

PROGRAMME 2015

- 09h30 – 10h10** **Registration and coffee**
Studentisches Zentrum Bühlplatzareal
- 10h10 – 10h15** **Welcome and introductory remarks**
Lecture Hall Bühlplatzareal
- 10h15 – 11h15** **Keynote lecture: Prof. Dr. Magdalini Polymenidou**
Institute of Molecular Life Sciences, University of Zürich
Pathogenic mechanisms of ALS and FTD: from RNA misregulation to protein aggregation
- 11h30 – 12h00** **Young Investigator Award: poster “Blitz presentations” (3 min. each)**
- Samuel Bouvet**
Role of the SNARE Sec22b at ER-Phagosome contact sites
- Isabel de Araújo Salgado**
Transient genetic tagging of local neuronal networks
- Christine Fülling**
New insights into serotonin 1a receptor dependent gender differences
- Sibylle Horat**
Distinct neuronal bases involved in the proposer and responder condition of the ultimatum game
- Ilaria Orlando**
Modulation of oxygen-regulated erythropoietin expression
- Yuyan Xiong**
Arginase-II impairs endothelial autophagy through regulation of mTOR and AMPK signalling in advanced atherosclerosis
- Yi Yu**
Role of p38 mitogen-activated protein kinase in vascular endothelial aging: interaction with arginase-II and S6K1 signalling pathway
- 12h00 – 12h30** **Business meeting of the Society**
- 12h30 – 13h00** **Poster viewing**
- 13h00 – 14h00** **Lunch (for registered attendees only!)**

14h00 – 14h30 **Poster viewing**

14h30 – 16h30 **Young Investigator Award: oral communications** (15 min. each)

Federico Brandalise

The NMDA-spike as the ultimate effector in timing-dependent plasticity at hippocampal CA3 recurrent synapses

Monica Bulla

Orai1 mutations associated with tubular aggregate myopathy

Jean-François Denis

Shear stress-mediated expression of the atheroprotective transcription factor KLF4 regulates Cx40 in endothelial cells

Daniele Guido

Junctate boosts phagocytosis by recruiting endoplasmic reticulum Ca²⁺ stores near phagosomes

Magda Langiewicz

Molecular mechanisms underlying the unprecedented liver regeneration induced by ALPPS surgery

Sandro Lecci

Infra-slow neural and cardiac fluctuations predict behavioural arousability during NREM sleep

Jonas Streit

High-precision all-optical method for cell-based drug screening on voltage-gated ion channels

Marcel Wullschleger

Microdomain calcium release events and their interplay in atrial cardio-myocytes

16h30 – 16h45 **Jury session**

16h45 – 17h00 **Award ceremony: YIA Research Prize of the Oetliker Foundation 2015**

17h00 **End of meeting**

PROGRAMME 2014

- 09h30 – 10h00 Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h00 – 10h05 Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h05 – 10h45 Keynote lecture: Prof. Amos Bairoch**
Department of Human Protein Science, University of Geneva and Swiss Institute of Bioinformatics
Why is biocuration important for the life sciences research community?
- 10h45 – 11h30 Young Investigator Award: short poster presentations**
(3 min. each + 2 min. discussion)
- Isabel de Araújo Salgado**
Cortical circuits matching body metabolic signals and behaviour
- Elena Dolgodilina**
Blood brain barrier amino acid transporters regulation of brain interstitial fluid amino acid homeostasis
- Marta Figueiredo**
Characterization of ATP6ap2 (pro-renin receptor) in receptor mediated endocytosis by the renal proximal tubule
- Kamile Grabliauskaite**
P21/WAF1/Cip1 limits senescence and acinar-to-ductal metaplasia formation during pancreatitis
- Manon Rosselin**
Opa1 promotes mitochondrial flashes reflecting pH transients within the mitochondrial matrix and the intermembrane space
- Richard Ruez**
Implication of Connexin43 in bone marrow-derived dendritic cell migration
- Yuyan Xiong**
Long term exposure to L-arginine accelerates endothelial cell senescence through arginase-II and S6K1 signalling
- 11h30 – 12h45 Business meeting of the Society, followed by presentation of goals and structure of LS² by Prof. Thierry Soldati from University of Geneva**

12h45 – 13h30 Lunch (for registered attendees only!)

13h30 – 14h30 Poster viewing

14h30 – 16h30 Young Investigator Award: oral communications
(10 min. each + 5 min. discussion)

Gaetano Bonifacio

Description of concerted movements during ASIC1a activity

Federico Brandalise

The NMDA-spike as a fundamental mechanism in timing-dependent plasticity at hippocampal CA3 recurrent synapses

Ximena Castillo

Lactate neuroprotection in cerebral ischemia: a dual mode of action

Daniele Guido

Junctate drives ER-Phagosome membrane contact site formation that promotes periphagosomal Ca²⁺ microdomains

Holger Lehmann

Combined deletion of Vhl and loss of the primary cilium dysregulates planar cell division and causes simple and atypical renal cysts

Filippo Molica

Selective inhibition of platelet aggregation by targeting a novel membrane channel

Enrica Saponara

Serotonin influences cytoskeletal remodelling during the formation of pancreatic acinar-to-ductal-metaplasia

Yi Yu

P38 mitogen-activated protein kinase is involved in arginase-II-mediated eNOS-uncoupling in obesity

16h30 – 16h45 Jury session

16h45 – 17h00 Award ceremony: YIA Research Prize of the Oetliker Foundation 2014

17h00 End of meeting

PROGRAMME 2013

- 09h30 – 10h10** **Registration and coffee**
Studentisches Zentrum Bühlplatzareal
- 10h10 – 10h15** **Welcome and introductory remarks**
Lecture Hall Bühlplatzareal
- 10h15 – 11h15** **Keynote lecture: Prof. Bernard Thorens**
Centre de Génomique Intégratif, University of Lausanne
Interorgan communication in the control of pancreatic beta cell mass and function
- 11h30 – 12h00** **Young Investigator Award: poster “Blitz presentations” (3 min. each)**
- Isabel de Araújo Salgado**
Cortical circuits matching body metabolic signals and behaviour
- Daniele Guido**
STIM1-dependent and independent mechanisms of ER-Phagosome contact site formation
- Pascal Haenggi**
The N-methyl-D-aspartate receptor during erythropoietic maturation
- Christine Massonnet**
Sensory stimulation leads to a modified gene expression after whisker stimulation in the adult mouse barrel cortex
- Richard Ruez**
Functional expression of Pannexin 1 in the hypoxic human airway epithelium
- Zongsong Wu**
Arginase-II induces endothelial senescence-associated secretory phenotype through P38MAPK
- 12h00 – 12h30** **Business meeting of the Society**
- 12h30 – 13h00** **Poster viewing**
- 13h00 – 14h00** **Lunch** (for registered attendees only!)

14h00 – 14h30 **Poster viewing**

14h30 – 16h30 **Young Investigator Award: oral communications** (15 min. each)

Jun Ding

The peroxisomal enzyme L-PBE is required to prevent the dietary toxicity of medium chain fatty acids

Fabian Junker

MicroRNAs are essential for Notch-driven T-ALL

Asya Makhro

NMDA receptor in rat and human heart

Sarah Moyle

Controlling myofibroblast arrhythmogenicity with optogenetic tools

Theresa Rimmele

Interactions between potassium and glutamate clearance mechanisms in glial cells

Zita Rovó

Synaptic GABA-A receptor independent regulation of major thalamocortical rhythms

Jaime Santo-Domingo

Mitochondrial Ca²⁺ uptake does not regulate the activity of store-operated Ca²⁺ entry channels

16h30 – 16h45 **Jury session**

16h45 – 17h00 **Award ceremony: YIA Research Prize of the Oetliker Foundation 2013**

17h00 **End of meeting**

PROGRAMME 2012

- 09h30 – 10h10 Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15 Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h15 Keynote lecture: Prof. Paul Herrling**
Chair of the Board of the Novartis Institute for Tropical Diseases
Drug discovery for neglected diseases
- 11h30 – 12h00 Young Investigator Award: short poster presentations (3 min. each)**
- Kessara Chan**
Characterization of a sic38A3 (SNAT3) deficient mouse
- Adriano Guetg**
Cooperation of uniporters and exchangers for epithelial transport of amino acids
- Martina Heidemann**
Assessing spinal cord regeneration in a petri dish
- Daniela Nizzari**
4E-BP1 does not regulate overall protein synthesis in different O₂ sensitive brain cells
- Elodie Robin**
Interstitial formation of adenosine and inosine is proarrhythmic through adenosine A₁ receptor in the developing heart
- Dheeraj Shinde**
Chorio-allantoic membrane assay for pre-clinical cancer therapy screening: simultaneous targeting of oxygenated and hypoxic tumour cells
- Federica Storti**
Oxygen-regulated expression of erythropoietin in cellular models
- Ninda Syam**
Biochemical studies of TRAPM4: a channel with a novel role in the pathogenicity of cardiac arrhythmias?
- 12h00 – 12h45 Business meeting of the Society including elections of the committee**
- 12h45 – 13h30 Lunch (for registered attendees only!)**

13h30 – 14h30 **Poster viewing**

14h30 – 16h30 **Young Investigator Award: oral communications** (15 min. each)

Daniel Gutierrez

In cardiac myocytes the elevation of Ca²⁺ spark frequency during beta-adrenergic stimulation depends on CaMKII and nitric oxide

Josua Jordi

Unique roles for 3 specific amino acids in the central control of eating behaviour

Cédric J. Laedermann

Ubiquitin ligase Nedd4-2 modulates peripheral sensory voltage-gated sodium channels and contributes to neuropathic pain

Irene Marcu

Functional characterization of stem cell-derived cardiomyocytes

Merlijn Meens

Implication of endothelial Cx37 and Cx40 in basal and activated NO-release

Martina Perin

Orexin-A inhibits NMDA receptor function at hippocampal synapses, depending on the time-of-day

Diana Shy

PDZ domain-binding motif of the cardiac sodium channel Nav1.5 regulates functional channel expression and cardiac conduction

Yu Wang

Deficiency of the pH receptors OGR1 or GPR4 ameliorates inflammatory bowel disease

16h30 – 16h45 **Jury session**

16h45 – 17h00 **Prof. Hans Oetliker**

Presentation of the Oetliker Foundation for Physiology, the new sponsor of the SPS Young Investigator Award

17h00 **End of meeting**

PROGRAMME 2011

- 09h30 – 10h10 Registration and coffee**
Studentisches Zentrum Bühlplatzareal
- 10h10 – 10h15 Welcome and introductory remarks**
Lecture Hall Bühlplatzareal
- 10h15 – 11h15 Keynote lecture:**
NCCR Kidney – *Control of homeostasis*
François Verrey – *Kidney. Swiss aims and organization*
Johannes Loffing – *Integrative control of potassium homeostasis*
Roland Wenger – *Renal oxygen sensing and signalling*
- 11h30 – 12h00 Asher-Hess contest: poster “Blitz presentations” (3 min. each)**
- Lisa Bounoure**
The ammonia channel RhCG contributes to renal ammonium excretion during high protein intake
- Yves Guoriou**
Role of T-Type Ca²⁺ channels in a cellular model of stroke
- Komuraiah Mykala**
Generation of renal-specific and inducible knock out model of the Na/Pi-cotransporter
- Paula Nunes**
STIM1-mediated recruitment of ER membranes to nascent phagosomes
- Sergej Yakushev**
Reversible oxidative THIOL modifications in control of Na, K-ATPase activity in hypoxic heart
- Gautham Yepuri**
Arginase-II promotes endothelial dysfunction and macrophage inflammation contributing to insulin resistance and atherogenesis
- 12h00 – 12h30 Business meeting of the Society**
- 12h30 – 13h00 Poster viewing**
- 13h00 – 14h00 Lunch (for registered attendees only!)**

14h00 – 14h30 **Poster viewing**

14h30 – 16h30 **Asher-Hess contest: oral communications** (15 min. each)

Alok K. Behera

Improved L-Tryptophan FRET biosensor for measurement of real time transport and visualization of subcellular tryptophan levels in live cells

Sigrid M. Blom

Neuronal excitability and synaptic plasticity of cortical neurons in neuropathic pain

Nicole B. Kampik

Loss of differentiated intercalated cells in the absence of AE1

Davide Losa

*Cx43 participates in the airway epithelium defense against *Pseudomonas aeruginosa* infection by a TLR5-dependent mechanism*

Asya Makhro

N-methyl-D-aspartate receptors (NMDAR) in rat heart

Elodie Robin

Adenosine A1 receptor activation is arrhythmogenic in the developing heart through NADPH oxidase/ERK- and PLC/PKC-dependent mechanisms

Jaime Santo-Domingo

Alkalinization transients in individual mitochondria

Srividya Velagapudi

Arginase-II increases vascular endothelial adhesion molecule expression through eNOS-uncoupling in senescent endothelial cells

16h30 – 16h45 **Jury session**

16h45 – 17h00 **Award of the Asher-Hess contest**

17h00 **End of meeting**

PROGRAMME 2010

- 09h30 – 10h10 Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15 Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h15 Keynote lecture: Dr. Andreas Caduff**
Chief Technology Officer, Solianis Monitoring AG, Zürich
Effects of in vivo glucose excursion and biophysical implications
- 11h30 – 12h00 Asher-Hess contest: short poster presentations** (3 min. each)
- 12h00 – 12h30 Business meeting of the Society**
- 12h30 – 13h00 Poster viewing**
- 13h00 – 14h00 Lunch** (for registered attendees only!)
- 14h00 – 14h30 Poster viewing**
- 14h30 – 16h30 Asher-Hess contest: oral communications** (15 min. each)
- 16h30 – 16h45 Jury session**
- 16h45 – 17h00 Award of the Asher-Hess**
- 17h00 End of meeting**

PROGRAMME 2009

- 09h30 – 10h10 Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15 Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h15 Keynote lecture: Prof. Steven A. Brown**
Institute for Pharmacology and Toxicology, University of Zürich
Studying human daily behaviour in culture
- 11h30 – 12h00 Asher-Hess contest: short poster presentations** (3 min. each)
- 12h00 – 12h30 Business meeting of the Society**
- 12h30 – 13h00 Poster viewing**
- 13h00 – 14h00 Lunch** (for registered attendees only!)
- 14h00 – 14h30 Poster viewing**
- 14h30 – 16h20 Asher-Hess contest: oral communications** (15 min. each)
- 16h20 – 16h35 Jury session**
- 16h35 – 16h45 Award of the Asher-Hess contest**
- 16h45 End of meeting**

PROGRAMME 2008

- 09h30 – 10h10** **Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15** **Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h15** **Keynote lecture: Prof. Susanne Suter**
President of the Swiss Science and Technology Council
Medical demography
- 11h30 – 12h00** **Asher-Hess contest: short poster presentations** (3 min. each)
- 12h00 – 12h30** **Business meeting of the Society**
- 12h30 – 13h00** **Poster viewing**
- 13h00 – 14h00** **Lunch** (for registered attendees only!)
- 14h00 – 14h30** **Poster viewing**
- 14h30 – 16h20** **Asher-Hess contest: oral communications** (15 min. each)
- 16h20 – 16h35** **Jury session**
- 16h35 – 16h45** **Award of the Asher-Hess contest**
- 16h45** **End of meeting**

PROGRAMME 2007

- 09h30 – 10h10 Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15 Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h15 Keynote lecture: Martin Fischer**
Head of communication, State Secretariat for Education and Research
*The State Secretariat for Education and Research (SER): its role for the Swiss
Science landscape now and tomorrow*
- 11h30 – 12h00 Asher-Hess contest: short poster presentations** (3 min. each)
- 12h00 – 12h30 Business meeting of the Society**
- 12h30 – 13h00 Poster viewing**
- 13h00 – 14h00 Lunch** (for registered attendees only!)
- 14h00 – 14h30 Poster viewing**
- 14h30 – 16h20 Asher-Hess contest: oral communications** (15 min. each)
- 16h20 – 16h35 Jury session**
- 16h35 – 16h45 Award of the Asher-Hess contest**
- 16h45 End of meeting**

PROGRAMME 2006

- 09h30 – 10h10 Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15 Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h15 Keynote lecture: Prof. Dr. med Peter J. Meier-Abt**
Vice-rector, University of Basel
Clinical research in Switzerland
- 11h30 – 12h00 Asher-Hess contest: short poster presentations** (3 min. each)
- 12h00 – 12h30 Business meeting of the Society**
- 12h30 – 13h00 Poster viewing**
- 13h00 – 14h00 Lunch** (for registered attendees only!)
- 14h00 – 14h30 Poster viewing**
- 14h30 – 16h20 Asher-Hess contest: oral communications** (15 min. each)
- 16h20 – 16h35 Jury session**
- 16h35 – 16h45 Award of the Asher-Hess contest**
- 16h45 End of meeting**

PROGRAMME 2005

- 09h30 – 10h10** **Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15** **Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h30** **Keynote lecture: Prof. E. Hafen**
President of the ETH Zürich
Systems biology: the basis for modern physiology?
- 11h30 – 12h30** **Asher-Hess contest: short poster presentations** (3 min. each)
- 12h30 – 13h00** **Business meeting of the Society**
- 13h00 – 14h00** **Lunch** (for registered attendees only!)
- 14h00 – 16h00** **Asher-Hess contest: oral communications** (15 min. each)
- 16h00 – 16h15** **Jury session**
- 16h15 – 16h30** **Award of the Asher-Hess contest**
- 16h30** **End of meeting**

PROGRAMME 2004

- 09h30 – 10h10** **Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15** **Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h00** **Business meeting of the Society**
- 11h00 – 12h30** **Keynote lecture: Prof. Peter Suter**
Vice-Rector of the University of Geneva
Reforms in medicine – PBL, early clinical contact, human sciences and Bologna
- 12h30 – 14h00** **Lunch** (for registered attendees only!)
- 14h00 – 16h00** **Aster-Hess contest: oral communications** (15 min. each)
- 16h00 – 16h15** **Jury session**
- 16h15 – 16h30** **Award of the Aster-Hess contest**
- 16h30** **End of meeting**

PROGRAMME 2003

- 09h30 – 10h10** **Registration and coffee**
Reception Hall of the Institute of Physiology
- 10h10 – 10h15** **Welcome and introductory remarks**
Lecture Hall of the Department of Chemistry
- 10h15 – 11h30** **Keynote lecture: Susanne Failing**
Eurosearch network, Bern
How to apply for European research funds?
- 11h30 – 12h15** **Business meeting of the Society**
- 12h15 – 14h00** **Lunch** (for registered attendees only!)
- 14h00 – 16h00** **Aster-Hess contest: oral communications** (15 min. each)
- 16h00 – 16h15** **Jury session**
- 16h15 – 16h30** **Award of the Aster-Hess contest**
- 16h30** **End of meeting**