



## CANCER & METABOLISM: PATHWAYS TO THE FUTURE CONFERENCE

September 19-21, 2010

Edinburgh, Scotland

Organisers: Eyal Gottlieb, Karen Vousden and Abcam

### PROGRAMME

#### September 19, 2010

15.00 – 16.00	<b>Registration</b>
16.00 – 16.30	<b>Welcome</b>
16.30 – 17.30	<b>Lewis Cantley (Beth Israel Deaconess Medical Center, US)</b> <i>PI 3-Kinase and Cancer Metabolism</i>
18.00 – 19.00	<b>Welcome Drinks Reception</b> <i>City Chambers Edinburgh</i>

#### September 20, 2010 Chaired by Christian Frezza (The Beatson Institute for Cancer Research, UK)

09.00 – 09.30	<b>Almut Schulze (London Research Institute, UK)</b> <i>Regulation of cell metabolism by PI3-kinase/Akt signalling and its role in cell growth and transformation</i>
09.30 – 10.00	<b>Reuben Shaw (The Salk Institute for Biological Studies, US)</b> <i>The AMPK pathway coordinates cell growth and metabolism</i>
10.00 – 10.15	<b>Rachel Airley (University of Huddersfield, UK)</b> <i>ChREBP: a Missing Link Between Glucose and Lipid metabolism and a Potential New Biomarker in Cancer</i>
10.15 – 10.30	<b>Chris Bunce (University of Birmingham, UK)</b> <i>Proton NMR-based metabolic signatures of response to treatment in urine and serum of myeloma patients</i>
10.30 – 11.00	<b>Coffee and poster viewing</b>
11.00 – 11.30	<b>Doug Green (St. Jude Children's Hospital, US)</b> <i>The mitochondrial pathway of apoptosis</i>
11.30 – 12.00	<b>Eileen White (Rutgers University, US)</b> <i>Role of autophagy in cancer and therapy</i>
12.00 – 12.15	<b>Kelvin Cain (Medical Research Council, UK)</b> <i>Metabolic reprogramming modulates tumour cell sensitivity to both intrinsic and death receptor-induced apoptotic cell death</i>
12.15 – 12.30	<b>Stefano Indraccolo (Istituto Oncologico Veneto – IRCCS, Italy)</b> <i>The glycolytic phenotype of cancer cells: implications for response to anti-VEGF therapy</i>
12.30 – 14.00	<b>Lunch and poster viewing</b>

14.00 – 14.10	<b>Abcam Talk</b>
14.10 – 14.40	<b>Nika Danial (Dana-Farber Institute, US)</b> <i>Energy metabolism in genetically defined subsets of diffuse large B cell lymphoma (DLBCL)</i>
14.40 - 15.10	<b>Ralph DeBerardinis (University of Texas, US)</b> <i>Mitochondrial metabolism in tumorigenesis: forgotten, but not gone</i>
15.10 – 15.25	<b>Grace O'Maille (Metabolon, Inc, US)</b> <i>Global Metabolism Studies: Non-Targeted Metabolomic Analysis Platform and Its Application in Cancer Research</i>
15.25 – 15.55	<b>Tea and poster viewing</b>
15.55 – 16.10	<b>Jane Yu (Brigham and Women's Hospital/ Harvard Medical School, US)</b> <i>Evidence from expression profiling, proteomics, metabolomics and FDG-PET of an estrogen-dependent metabolic switch in tuberin-null cells</i>
16.10 – 16.40	<b>Eytan Ruppin (Tel Aviv University, Israel)</b> <i>A computational account of cancer metabolism</i>
16.40 – 17.10	<b>Karen Vousden (The Beatson Institute for Cancer Research, UK)</b> <i>p53 and metabolism</i>
18.00	<b>Social</b> <i>The Caves</i>

**September 21, 2010 Chaired by Dan Tennant (The Beatson Institute for Cancer Research, UK)**

09.00 – 09.30	<b>Chi Van Dang (John Hopkins Medical School, US)</b> <i>Myc, MicroRNAs, and targeting cancer metabolism</i>
09.30 – 09.45	<b>Miriam Zanuy (Universitat de Barcelona, Spain)</b> <i>CDK4/6/2 Play a key role in the unbalance of the pentose phosphate pathway</i>
09.45 – 10.00	<b>Cadenas Cristina (Leibniz Research Centre for Working Environment and Human Factors, Germany)</b> <i>ERBB2 oncogene-mediated tumour metabolome and its role in prognosis of breast cancer</i>
10.00 – 10.15	<b>Patrick Pollard (University of Oxford, UK)</b> <i>Dysregulation of hypoxia pathways in Fumarate hydratase deficient cells is independent of defective mitochondrial metabolism</i>
10.15 – 10.30	<b>Andrew Reynolds (Institute of Cancer Research, UK)</b> <i>Use of FDG-PET imaging to predict outcome in response to anti-angiogenic therapy</i>
10.30 – 11.00	<b>Coffee and poster viewing</b>
11.00 – 11.30	<b>Gregg Semenza (John Hopkins University School of Medicine, US)</b> <i>HIF-1: Upstream and Downstream of Cancer Metabolism</i>
11.30 – 12.00	<b>Jacques Pouyssegur (Centre National de la Recherche Scientifique, France)</b> <i>Tumour hypoxia and metabolic acidosis - Targeting pHi control</i>
12.00 – 12.30	<b>Peter Carmeliet (VIB - Katholieke Universiteit Leuven, Belgium)</b> <i>Oxygen sensing, hypoxia tolerance and metabolism</i>
12.30 – 14.25	<b>Lunch and poster viewing</b>
14.25 – 14.40	<b>Marie Morfouace (Inserm, France)</b> <i>DCA modulates cancer stem cells' metabolism and response to apoptosis in a model of enu-induced rat brain tumours</i>
14.40 – 14.55	<b>Renee Johnson (Newcastle University Institute for Cell and Molecular Biosciences, UK)</b> <i>p53 dependent regulation of mitochondrial energy production by the RelA NF-KB subunit</i>
14.55– 15.25	<b>Eyal Gottlieb (The Beatson Institute for Cancer Research, UK)</b> <i>Metabolic transformation in cancer: novel pathways, new targets</i>
15.30	<b>Conference ends</b>