



# Swiss Physiology & Ion Channels and Membrane Transporters Joint Meeting 2023

06 September 2023 – UniS – UNIBE – Bern

## Program

- 08:45 – 09:20**      **Registration & Welcome coffee**
- 09:20 – 09:25**      **Welcome and Introductory remarks by Christine Peinelt (University of Bern) & Hugues Abriel (University of Bern), presidents of the LS<sup>2</sup> Sections Physiology and ICMT.**
- 09:25 – 10:10**      **Keynote lecture I**

(Chair: C. Peinelt. UNIBE)

**Raimund Dutzler**

(University of Zurich, Switzerland)

“Activation and inhibition of the calcium-activated chloride channel TMEM16A”.

- 10:10 – 10:35**      **\*Young Investigator Award, Poster competition\***  
**Flash talks from poster finalists (3' + 2')**

(Chair: D. Hoogewijs. UNIFR)

**PhD students (x4)**

- **Miriam Barbieri** (University of Bern)  
“SGK1 inhibition normalize action potential duration in transgenic LQT2 rabbits but not in LQT1, suggesting a novel gene-specific therapeutic approach in Long QT Syndrome”.
- **Camille Rabesahala de Meritens** (University of Geneva)  
“STIM1/2-mediated Ca<sup>2+</sup> elevations enhance the release of mouse neutrophils extracellular traps”.
- **Malgorzata Wilk** (University of Zurich)  
“Heterogeneity of hypoxia-inducible gene expression on the single-cell level”.
- **Matteo Caretti** (University of Fribourg)  
“Role of Arginase-II in the age-related skeletal muscle degeneration”



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10:35 – 10:40

Sponsored talk by Nanion Technologies

Søren Friis

“Investigating Ion Channels and Transporters using automated electrophysiology methods”

**nan|i|on**

10:40 – 11:15

Coffee break & Industry Exhibition

11:15 – 12:00

Keynote lecture II

(Chair: H. Abriel. UNIBE)

**Milena Bellin**

(University of Padua, IT.)

"Cardiac organoids from human pluripotent stem cells for modelling inherited diseases of the heart"

12:00 – 13:00

Lunch, Coffee & Industry Exhibition

13:00 – 14:00

Poster viewing & Industry Exhibition

14:00 – 15:00

**\*Young Investigator Award, Oral Communication\***

**Session-I:** Talks from 4 oral finalists (10' + 5') **PhD students**

(Chair: C. Manatschal. UZH)

- **Avigail Ehrlich** (University of Geneva)  
“Sex-dependent effects of Panx1 deletion in lymphatic endothelium”
- **Lucilla Giammarino** (University of Bern)  
“Do sex and sex hormones impact on atrial electrical features?”
- **Saranda Nimani** (University of Bern)  
“In vivo KCNH2-suppression-replacement gene therapy in transgenic rabbits with type 1 short QT syndrome”
- **Cheng Xin** (University of Fribourg)  
“Arginase II mediates hypoxia-induced blood-brain-barrier disruption”



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**15:00 – 15:30**      **Coffee break & Industry Exhibition**

**15:30 – 16:30**      **\*Young Investigator Award, Oral Communication\***

**Session-II:** Talks from 4 oral finalists (10' + 5') **Postdocs**

(Chair: M. Frieden. UNIGE)

- **Carina Osterhof** (University of Fribourg)  
"Expression analysis and functional characterization of an oxygen-binding protein in an unconventional physiological model system"
- **Dulio Michele Potenza** (University of Fribourg)  
"Arginase II ablation prevents high salt intake-induced coronary dysfunction and cardiac remodeling"
- **Adjela Markovic** (University of Fribourg)  
"Tracking physiological responses to COVID-19 vaccination using wearable technology"
- **Andras Horvath** (University of Bern)  
"Cellular Na<sup>+</sup> and Ca<sup>2+</sup>-handling properties and its sex differences in rabbit atrial cardiomyocytes"

**16:30 – 17:00**      **Coffee Break & Industry Exhibition.**

*Parallel Jury session*

**17:00 – 17:20**      **LS<sup>2</sup> ICMT & LS<sup>2</sup> Physiology Section  
Meeting (open to all)**



**17:20 – 17:30**      **Award Ceremony: YIA Research Prize 2023  
of the "Stiftung für Physiologie"**



Presented by: TBA

**17:30 – 17:35**      **Closing remarks by Hugues Abriel and Christine Peinelt,  
presidents of the LS<sup>2</sup> Sections ICMT & Physiology.**