LUXEMBOURG INSTITUTE OF HEALTH
RESEARCH DEDICATED TO LIFE

LECTURE | **Prof Sarah-Maria FENDT** | **22.04.2021** | **Webex** | **2:00 pm**

Metabolic rewiring driving metastasis formation

ABSTRACT

Metabolic rewiring is a hallmark of cancer cells. However, how nutrients drive the ability of cancer cells to rewire their metabolism is poorly defined. We are investigating the in vivo nutrient metabolism during metastasis formation to mechanistically understand how nutrients from the microenvironment enable cancers to progress from a local to a systemic disease. Using 13C tracer infusions in mouse models we find that nutrient availability shapes the metabolism and phenotype of cells and subsequently promotes the progression of cancer. Consequently, interfering with nutrient metabolism emerges as a promising therapeutic strategy against cancer. Taken together, our research highlights that nutrient metabolism is an important driver of cancer progression.

SPEAKER:
Prof Sarah-Maria FENDT
Group Leader Laboratory of Cellular Metabolism and Metabolic Regulation
VIB-KU Leuven Center for Cancer Biology

HOST:
Dr Johannes Meiser
Department of Oncology (LIH)
johannes.meiser@lih.lu

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