



ISCaM 2019
6th Annual Meeting
17-19 October
Braga, Portugal

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



International society
of cancer metabolism

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



Universidade do Minho
Escola de Ciências



Universidade do Minho
Escola de Medicina



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*

08:00 » 09:30

Session 4: Metabolism and Cancer ProgressionChairs: Bruno Costa ICVS, PT; Lucie Brisson INSERM, University of Tours, FR**Invited lectures**

08:00 » 08:30

Ana Gil University of Aveiro, PT
Metabolomics and the unveiling of new metabolic players in cancer

08:30 » 09:00

Ciro Isidoro University of Piemonte Orientale, IT
Glucose metabolism and autophagy in cancer progression**Selected communications**

09:00 » 09:15

Characterization of the metabolic control of brain metastasis in breast cancer
Marine CNM Blackman 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
Bruno Sainz Instituto de Investigaciones Biomédicas, ES09:30 » 10:00 **Coffee Break**

10:00 » 11:30

Session 5: Metabolism and Regulated Cell DeathChairs: Paula Ludovico ICVS, PT; Valdemar Máximo I3S, PT**Invited lectures**

10:00 » 10:30

Cristina Muñoz-Pinedo Bellvitge Biomedical Research Institute L'Hospitalet, ES
A chemotactic and pro-inflammatory signature induced by starvation and anti-metabolic therapy

10:30 » 11:00

Tea Pemovska CeMM - Research Center for Molecular Medicine of the Austrian Academy of Sciences, AT
Identification and targeting of metabolic vulnerabilities in myeloid leukemias**Selected communications**

11:00 » 11:15

P53 sustains oxidative metabolism and delays the energetic collapse caused by targeting respiratory complex I in combination with low glucose
Giuseppe Gasparre University of Bologna, IT

11:15 » 11:30

Role of autophagy in the interactions between adipocytes and breast cancer cells
Lucie Brisson INSERM, University of Tours, FR

11:30 » 12:00

Meet the Professor Jacques Pouysségur *Sala Templo, Hotel do Templo*
& poster viewing *Sala Colunata*

12:00 » 13:30

Lunch & poster viewing *Sala Colunata*

13:30 » 14:30

ISCaM General assembly

14:30 » 16:00

Session 6: Diet, Microbiota and Cancer MetabolismChairs: Margarida Casal CBMA, PT; Egídio Torrado ICVS, PT**Invited lectures**

14:30 » 15:00

Valerio Paziienza IRCCS - Hospital San Giovanni Rotondo, IT
Pharmacomicrobiomics: exploiting the diet-drug-microbiota interactions in anticancer therapies

15:00 » 15:30

Fátima Martel University of Porto, PT
Effect of dietary polyphenols on nutrient uptake: a new potential therapeutic target for cancer**Selected communications**

15:30 » 15:45

Obesity and Triple Negative Breast Cancer: is apelin a new key target?
Florian Gourgue UCLouvain, BE

15:45 » 16:00

Polyunsaturated fatty acids reduce in vitro tumor growth of colorectal cancer patient-derived organoids
Marianela Vara-Messler University of Turin, IT

16:00 » 16:30

The interaction between the vaginal microbiome, HPV infection and cervical cancer**Pedro Vieira Baptista** ISSVD, Unilabs;
Carlos Sousa LAP-Unilabs*Sponsor lecture UNILABS*

16:30 » 17:00

Coffee Break

16:45

Departure to Porto

18:30

Visit to Taylor's Porto wine Cellars

20:30

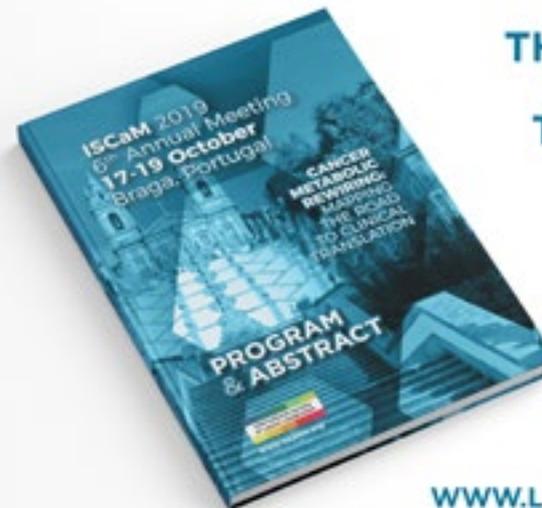
Conference Dinner *Praia da Luz, Foz - Porto*

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 <i>ASPIC sponsored lecture</i> Targeting metabolism and immune response from tissue to liquid biopsy
09:30 » 10:00	Sarah Halford Cancer Research, UK <i>ASPIC sponsored lecture</i> 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 <i>LPCC-NRN sponsored lecture</i> 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 <i>Sponsor lecture Nestlé</i>
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 <i>EACR sponsored lecture</i> 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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