Prof. Dr. Almut Schulze



Head of Division – Tumor Metabolism and Microenvironment
– German Cancer Research Center (DKFZ), Heidelberg

Role in LiSyM-Cancer

- Project leader in SMART-NAFLD; oncogenic signaling and cancer metabolism with a focus on the regulation of lipid metabolism, liquid chromatography-coupled mass spectrometry and metabolic flux analysis, contributes orbitrap mass spectrometers for lipidomics and metabolomics

Expertise

- Regulation of metabolic processes by oncogenic signaling and functional analysis of metabolic dependencies of cancer cells
- Regulation of lipid synthesis during cell growth and cell transformation
- Cellular energy control and stress response pathways
- Metabolomics and flux analysis

Degrees

- 1992, Diploma in Biology, Technical University Darmstadt, Germany
- 1996, PhD in Biology, Ruprecht-Karls-University Heidelberg, Germany (summa cum laude)

Professional Experience

- Since 2029, Head of Division “Tumor Metabolism and Microenvironment” at DKFZ and Full Professor (W3) Medical Faculty, Ruprecht-Karls University, Heidelberg
- 2014 - 2019, Professorship Metabolic Reprogramming (W2), University of Würzburg
- 2002 - 2013, Group Leader, Gene Expression Analysis Laboratory, Cancer Research UK London Research Institute, United Kingdom
- 1997 - 2002, Postdoctoral Fellow, Signal Transduction Laboratory, Imperial Cancer Research Fund, United Kingdom
- 1996 - 1997, Postdoctoral Fellow, Applied Tumour Virology, German Cancer Research Centre, Heidelberg, Germany

Honors and Awards (Selection)

- Since 2018, Member “Hinterzartner Kreis” of the German Research Foundation (DFG)
- 2008 - 2011, EMBO Young Investigator Programme (EMBO YIP)
- 1997 - 1999, EMBO long-term fellowship

Publications

2025-02-01 Targeting aldolase A in hepatocellular carcinoma leads to imbalanced glycolysis and energy stress due to uncontrolled FBP accumulation
Nature Metabolism