

## Ongoing research projects/Grants

NAME	POSITION TITLE
<b>Schadde Erik, MD, FACS, FEBS (HPB)</b>	(1) Associate Professor of Surgery, Dept. of Surgery, Rush University Medical Center, Chicago, Illinois, USA (2) Leitender Arzt (Consultant), Dept. of Surgery, Cantonal Hospital Winterthur (3) Research Associate, Institute of Physiology, University of Zurich, Switzerland

- **LIVERGROUP.ORG registry for outcomes of liver surgery.** International observational cohort study of the outcomes of liver surgery in 2016. Role: PI Switzerland. **No external funding** International registry to study and define the outcomes of complex liver surgery. Chief investigators: Max Malago, London and Alessandro Serrablo, Zaragoza, Spain. Current ethics status: Ethics approval lead center in London, UK
- **Resectable pancreatic adenocarcinoma – Does the type of anesthesia have an impact on circulating tumor cells? A double blinded – randomized controlled trial.** Role: Coinvestigator **Funding: STUDY GRANT BAXTER CARE ANESTHESIA CHF 50.000** Sponsor: Prof. B. Beck-Schimmer, Anesthesiology and Physiology, University and University Hospital Zurich. This is a trial focusing on the effect of anesthetics on circulating tumor cells. Co-variate: volatile vs. propofol anesthesia. Endpoint: number of circulating tumor cells perioperatively. Status: submission to ethics committee
- **Rat model of rapid hypertrophy of the liver, PART I.** Role: PI. **No external funding** Co-investigators: B. Beck-Schimmer and Martin Schläpfer, Institute of Anesthesiology, University Hospital Zurich and Institute of Physiology, University of Zurich. Development of a rat model of rapid liver hypertrophy shows that hypoxia regulates the speed of hepatic hypertrophy. Paper in submission. New project: Role of prolyl-hydroxylase blockers in rapid hypertrophy
- **From damage control to preemptive repair. Understanding the role of hypoxia in perioperative liver protection** Role: Collaborator **Funding: SNF Grant Nr. 310030\_179247 CHF 570.000** PI B. Beck-Schimmer Institute of Anesthesiology, University Hospital Zurich and Institute of Physiology, University of Zurich. Elucidation of the role of prolyl-hydroxylase blockers in rapid hypertrophy
- **Pig model of rapid liver hypertrophy.** Role: PI. **No external funding** Sponsor: Martin Hertl, Jack Fraser Professor of Surgery and Chairman ad-interim, Department of Surgery, Rush University Medical Center. Rapid hypertrophy allows in-situ growth of a small liver segment for transplantation in pigs. Study to evaluate the feasibility of transplantation of livers after in-situ proliferation.
- **Hypoxic doping of donor organs in transplantation** Role: PI. **Funding Gift of Hope (Organ Procurement Organization Chicago) US\$ 146.000** Comparative Research Center, Department of Surgery, Rush University Medical Center