13th Swiss Experimental Surgery Symposium

The right treatment at the right time to the right patient

January 12/13, 2017
University of Fribourg
Switzerland
www.sess.ch
Dear Colleagues and Friends

It is our pleasure to welcome you in Fribourg to the 13th SESS, which is supported by the Department of Surgery (Chairman: Prof. B. Egger), HFR Fribourg – Cantonal Hospital and the Department of Intensive Care Medicine (Director: Prof. J. Takala), University of Bern.

We are looking forward to an interesting and challenging symposium.

Bernhard Egger, MD, Prof. (founding member 2005)
Stephan Jakob, MD, Prof. (founding member 2005)
Antoine Meyer, MD

Thursday, January 12, 2017

12:45 Welcome words
Introduction

13:00 Evaluating therapeutic approaches in experimental animals with organ damage, University of Zurich
Chairmen: R. Graf, Zurich and S. Jakob, Bern
Role of thyroid hormone T3 in pancreatic acinar cell regeneration E. Malagola, Zurich
Inhibition of Class I HDAC ameliorates acute and chronic pancreatitis by reducing leukocyte recruitment, acinar-to-ductal metaplasia and fibrosis M. Bombardo, Zurich
Short, Cool, and Well Oxygenated – HOPE for Kidney Transplantation in a Rodent Model P. Kron, Zurich
Indian hedgehog mediates early acceleration of liver regeneration induced by ALPPS surgery M. Langiewicz, Zurich

14:30 News from the Experimental Surgery Institute, University of Bern
Chairmen: S. Jakob, Bern and U. Kessler, Fribourg
Delaying death: Inhibition of neuronal apoptosis in a cardiac arrest model M. Hänngi, Bern
Establishment of an oxygen-glucose deprivation protocol for organotypic hippocampal cultures P. Meyer, Bern
Alterations in splanchnic hemodynamics during liver regeneration A. Kohler, Bern
How to visualize intraabdominal pressure A. Bloch, Bern
Blood volume and its relation to cardiac output D. Berger, Bern

16:00 Coffee break

16:30 Translational Biomedical Engineering, Current activities of the ARTORG Center, Bern
Chairmen: S. Weber, Bern and M. Menth, Fribourg
Bone Anchored Port: Background and First Experience D. Uehlinger, Bern
Hemodynamics of the portal vein after liver resection D. Obrist, Bern
Towards the use of robotic assistance for safe retinal microsurgery R. Sznitman, Bern
Robotic Cochlea implantation – experience after the first cases S. Weber, Bern

18:00 End of first day
Friday, January 13, 2017

08:25 Welcome words
   I. Spicher, Fribourg

08:30 Organoid and PDX models for optimisation of patient treatments, University of Bern
   Chairmen: D. Stroka, Bern and M. Peter, Fribourg
   3D mouse mammary cancer organoids as tool for rapid in vivo validation of S. Rottenberg, Bern
   The role of Progenitor cells and organoids in the translational research of prostate cancer
   3D culture system for in vitro differentiation of sensory hair cells from Lgr5+ somatic cochlear stem cells and pluripotent stem cells
   Gallbladder as a source of liver progenitor cells to model liver disease
   M. Kruithof-de Julio, Bern
   S. Rottenberg, Bern
   M. Kruithof-de Julio, Bern
   M. Roccio, Bern
   D. Stroka, Bern

10:00 Coffee break

10:30 3R in Experimental Surgery
   Chairmen: C. Pillonel, Fribourg and A. Meyer, Fribourg
   Rodents have a right for asepsis
   S. Zeiter, Davos
   N. Cesarovic, Zurich
   Surgical Training on P.O.P. Pulsating-Organ-Perfusion-Simulator, 15 years of experience with surgical skills training on isolated porcine specimen
   W. Brunner, St. Gallen
   Animal welfare follow-up after surgical procedures
   I. Desbaillet Hakimi, Lausanne

12:00 Lunch break and poster session

13:30 New developments in cell therapy, University of Geneva
   Chairmen: L. Bühler, Geneva and F. Pugin, Fribourg
   New hybrid hydrogels for cell microencapsulation
   Isolation and studies of liver cell
   Multipotent mesenchymal stromal cells stimulate insulin secretion from human islets
   Transplantation of encapsulated mesenchymal stromal cells for the treatment of steatohepatitis
   Transplantation of mesenchymal stromal cells: risks and benefits
   S. Gerber, Geneva
   J. Meyer, Geneva
   E. Montanari, Geneva
   R. Meier, Geneva
   C. Gonelle, Geneva

15:00 Klaiber’s Lecture: Post-mortem angiography: a method that makes the invisible visible
   Chairman: B. Egger, Fribourg
   S. Grabherr, Lausanne

15:30 Coffee break

16:00 Models for personalized treatment evaluation: from single cell analysis to whole lungs, University of Bern
   Chairmen: R. Schmid, Bern and D. Mayer, Fribourg
   Characterization of stem cell-like subpopulations in human lung cancer samples by multicolor flow cytometry
   Functional lung-on-chip models for personalised medicine applications
   Organotypic cultures as ex-vivo models for predicting tumor responses to anti-cancer modalities
   Stem cells and their products for lung transplantation
   T. M. Marti, Bern
   O. T. Guenat, Bern
   Y. Zimmer, Bern
   A. Gazdhar, Bern
   B. Egger, S. Jakob

17:00 Closing remarks and fare well drink
   B. Egger, S. Jakob
INFORMATION

Registration
Registration can be done on-line on www.sess.ch. All major credit cards are accepted and tickets can be printed on your printer. Until December 31, 2016 early bird registrations benefit from a lower fee. Onsite registration is possible with a surcharge on both days.

Abstract Submission
Abstract Submission for poster session on Friday can be submitted by email to antoine.meyer@h-fr.ch. Deadline for submissions is January 9, 2017. Poster prize (if at least 5 posters are submitted): Posters will be evaluated by a team of experts; the authors of the winning poster will receive CHF 500.-.

Venue
University of Fribourg - Faculté des sciences
Boulevard de Pérolles 90
1700 Fribourg
Switzerland
Room: Auditory A120, located on the first floor
Getting there from the train station:
Bus no. 1 direction Marly or no. 3 direction Pérolles,
Bus stop: Charmettes.

Language
Official meeting language is English. However speakers are allowed to deliver their speeches in German or French as well. Discussions will be held in English.

Accreditation
This event will be accredited by the following organizations:
Swiss Society of Surgery SGC-SCC 11 CME points
Swiss Society of General Internal Medecine SGIM/SSMI 9 CME points
Swiss Association of Cantonal Veterinaries ASVC/VSKT 1.5 day of continuing education for animal experiments
Swiss Society of Intensive Care Medecine SGI 8 CME points
Swiss Society of Anesthesiology and Reanimation SGAR/SSAR 3 CME points

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