



Swiss Physiology Meeting 2022

Bern. 6 September 2022 – UniS UNIBE

Program

- 08:45 – 09:20** **Registration & Welcome coffee**
- 09:20 – 09:25** **Welcome and Introductory remarks**
(Chair: Christine Peinelt from UNIBE.
President of the LS² Section Physiology)
- 09:25 – 10:10** **Keynote lecture I**
(Chairs: Christine Peinelt &
Maria Constanza Maldifassi from UNIBE)

Angelika Lampert

(RWTH Aachen University, Germany)

"iPS-cell derived nociceptors to study the pathophysiology of pain-linked sodium channel mutations"

- 10:10 – 10:45** ***Young Investigator Award, Poster competition***
Flash talks from 6 poster finalists (3'+2')
(Chair: Nicolas Demaurex from UNIGE)

PhD students (x3)

- **Mey Boukenna** (University of Bern)
"The ambiguous role of TRPM4 in myocardial infarction"

- **Loann Laubry** (University of Geneva)
“STIM1 and STIM1L in skeletal muscle: distinct isoforms for distinct functions?”
- **Cheng Xin** (University of Fribourg)
“Arginase-II deficiency prevents blood-brain-barrier disruption induced by hypoxia”

Postdocs (x3)

- **Yiqiong Ma** (University of Fribourg)
“Role of arginase-II in human podocyte injury under hypoxic conditions”
- **Axel Tollance** (University of Geneva)
“Ca²⁺-independent role of Orai3 in the human muscle stem cell activation”
- **Chih-Chieh Tsao** (University of Zurich)
“Pericyte hypoxia-inducible factor-1 (HIF-1) is required for blood-brain barrier recovery during the long-term stroke”

10:45 – 11:15

Coffee break & Industry Exhibition

11:15 – 12:00

Keynote lecture II

(Chair: Zhihong Yang from UNIFR)

Johan Auwerx

(Laboratory of Integrative Systems Physiology - EPFL)

"Cross species of genetics to identify targets in mitochondria and aging"

12:00 – 13:00

Lunch & Coffee

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')

(Chair: Maud Frieden from UNIGE)

PhD students (x4)

- **Lucilla Giammarino** (University of Bern)
“Sex differences and effects of sex hormones on electrical features in atrial cardiomyocytes and atrial fibroblasts”
- **Axelle Bouche** (University of Geneva)
“Pax7High human muscle stem cells are in a deeper quiescent state and operate a metabolic shift toward fatty acid oxidation”
- **Tahir Idris** (University of Geneva)
“Dysfunction of the CFTR channel alters Wnt and TGFβ signaling during polarization of the Cystic Fibrosis airway epithelium”
- **Mayis Kaba** (University of Geneva)
“The phosphatidylinositol transfer proteins Nir2/3 maintain limiting PI(4,5)P2 levels during the formation of phagocytic vacuoles”

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')

(Chair: Thomas Lutz from UZH)

Postdocs

- **Mary LaPierre** (ETH Zurich affiliation)
“MicroRNA-7 regulates melanocortin circuits involved in mammalian energy homeostasis”
- **Oksana Iamshanova** (University of Bern)
“Dimerization of the cardiac sodium channel Nav1.5”
- **Sven Kappel** (University of Bern)
“P53 alters intracellular calcium signaling through regulation of TRPM4”

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- **Darko Maric** (University of Fribourg)
“Novel Epo regulating transcription factors”

16:30 – 17:00

Coffee Break & Industry Exhibition.

Parallel Jury session

17:00 – 17:20

LS² Physiology Section Meeting (open to all)



17:20 – 17:30

Award Ceremony: YIA Research Prize 2022 of the "Stiftung für Physiologie"

Presented by: Ernst Niggli and Christine Peinelt



17:30 – 17:35

Closing remarks by Christine Peinelt (UNIBE), president of the LS² Physiology Section.