



Program Swiss Physiology Meeting 2021

6 September 2021 - Fribourg

Meeting Venue: HES-SO Fribourg,
Bd de Péroles 80. CH-1700 Fribourg

08:45 – 09:20

Registration

(Groundfloor of HES-SO Fribourg)

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

(Chair: Zhihong Yang from UNIFR)

Ralf Brandes

(*Vascular Research Centre. Frankfurt am Main. DE*)

Epigenetic Aspects of Angiogenesis

10:10 – 10:45

Young Investigator Award, Poster competition

Flash talks from 6 poster finalists (3⁺+2⁺)

(Chair: Thomas Lutz from UZH)

PhD students

- **Christopher Henry** (*UNIGE*)

The cortical endoplasmic reticulum extends during store-operated calcium entry to limit calcium fluxes

- **Koay Teng Wei** (*UNIFR*)
Calcium-dependent ADGB proteolysis reveals its association with the centriole
- **Axel Tollance** (*UNIGE*)
Role of Ca²⁺ signals in the activation mechanisms of human muscle reserve cells

Postdocs

- **Mehdi Badaoui** (*UNIGE*)
CFTR dysfunction causes a post-transcriptional imbalance towards mRNA stabilization of a guanine exchange factor by the RNA-binding protein HuR
- **Yiqiong Ma** (*UNIFR*)
Role of arginase-II in human podocyte injury under hypoxic conditions
- **Darko Maric** (*UNIFR*)
Novel Epo regulating transcription factors

10:45 – 11:05 **Coffee break** (at HES-SO restaurant)

11:05 – 11:35 **Industry Exhibition**

11:35 – 12:20 **Keynote lecture II**



(Chair: Christine Peinelt from UNIBE)

Miriam Stoeber (*University of Geneva. CH*)

Cellular landscape of GPCR activation and signaling

12:20 – 12:25 **Sponsored talk**

(Chair: Zhihong Yang from UNIFR)

Federico Montechiaro (*UgoBasile*)

**Thermal Preference and Pain
Physiology, new tools**



12:25 – 13:20 **Lunch + coffee** (at the HES-SO restaurant)

13:20 – 14:20 **Poster viewing & Industry Exhibition**

14:20 – 15:20
Session-I

Young Investigator Award, Oral Communication

Talks from 4 oral finalists (10'+ 5')

(Chair: Maud Frieden from UNIGE)

PhD students

- **Jessica Brunetti** (*UNIGE*)
Physiological roles of Store-Operated Calcium Entry (SOCE) during in vitro maturation of human myotubes
- **Ena Ivanovic** (*UNIBE*)
Narrow perinexi potentiate ephaptic coupling for co-localized Na⁺ channel clusters and gap junctional plaques in the intercalated disc: a computational study
- **Kevin Thomas** (*UNIFR*)
Electrophysiological and behavioral assessment of posterior nucleus basalis GABAergic neurons' role in modulation of auditory information processing
- **Camille Rabesahala de Meritens** (*Univ. Hospital Geneva*)
Neutrophil extracellular trap (NET) formation in mice with Stim1/2 myeloid-specific ablation.

15:20 – 15:25 **Sponsored talk**

(Chair: Christine Peinelt from UNIBE)

Markus Uhrig (*OLS OMNI Life Sciences*)

No Stress for Cells and Staff, Modern Technologies in 2D and 3D cell culture



15:25 – 15:55 **Coffee break** (at the HES-SO restaurant) **& Industry Exhibition.**

15:55 – 16:55
Session-II

Young Investigator Award, Oral Communication

Talks from 4 oral finalists (10'+ 5')

(Chair: David Hoogewijs from UNIFR)

Postdocs

- **Etienne de Coulon** (UNIBE)
Linear strain single-cell electrophysiology (LSSE):
Combining patch clamp recording with dynamic whole
cell stretching
- **Jade Montgomery** (UNIGE)
Ain't nothing but a heartbreak: Effects of chronic
hypoxia on ischemic injury response in cardiac
endothelial cells and fibroblasts
- **Lalita Oparija** (University of Melbourne)
Change in food intake time relative to light-dark
cycle causes organ- and sex-specific circadian
responses in mice
- **Duilio Michele Potenza** (UNIFR)
Hypoxia induces renal epithelial injury and activates
fibrotic signaling through up-regulation of arginase 2

16:55 – 17:00 Sponsored talk

(Chair: Zhihong Yang from UNIFR)

Corinne Tancredi Charbonnet
(Molecular Devices LLC)



Title tba

17:00 – 17:30 Industry Exhibition.

Parallel Jury session

17:30 – 17:50 LS² Physiology Section Meeting (open to all)



17:50 – 18:00 Award Ceremony: YIA Research Prize 2021
of the "Stiftung für Physiologie"

Presented by: Ernst Niggli and Christine Peinelt



18:00 – 18:05 Closing remarks by Christine Peinelt (UNIBE), president
of the LS² Physiology Section.