SWISS EXPERIMENTAL SURGERY SYMPOSIUM



Swiss Experimental Surgery Symposium

The Future is the Present

January 10/11, 2019

University of Fribourg Switzerland

www.sess.ch

Dear Colleagues and Friends

It is our pleasure to **welcome you in Fribourg for the 15th Swiss Experimental Surgery Symposium** (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. S. Jakob), 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 10, 2019

13:30 - 13:45	Introduction	C. Bochet, B. Egger, S. Jakob
13:45 - 14:45	Department of Surgery and Transplantation of University Hospital Zürich	-)
	Chairmen: R. Graf, Zürich / B. Egger, Fribourg	
	The impact of HIPEC on the anticancer immune response The role of Gastrokine 1, a gastric tumor suppressor, in pancreatic carcinogenesis	L. Roth S. Steiner
	Ex-vivo Hypothermic Oxygenated Perfusion of liver grafts prior to transplantation	X. Müller
	Microstructural analysis of the human ingestive behavior following Roux-en-Y gastric bypass – a prospective observational controlled pilot study	D. Gero
14:45 - 15:45	News from the Experimental Surgery Institute, University of Bern Chairmen: S. Jakob, Bern / D. Mayer, Fribourg	
	Efficacy of phagetherapy for the treatment of ventilator associated pneumonia due to methicillin resistant Staphylococcus aureus: a pilot study in rats	M. Iten
	The role of right atrial pressure for the cardiac output: an experimental study in pigs	D. Berger
	Neurogenic progenitor cells as restorative therapy after cardiac arrest	P. Meyer
15:45 - 16:00	Coffee break	
16:00 - 17:00	Translational Biomedical Engineering Current activities of the ARTORG Center	
	Chairmen: S. Weber, Bern / M. Menth, Fribourg Image guidance for ablation of liver tumors – update on today's clinics and outlook	P. Tinguely
	Leadless multi-chamber pacing and intra-body communication	A. Häberlin
	Bone Anchored Port: Background and Initial Clinical Experience Robotic cochlear implantation – Clinical experience and outlook	M. Caversaccio S. Weber
17:00 - 18:00	Future for patients and researchers Chairmen: O. Dormond, Lausanne/ M. Chilcott, Fribourg	
	Liquid Biopsy: Concept and Potential Applications in Cancer	I. Labgaa
	Multisensory-motor integration in peripersonal space mediating self- objects interactions in real and virtual environments	A. Serino
	Data Management Plan (DMP) & Open Data in Life Science	C. Lebrand

Friday, January 11, 2019

8:30 - 9:30	Organoid and PDX models for optimisation of patient treatments Chairmen: D. Stroka, Bern/ G. Beldi, Bern	
	HCC- in vitro and in vivo patient-derived xenograft models to study hepatocellular carcinoma	J. Gavini
	Liver Regeneration : Function of Tight junctions in liver regeneration RILD : Radiation-induced liver disease mouse model using X-RAD SmART	F. Baier N. Melin
	Transgenics-Production of Ajuba knockout mice by pronuclear CRISPR/Cas9 pronuclear injection	N. Dommann
09:30 - 10:30	Swiss 3R Competence Center Chairmen: I. Desbaillets, Swiss3rcc / S. Jakob, Bern	
	Introduction to the Swiss 3R Competence Center	I. Desbaillets
	Rodent refinement : tricks from the field Happy sheep make happy surgeons, scientists and vets. Practical	G. Ferrand S. Zeiter
	refinement before, during and after sheep surgeries	5. Zeiter
	Protocol refinement in blind minipigs implanted with a retinal prosthesis to restore vision	D. Ghezzi
10:30 - 11:00	Coffee break	
11:00 - 12:00	Vascular surgery CHUV	
	Chairmen: S. Déglise, Lausanne / B. Walpoth, Genève Local delivery of H2S limits the development of intimal hyperplasia in	F. Allagnat
	human vein segments The ACE inhibitor Zofenopril is more potent than enalapril in limiting intimal hyperplasia after carotid artery stenosis in hypertensive mice	D. Macabrey
	Benefits of H2S during renal ischemia-reperfusion injury Biphasic drug delivery system to prevent intimal hyperplasia in open vascular surgical procedures	A. Longchamp F. Saucy
12:00 - 13:15	Lunch break and poster session	
13:15 - 14:15	Cells and organ transplantation	
13.13 11.13	Chairmen: L. Bühler, Genève / F. Pugin, Fribourg	
	Co-culture and encapsulation of neonatal porcine islets with	C. Gonelle
	mesenchymal stem cells from different origins Benefits of hydrogen sulfide in ischemia-reperfusion injury : the smell of	A. Longchamp
	renal protection	
	Platelets in liver regeneration	A. Balaphas
14:15 - 14:45	Klaiber's Lecture: The surgical anatomy of the human liver	J. Fasel; Geneva
	Chairman: B. Egger, Fribourg	
14:45 - 15:15	Coffee break	
15:15 - 16:15	The importance of collaboration between the clinic and basic science for translational research	
	Chairmen: R. Schmid, Bern / M. Kauper, Fribourg	
	Targeting therapy-resistant thoracic tumors	RW. Peng, H. Yang, D. Xu
	Interrogating the tumor microenvironment in lung cancer	S. R. R. Hall
	Involvement of mitochondrial metabolism in lung cancer therapy resistance	T. M. Marti, Y. Gao
	Bioartificial lung-on-chip for precision medicine applications	O. T. Guenat,
16:15 -16:30	Closing remarks and fare well drink	P. Zamprogno B. Egger, S. Jakob
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Please note already in your calendar: Next SESS in **Geneva on February 6th, 2020**

REGISTRATION / 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, 2018 early bird registrations benefit from a lower fee. Onsite registration is possible with an additional charge.

Abstract Submission

Abstract Submission for poster session on Friday can be submitted by email to <u>antoine.meyer@h-fr.ch</u>. Deadline for submissions is January 7, 2019. 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

Université de Fribourg, Freiburger Universität Faculté des Sciences -Mathematisch-Naturwissenschaftliche Fakultät Boulevard de Pérolles 90 1700 Fribourg Switzerland

Auditory *A120*, located on the first floor (*red arrow*)

Bus from train station: 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

The event will be accredited by the following organizations:

Swiss Society of Surgery SGC Swiss Society of General Internal Medecine SGIM/SSMI Swiss Society of Intensive Care Medicine SGI Swiss Society of Anesthesiology und Reanimation SGAR/ SSAR Swiss Association of Cantonal Veterinaries ASVC/ VSKT (* to be confirmed, see www.sess.ch)

11 CME points 9 CME points *x CME points 3.5 CME points 1 day of continuing education for animal experiments

Contact

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Herewith we would also like to give our special thanks to all of our sponsors for supporting this meeting. Please visit our sponsor's page on-line on *www.sess.ch*.