Mechanisms to Therapies: Innovations in Cancer Metabolism Programme

Bilbao, Spain

9 - 11 October 2018



Scientific Programme

Tuesday 9th October 2018

10:30 REGISTRATION

Until 11:30

Coffee available

11:30 CONFERENCE WELCOME

Scientific Programme Committee

11:45 ASEICA KEYNOTE LECTURE

Chair: Navdeep Chandel

William Kaelin, Jr.

Howard Hughes Medical Institute and Dana-Farber Cancer Institute, USA "The VHL Tumor Suppressor: Insights into Oxygen Sensing, Cancer Metabolism, and Drugging the Undruggable"

12:30 SESSION 1 - ONCOGENIC METABOLIC SIGNALLING

Chair: Ayelet Erez

12:30 **Brendan Manning**

Harvard T.H. Chan School of Public Health, USA

"The PI3K-mTOR Signaling Network and the Anabolic Control of Cell Growth"

13:00 LUNCH & MEET THE EXPERT

14:30 Alejo Efeyan

CNIO, Spain

"Oncogenic nutrient signalling in B cell lymphoma"

15:00 Reuben Shaw

The Salk Institute, USA

"AMPK: good signals during bad times"

15:30 Heather Christofk

UCLA Jonsson Comprehensive Cancer Center, USA

"Metabolic Transitions in Cancer: Lessons from Viral Infection"

16:00 Mattia Falcone

DKFZ, Germany

Proffered Paper 1: "BCAT1 restricts IKG levels in AML stem cells leading to IDHmut-like DNA hypermethylation"

16:15 COFFEE BREAK

16:45 SESSION 2 - METABOLIC WIRING IN CANCER

Chair: Salvador Aznar-Benitah

16:45 Sarah-Maria Fendt

VIB-KU Leuven Center for Cancer Biology, Belgium

"Nutrient metabolism in cancer progression"

17:15 Ayelet Erez

Weizmann Institute of Science, Israel

"The contribution of urea cycle enzymes and intermediates to carcinogenesis"

17:45 Matt Vander Heiden

Massachusetts Institute of Technology, USA

"How metabolisum supports tumour progression"

18:15 **Javier Garcia Bermudez**

The Rockefeller University, USA

Proffered Paper 2: "Exploiting Cholesterol Auxotrophy of Lymphomas as an Anti-Cancer Therapy"

Wednesday 10th October 2018

09:30 SESSION 3 - METABOLIC CONTROL OF THE EPIGENOME

Chair: Sarah-Maria Fendt

09:30 Raul Mostoslavsky

MGH Cancer Center, Harvard Medical School, USA

"Linking metabolism, chromatin and cancer: SIRT6 provides new clues"

10:00 Jason Locasale

Duke University School of Medicine, USA

"Glucose and amino acid metabolism in cancer"

10:30 Andrew Intlekofer

MSKCC, USA

Proffered Paper 3: "Mechanisms of acquired resistance to mutant isocitrate dehydrogenase inhibitors"

10:45 EXHIBITOR INTRODUCTIONS

A fun session to introduce the companies who are exhibiting at the conference

10:50 COFFEE BREAK

Trade exhibition opens

11:20 Oliver Maddocks

University of Glasgow, UK

"(Non)Essential Amino Acid Metabolism In Cancer"

11:50 Navdeep Chandel

Northwestern University, USA

"Mitochondria as signaling organelles"

12:20 POSTER SPOTLIGHTS

Six top-scoring abstracts will be presented in short 'flash talks' of 3 minutes each.

12:50 LUNCH & POSTER DEFENCE SESSION 1

Odd numbered posters (1, 3, 5, etc.) will be presented

14:50 SESSION 4 - METABOLIC HETEROGENEITY & TUMOUR PROGRESSION

Chair: Matt Vander Heiden

14:50 Salvador Aznar-Benitah

ICREA, IRB Barcelona, Spain

"Epigenetic influence of our (fatty) diet on metastatic-initiating cells"

15:20 Arkaitz Carracedo

CIC bioGUNE, Spain

"Metabolic plasticity in the ever-changing tumor environment"

15:50 Cristina Muñoz-Pinedo

IDIBELL, Spain

Proffered Paper 4: "Starvation leads to inflammatory cytokine and chemokine release"

16:05 COFFEE BREAK

16:35 Carla Martins

University of Cambridge, UK

"Metabolic dependencies of mutant Kras lung tumors"

17:05 Thales Papagiannakopoulos

NYU School of Medicine. USA

"Uncovering metabolic bottlenecks in lung cancer"

17:35 MEET THE EDITOR

Javier Carmona

Senior Editor at Nature Medicine, Nature

This is an informal session for PhD students and post-docs who want to learn more about a career as an editor. Spaces are limited, and sign up will open after the registration deadline.

20:30 OPTIONAL CONFERENCE DINNER

Kafe Antzokia

Thursday 11th October 2018

09:00 Peter Carmeliet

VIB-KU Leuven Center for Cancer Biology, Belgium

"Angiogenesis revisited: Role and (therapeutic) implications of endothelial metabolism"

09:00 SESSION 5 - TARGETING STROMA METABOLISM

Chair: Heather Christofk

09:30 Susan Kaech

The Salk Institute, USA

"Anti-Tumor T Cells – you are what you eat"

10:00 Kathrin Renner

University Hospital Regensburg, Germany

"Targeting glycolysis via inhibition of MCT1 and MCT4 preserves T cell effector functions and augments checkpoint therapy"

10:30 Patricia Sancho

IIS, Spain

Proffered Paper 5: "Metabolic switch controlled by MYC/PGC1A is a prerequisite for epithelial-to-mesenchymal transition and metastasis in pancreatic cancer"

10:45 COFFEE BREAK

11:15 SESSION 6 - BENCH TO BEDSIDE/ TARGETING METABOLIC LIABILITIES

Chair: Brendan Manning

11:15 Judith Favier

INSERM, France

"Epigenetic and metabolic reprogramming in SDH-deficient cancers"

11:45 Alec Kimmelman

Perlmutter Cancer Center, USA

"Identifying Metabolic Dependencies in Pancreatic Cancer"

12:15 Ivana Kurelac

University of Bologna, Italy

Proffered Paper 6: "Inducing indolence in aggressive cancers by targeting mitochondrial complex I is counteracted by macrophage-mediated adaptive responses"

12:30 LUNCH & POSTER DEFENCE SESSION 2

Even numbered posters (2, 4, 6, etc.) will be presented

14:30 Scott Biller

Agios, USA

"Cancer Metabolism from Bench to the Clinic"

15:00 EMBO KEYNOTE LECTURE

Chair: Ralph DeBerardinis

Karen Vousden

The Francis Crick Institute, UK

"p53 and metabolism: cancer and beyond"

15:45 CLOSING CEREMONY & PRESENTATION OF AWARD CERTIFICATES

Until 16:00

Scientific Programme Committee