Dr. rer. nat. Elisa Holstein



Former PhD Student - DKFZ, Klingmüller Lab

Role in LiSyM-Cancer

- Time-resolved analysis of GAS6/AXL and TGFβ signaling and changes in ECM composition in the context of liver cirrhosis and HCC
- Supervisor: Prof. Ursula Klingmüller

Expertise

- Signal transduction in liver cells in the context of liver fibrosis, cirrhosis and HCC
- Mass spectrometry-based analysis of the phosphoproteome and total proteome

Professional Experience

- Reseach project/networks:
    - LiSyM Cancer I/II
    - LiSyM

Degrees

- PhD (Dr. rer. nat.)
  Faculty of Biosciences, Heidelberg University
  PhD thesis in the Department of Systems Biology of Signal Transduction, German Cancer Research Center (DKFZ), Heidelberg
  Influence of TGFβ and GAS6-Induced Signal Transduction on Hepatic Stellate Cell-Induced Extracellular Matrix Alterations in Liver Fibrosis and Hepatocellular Carcinoma (Magna cum Laude)
- Master of Science: Molecular Biology with focus on Molecular Medicine
  University of Vienna
  Master thesis at the Cancer Research Institute, Medical University of Vienna
  The role of CXCL5 and neutrophil extracellular traps in Hepatocellular Carcinoma (mit Auszeichnung bestanden)

  Erasmus Study Abroad Program at the University of Oulu, Finland
- Bachelor of Science: Biology with focus on Molecular Biology
  University of Vienna
  Bachelor thesis at the Cancer Research Institute, Medical University of Vienna
  GAS6-independent signalling of the receptor tyrosine kinase AXL in Hepatocellular Carcinoma

Publications

2026-06-10	Transient suppression of the ECM1 gatekeeper is essential for HGF/c-MET-driven liver regeneration
2025-11-01	Diclofenac and acetaminophen dim the acute-phase response but amplify expression of the iron regulator hepcidin in liver cancer cells *Cell Systems*