

COURSE IN CANCER METABOLISM

November 29-30, 2018

The University Residential Centre of Bertinoro (CEUB.), Bertinoro di Romagna, Italy

Course Description:

Cancer cells must acquire several biological properties in order to survive, proliferate, disseminate and become malignant. These hallmarks of cancer comprise sustaining proliferative signaling, evading growth suppressors, resisting cell death, and activating invasion/metastasis, all of which conspire to lead to pathologically high growth rate, and ultimately tumorigenesis. In the last ten years, an increasing body of research coming from the use of innovative large-scale genomics, proteomics and metabolomics profiling suggests that most and perhaps all human tumors display a metabolic plasticity that transformed cells undergo to survive the adverse tumor microenvironment conditions. Thus, metabolic reprogramming has become an additional hallmark of cancer, which is an example of a genetic human disease with metabolic alterations. This has led scientists to investigate the intricate metabolic plasticity besides the Warburg effect, and to dissect metabolic pathways like glutamine and lipid/fatty acid metabolism, among others, which play critical roles in cancer growth and are thus potential molecular target to develop novel therapeutics strategies.

Faculty members:

Ralph J. DeBerardinis (Children's Medical Center Research Institute, University of Texas Southwestern Medical Center, USA); **Fátima Baltazar** (Life and Health Sciences Research Institute, School of Health Sciences, University of Minho, Portugal; ICVS/3B's - PT Government Associate Laboratory, Braga/Guimarães, Portugal); **Bernhard Radlwimmer** (Cancer Research Center - DKFZ, Germany); **Almut Schulze** (Department of Biochemistry and Molecular Biology, Theodor-Boveri-Institute, Biocenter, Würzburg, Germany); **Ana Mateus** (Senior Editor at Nature Metabolism, London, UK); **Luigi Ombrato** (The Francis Crick Institute, London, UK); **Gyorgy Szabadkai** (Department of Cell and Developmental Biology, Consortium for Mitochondrial Research, University College London, London; Department of Biomedical Sciences, University of Padova, Padova, Italy; The Francis Crick Institute, London, UK); **Fatima Mechta-Grigoriou** (Stress and Cancer Laboratory, Institut Curie, Inserm U830, Paris, France); **Laurent Le Cam** (Institut de Recherche en Cancérologie de Montpellier, INSERM, University of Montpellier, France); **Cristina Muñoz Pinedo** (Cell Death Regulation Group, Bellvitge Biomedical Research Institute, Barcelona, Spain).

Afternoon sessions will be dedicated to the TRANSMIT ESRs presentations



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