



INSTITUTE
FOR RESEARCH
IN BIOMEDICINE

Barcelona BioMed Conference Cancer Metabolism November 8-10, 2010

Programme

Monday, November 8, 2010

8.30 Registration

9.00 Welcome by Joan J Guinovart, IRB Barcelona Director

Session I:

Chair: Joan Guinovart, IRB Barcelona (Barcelona, Spain)

9.15 - 10.00 **Salvador Moncada** Wolfson Institute for Biomedical Research (London, UK)

The harnessing of glycolysis and glutaminolysis for cell proliferation

10.00 - 10.45 **Lewis C. Cantley** Harvard Medical School (Boston, USA)

PI 3-Kinase and cancer metabolism

10.45 - 11.15 Coffee break and poster session

11.15 - 12.00 **Barbara B. Kahn** Beth Israel Deaconess Medical Center (Boston, USA)

A novel mechanism for regulation of AMPK activity by nutrients and leptin

12.00 - 12.45 **Jacques Pouyssegur** Institute of Developmental Biology and Cancer (Nice, France)

Tumor hypoxia and metabolic acidosis - Targeting pHi control

12.45 - 13.05 **Susumu Hirabayashi** Mount Sinai Medical Center (New York, USA)

Diet-mediated enhancement of tumorigenesis in Drosophila

13.05 - 15.00 Lunch (FrescCo, C/ Carme, 16)

Session II:

Chair: David Sabatini, Whitehead Institute for Biomedical Research (Cambridge, USA)

15.00 - 15.45 **Almut Schulze** (EMBO Young Investigator Lecture) Cancer Research UK (London, UK)

Regulation of cell metabolism by PI3-kinase/Akt signalling and its role in cell growth and transformation

15.45 - 16.30 **Anne Brunet** Stanford University School of Medicine (Stanford, USA)
Mechanisms of lifespan extension by dietary restriction

16.30 - 17.00 Coffee break and poster session

17.00 - 17.45 **M. Celeste Simon** University of Pennsylvania (Philadelphia, USA)
Hypoxia, metabolism, and tumor progression

17.45 - 18.05 **Joan Seoane** Vall d'Hebron Institute of Oncology (Barcelona, USA)
FoxG1 is a functional repressor of FoxO in glioblastoma and affects the anti-tumoral activity of PI3K-inhibitors

18.05 - 19.00 Poster session

Tuesday, November 9, 2010

Session III:

Chair: Barbara B. Kahn, Beth Israel Deaconess Medical Center (Boston, USA)

9.00 - 9.45 **Kun-Liang Guan** University of California (San Diego, USA)
Protein acetylation in regulation cellular metabolism

9.45 - 10.30 **David M. Sabatini** Whitehead Institute for Biomedical Research (Cambridge, USA)
Cancer metabolism and mTOR pathway regulation

10.30 - 11.00 Coffee break and poster session

11.00 - 11.45 **Reuben J. Shaw** The Salk Institute (La Jolla, USA)
The LKB1/ AMPK pathway coordinates cell growth and metabolism

11.45 - 12.30 **Brendan D. Manning** Harvard School of Public Health (Boston, USA)
The control of cellular metabolism downstream of mTOR complex 1

12.30 - 12.50 **Dos Sarrasov** University of Texas M. D. Anderson Cancer Center (Houston, USA)
The Glycogen Synthase Kinase 3 β controls the mTORC2 signaling

12.50 - 13.10 **Carles Cantó** École Polytechnique Fédérale de Lausanne (Lausanne, Switzerland)
Resveratrol, cancer and energy metabolism - AMPK as a key player?

13.10 - 15.00 Lunch (Fresco, C/ Carme, 16)

Session IV:

Chair: Lewis Cantley, Harvard Medical School (Boston, USA)

15.00 - 15.45 **Karen Vousden** Beatson Institute for Cancer Research (Glasgow, UK)
Control of Metabolism by p53

15.45 - 16.30 **Kwok-Kin Wong** Dana-Farber Cancer Institute (Boston, USA)
Novel targets for Lkb1-deficient metastatic lung tumors

16.30 - 17.00 Coffee break and poster session

17.00 - 17.45 **Mario Pende** Université Paris Descartes (Paris, France)
Akt and S6 kinases in mammalian growth and tumorigenesis

17.45 - 18.05 **Juan Bolaños** Universidad de Salamanca (Salamanca, Spain)
APC/C-Cdh1 and metabolism: from post-mitotic neurons to dividing cells

18.05 - 19.00 Poster session

Wednesday, November 10, 2010

Session V:

Chair: Salvador Moncada, Wolfson Institute for Biomedical Research (London, UK)

9.00 - 9.45 **Dario Alessi** University of Dundee (Dundee, UK)
The structure and function of LKB1

9.45 - 10.30 **Pan Zheng** University of Michigan Health Systems (Ann Arbor, USA)
mTOR activation underlies hematopoietic stem cell defects in autoimmune diseases, inflammation and aging

10.30 - 11.00 Coffee break and poster session

11.00 - 11.45 **Valeria R. Fantin** Agios Pharmaceuticals (Cambridge, USA)
IDH mutations in cancer

11.45 - 12.05 **Bernard Mari** CNRS, Institut de Pharmacologie Moléculaire et Cellulaire (Sophia-Antipolis, France)
miR-210 is overexpressed in late stages of lung cancer and mediates mitochondrial alterations associated with modulation of HIF-1 activity

12.05 - 12.50 **Grahame Hardie** University of Dundee (Dundee, UK)
AMPK - a drug target to modify cancer cell metabolism?

12.50 **Joan Guinovart** IRB Barcelona (Barcelona, Spain)
Concluding remarks