



PRINCIPE FELIPE
CENTRO DE INVESTIGACION

The Future of Biomedical Research Lecture Series

Fuel and Oil of the Cancer Engine

Speaker: **Dr. Arkaitz Carracedo**

CIC bioGUNE, Bizkaia Technology Park

Biochemistry and Molecular Biology Department, University of the Basque Country, Bilbao

Date: **19/01/18- 12:30h**

Place: Salón de Actos CIPF

Abstract: The products of metabolic pathways serve unexpected purposes in the process of cancer cell growth and dissemination. Despite the better understanding of the metabolic events that contribute to cancer, the field has not yet clarified (i) how these metabolic events are coordinately elicited, and, importantly, (ii) what differential metabolic cues drive cancer initiation and metastasis.

In order to decipher metabolic drivers of cancer, we envisioned a study that integrates bioinformatics screening, genetic mouse modeling and integrative metabolomics. We based our studies on the interplay between the signaling and metabolism in prostate cancer, exemplified by loss of PTEN in this tissue. We will provide an integrated perspective of the means and regulation of the metabolic switch in this disease. Specifically, we will elaborate on the distinct use of fuel for growth and the identification of metabolic pathways that serve to sustain biological processes related to growth, thus oiling the engine.

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