

Ion channels in physiology, disease, and as drug targets

Description	The objective of the course will be to give to young scientists not familiar with the field on ion channels a first overview on the roles of ion channels in physiology and in pathophysiology (so called channelopathies). The field of ion channel pharmacology and the current challenges in this field will also be addressed.
Eligibility	Any participants that have at least a Master degree in any of the life science fields, in particular biology, biochemistry, physiology, medicine.
Course Structure	1st half day: Lectures 2nd half day: Journal Clubs with speakers 3rd half day: practical work 4th half day: practical work Please check the detailed description below.
Assessment	Participation to all activities and presentation of a journal club.
Dates	Thursday 1 and Friday September 2, 2011
Credits	1 ECTS
Facilitators	Prof. Hugues Abriel and Dr. Jean-Sébastien Rougier (University of Bern, Department of Clinical Research)
Location	University of Bern, Department of Clinical Research, Murtenstrasse 35, 3010 Bern
Registration	send an Email to Sina.Henrichs@mci.unibe.ch

Programme - Ion channels in physiology, disease, and as drug targets - TransCure - September 1st and 2nd, 2011

Speaker	Sept 1st-1st half day	lecture "Title"	location
Abriel Hugues, Prof. Dr. Department of Clinical Research, UniBE	08.30 h	Welcome and Introduction	MEM* H813
Coulombe Alain, Prof. Dr. Université Pierre et Marie Curie, F-Paris	08.40 h	"History of the concept of the ion channels"	MEM* H813
Kucera Jan, Prof. Dr. Department of Physiology, UniBE	09.20 h	"Molecular physiology and biophysics of ion channels"	MEM* H813
	10.00 h	coffee break	MEM*
Egger Marcel, Prof. Dr. Department of Physiology, UniBE	10.20 h	"Roles of ion channels in cardiac cells"	MEM* H813
Lüthi Anita, Prof. Dr. Department of Cell Biology and Morphology, Unil	11.00 h	"Roles of ion channels in neurons"	MEM* H813
Kellenberger Stephan, PD Dr. Department of Pharmacology and Toxicology, Unil	11.40 h	"Introduction on the pharmacology of ion channels"	MEM* H813
Rougier Jean-Sébastien, Dr. Department of Clinical Research, UniBE	12.20h	"Diseases caused by ion channel dysfunction: channelopathies"	MEM* H813
	13.00 h	lunch	Stella**
	Sept 1st-2nd half day	Journal Clubs	location
	14.00 h	Journal Club 1 / Journal Club 2	MEM* H812 / MEM* H813
	15.15 h	coffee break	MEM*
	15.40 h	Journal Club 3 / Journal Club 4	MEM* H812 / MEM* H813
	17.00 h	Cheese and Meat Plate	MEM*
	Sept 2nd-1st half day	Practical Work	location
Kucera Jan, Prof. Dr. Department of Physiology, UniBE	09.00 h	Practical Work	Dept.Chemie und Biochemie***
	10.00 h	coffee break	
	10.20 h	Practical Work	
	12.30 h	lunch	Stella**
	Sept 2nd- 2nd half day	Practical Work	location
Rougier Jean-Sébastien, Dr. Department of Clinical Research, UniBE	13.30 h	Practical Work	MEM G818
	15.00 h	coffee break	MEM*
	15.20 h	Practical Work	MEM G818
	16.30 h	end	

*MEM = Maurice E. Müller-Haus, Murtenstrasse 35, 3010 Bern

** Restaurant Stella, Wirtschaftsgebäude, Inselspital

*** Departement Chemie und Biochemie, Freiestrasse 3, Laborraum, 6. Stock Trakt Nord, 3012 Bern