of Turin, IT
16:00 » 16:30	<b>The interaction between the vaginal microbiome, HPV infection and cervical cancer</b> <b>Pedro Vieira Baptista</b> ISSVD, Unilabs; <i>Sponsor lecture UNILABS</i> <b>Carlos Sousa</b> LAP-Unilabs
16:30 » 17:00	<b>Coffee Break</b>
16:45	<b>Departure to Porto</b>
18:30	<b>Visit to Taylor's Porto wine Cellars</b>
20:30	<b>Conference Dinner</b> <i>Praia da Luz, Foz - Porto</i>

SATURDAY, 19<sup>TH</sup> OCTOBER

SATURDAY, 19<sup>TH</sup> OCTOBER

09:00 » 10:30

**Session 7: Targeting Metabolism in Cancer Therapy**

Chairs: **Lúcio Santos** IPO-Porto, PT; **Nicola Baldini** University of Bologna, IT

*Invited lectures*

09:00 » 09:30

**Aung Naing** University of Texas, USA *ASPIC sponsored lecture*  
Targeting metabolism and immune response from tissue to liquid biopsy

09:30 » 10:00

**Sarah Halford** Cancer Research, UK *ASPIC sponsored lecture*  
Remove The Road Blocks: A multi-disciplinary approach for the development of the first-in-human, first-in-class monocarboxylate transporter 1 (MCT1) inhibitor, AZD3965, targeting patients with advanced solid tumours and DLBCL

*Selected communications*

10:00 » 10:15

Epigenetic-metabolic interplay in renal cell carcinoma: role of lactate on sirtuin's modulation  
**Vera Miranda-Gonçalves** IPO-Porto, PT

10:15 » 10:30

Genetic disruption of the cystine importer xct (SLC7A11) reduces growth, survival and tumorigenicity and increases sensitivity to chemotherapy of PDAC cells (CAPAN-2 and MIAPACA-2)  
**Daher Boutaina** Scientific Centre of Monaco, MC

10:30 » 11:00

**Coffee Break**

11:00 » 12:30

**Session 8: Cancer Metabolism and Immune Response**

Chairs: **Ricardo Silvestre** ICVS, PT; **Maria Oliveira** I3S, PT

*Invited lectures*

11:00 » 11:30

**Marina Kreutz** University Hospital Regensburg, DE  
Metabolic checkpoints in the tumor environment

11:30 » 12:00

**Massimiliano Mazzone** VIB - KU Leuven, BE *LPCC-NRN sponsored lecture*  
Harnessing tumor metabolism to overcome immunosuppression

*Selected communications*

12:00 » 12:15

Inhibition of glutamine synthetase by glufosinate ammonium skews macrophages towards a M1-like phenotype and inhibits tumor metastasis  
**Alessandra Castegna** University of Bari, IT

12:15 » 12:30

New target molecules depict T regulatory cells in Malignant Mesothelioma  
**Stefania Oliveto** National Institute of Molecular Genetics, IT

12:30 » 13:00

**Importance of nutrition in the oncologic patient: Nestlé Health Science nutritional solutions**

**Marta Vasconcelos** Nestlé Health Science, PT *Sponsor lecture Nestlé*

13:00 » 15:00

**Lunch, poster viewing Sala Colunata and Meet the Editor Maria Baratta (Editor of Cell Reports) Sala Templo, Hotel do Templo**

15:00 » 16:00

**Closing lecture** *EACR sponsored lecture*  
**Jacques Pouysségur** Scientific Centre of Monaco, MC  
Targeting acidic, nutritional and oxidative stresses in cancer

16:00 » 16:30

**Best poster and oral communication award ceremony and closing session**

**Fátima Baltazar** ICVS, PT; **Ana Preto** CBMA, PT; **Joana Paredes** Vice-President of ASPIC; **Silvia Pastoreková** President of ISCaM



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