

Speaker: Dr Lluís Fajás

Title: "Cycling through metabolism"

Summary: The main focus of this research has been the link between cell cycle regulation, proliferation and metabolism in the context of metabolic pathologies, such as obesity and diabetes and in the context of cancer. Our laboratory, among others, has shown that cancer-cell metabolism is reprogrammed through the regulation of metabolic enzymes by various cell cycle regulators. Moreover, we have demonstrated that some of these cell cycle regulators, like the pRB-cdk4-E2F1 pathway, control metabolism of adult non-proliferative cells, and that their activity is altered especially under pathological conditions contributing to obesity and diabetes.