Dr. rer. nat. Laura Feiner



Postdoc - Department of General Surgery
at Saarland University Medical Center

Role in LiSyM-Cancer

- Scientific researcher
- Laboratory Head: PD Dr. Claudia Rubie
- Department Chair: Prof. Dr. Matthias Glanemann
- Sample acquisition and biobanking (cryopreserved liver tissue, formalin-fixed paraffin-embedded (FFPE) tissue blocks, blood plasma, and serum)
- Isolation and distribution of primary hepatocytes and primary fibroblasts derived from native liver tissue
- Coordination of sample provision and shipment to consortium partners

Expertise

- The role of epigenetic mechanisms, particularly DNA methylation, in aging and cancer
- Cell culture, ELISA, Western blotting, real-time PCR (qPCR), next-generation sequencing (NGS), DNA methylation analysis

Professional Experience

- Reseach project/networks:
    - LiSyM-Cancer Phase I + II – C-TIP-HCC: Mechanism-based Multiscale Model to Dissect the Tipping Point from Liver Cirrhosis to Hepatocellular Carcinoma
    - DFG-funded project: Investigation of obesity in relation to the IGF/mTOR signaling pathway, associated regulatory microRNAs, and age-related disease-associated epigenetic alteration.
    - HOMFOR-funded project: Investigation of alterations in DNA methylation and gene expression in Werner syndrome as a model of accelerated aging.

Degrees

- PhD (Dr. rer. nat)
  2025
  Saarland University
  PhD thesis at the Department of General Surgery, Visceral, Vascular and Pediatric Surgery, Saarland University Medical Center, Homburg, Germany
  Genome-wide investigation of age-associated DNA methylation differences to identify age-associated differentially expressed genes
- Master: Medical Biology
  2018
  University Duisburg-Essen
- Bachelor: Applied Life Sciences
  2016
  Kaiserslautern University of Applied Sciences

Publications

2026-03-14	Semi-automated isolation of parenchymal and non-parenchymal liver cells from mice and humans with enhanced stellate cell fraction *Cell & Bioscience*
2025-07-17	ECM1 expression in chronic liver disease: Regulation by EGF/STAT1 and IFNgamma/NRF2 signalling. *JHEP Rep*
2024-01-01	The Interplay of TGF-β1 and Cholesterol Orchestrating Hepatocyte Cell Fate, EMT, and Signals for HSC Activation *Cellular and Molecular Gastroenterology and Hepatology*