LiSyM Cancer
Liver Systems Medicine against Cancer

Prof. Dr. Daniel Seehofer

Clinic Director, Head of Hepatobiliary Surgery and Visceral Transplantation – Clinic and Polyclinic for Visceral, Transplantation, Thoracic and Vascular Surgery – University Hospital Leipzig

Role in LiSyM-Cancer

- Project leader in SMART-NAFLD
- Project leader in DEEP-HCC
- Contributes patient cohorts, samples and data

Expertise

- Involved in numerous clinical and experimental research projects on liver tumors, hepato-biliary surgery and transplantation

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*
2025-12-17	Human assembloids recapitulate periportal liver tissue in vitro *Nature*
2025-11-12	Human Hepatocytes in Experimental Steatosis: Influence of Donor Sex and Sex Hormones *Biomedicines*
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*
2025-08-01	Investigation and Distinction of Energy Metabolism in Proliferating Hepatocytes and Hepatocellular Carcinoma Cells *Cells*
2025-03-18	Cell Homeostasis or Cell Death—The Balancing Act Between Autophagy and Apoptosis Caused by Steatosis-Induced Endoplasmic Reticulum (ER) Stress *Cells*
2024-12-23	Impact of Hedgehog modulators on signaling pathways in primary murine and human hepatocytes in vitro: insights into liver metabolism *Archives of Toxicology*
2024-01-12	Basal MET phosphorylation is an indicator of hepatocyte dysregulation in liver disease *Molecular Systems Biology*
2023-12-15	SARS-CoV-2 mRNA vaccination–induced immunological memory in human nonlymphoid and lymphoid tissues *Journal of Clinical Investigation*
2023-01-20	Optimization of extracellular matrix for primary human hepatocyte cultures using mixed collagen-Matrigel matrices. *EXCLI J*
2022-06-01	Diploid hepatocytes drive physiological liver renewal in adult humans *Cell Systems*