



Meeting program

LS² Cardiovascular Biology Annual Conference

Online
15.06 and 17.06.2021

Day 1: Tuesday, 15th June 2021

- 13:25-13:30** **Welcome note from the President of the LS² Intersection Cardiovascular Biology.**
Andrea Banfi (University of Basel)
- Session 1:** **Organoids/iPCS**
- Chair: **Nathalie Rosenblatt** (University of Lausanne)
- 13:30-14:00** **Keynote**
Sanjay Sinha (Univ. Cambridge)
"Cardiovascular "disease-in-a-dish"; all the right ingredients?"
- 14:00-14:20** **Invited talk**
Nathalie Gaborit (Univ. Nantes)
"Gaining insight into cardiac electrical disorders using human induced pluripotent stem cells".
- 14:20-15:10** **Talks selected from abstracts**
- Edoardo Lazzarini** (Cardiocentro Ticino Institute)
"Doxorubicin-induced cardiotoxicity enhance SARS-CoV-2 infection susceptibility in human cardiomyocytes"

Carolina Balbi (Cardiocentro Ticino)
"An exosomal-carried short periostin isoform induces cardiomyocyte proliferation"

Adelin Rouchon (University Hospital Basel)
"Rapid and physiological self-assembly of micro-vascular networks in vitro by VEGF-decoration of fibrin matrix"

Ettore Vanni (University of Geneva)
"Lipid droplets protect cardiomyocytes from lipotoxic impairment of glucose transport"

Forschung für Leben

15:10-15:20

Iana Buch ([Research for Life](#))
"Research for Life: Promoting dialogue between the public and biomedical researchers in Switzerland"

15:20-15:50

Break

Session 2:

Cardiac physiology

Chair: **Sarah Longnus** (University of Bern)

15:50-16:20

Keynote

Stephan Rohr (University of Bern)
"Non-cardiomyocytes and cardiac electrical function: Passive bystanders or active participants?"

16:20-16:40

Invited talk

Katja Odening (University of Bern)
"Mechanical dysfunction in "electrical" cardiac diseases - impact for arrhythmia and risk stratification"

16:40-17:30

Talks selected from abstracts

Olga Rusiecka (University of Geneva)
"Deletion of Pannexin1 confers protection against cardiac ischemia-reperfusion injury"

Samuele Ambrosini (University of Zurich)
"Targeting the methyltransferase SETD7 prevents myocardial ischemic injury: a translational study"

Manuel Egle (University of Bern)
"Hypothermic oxygenated perfusion (HOPE) of donor cardiac grafts obtained after circulatory death enhances vascular and contractile function by preserving endothelial NO production"

Anna Jazwinska (University of Fribourg)
"Oncogene-induced cardiac neoplasia shares similar mechanisms with heart regeneration in zebrafish"

17:30-18:00

Cardiovascular Working group: General Assembly

Day 2: Thursday, 17th June 2021

13:25-13:30 **Welcome by the Vice-President of the LS² Intersection Cardiovascular Biology.**
Elena Osto (University of Zurich)

Session 3: Gender differences

Chair: **Giovanni Camici** (University of Zurich)

13:30-14:00 **Keynote**
Hester Den Ruijter (University of Utrecht)
“Sex differences in atherosclerotic mechanisms”

14:00-14:20 **Invited talk**
Catherine Gebhard (University of Zurich)
“Sex and Gender in Cardiovascular Medicine”

14:20-15:10 **Talks selected from abstracts**

Eve Rigal ("Université Bourgogne Franche-Comté ")
“Postnatal overfeeding induces higher cardiac sensitivity to in vivo ischemia-reperfusion injury at all ages in males, but only in young females”

Kasturi Markandran (Nanyang Technological University)
“Role of phosphorylated Regulatory Light Chains (RLCs) during heart failure progression”

Daniela Baptista (University of Geneva)
“Transforming growth factor- β 1 deficiency in B cells decrease Atherosclerosis in Apoe^{-/-} mice”

Andrea Uccelli (University of Basel)
“Notch4 signaling regulates the outcome of splitting angiogenesis by VEGF”

15:10-15:15 **Industry talk.**
Dieter Fuchs ([FUJIFILM Visualsonics](#))
“New frontiers in In vivo cardiovascular imaging”

FUJIFILM
VISUALSONICS

15:15-15:40 **Break**

Session 4: Vascular signaling/Repair/Tissue engineering

Chair: **Andrea Banfi** (University of Basel)

15:40-16:10 **Keynote**
Paul Evans (University of Sheffield, UK)
“Effects of shear stress on endothelial cells”

- 16:10-16:30** **Priscilla Briquez** (Univ of Chicago & University of Freiburg a.B.)
“Therapeutic use of α 2-antiplasmin in hemostasis and wound healing”
- 16:30-17:20** **Talks selected from abstracts**
- Yustina Maria Puspitasari** (University of Zurich)
“MMP-2 gene silencing attenuates age-dependent carotid stiffness via reduction of elastin degradation and increased eNOS activation”
- Yuhan Chen** (University of Zurich)
“Critical role of bile acid receptor TGR5 in the amelioration of obesity related endothelial dysfunction after RYGB”
- Roberto Gianni Barrera** (University of Basel)
“Therapeutic arteriogenesis by fibrin-based delivery of engineered VEGF and PDGF-BB accelerates wound healing in diabetic mice”
- Michael Amponsah-Offeh** (TU Dresden)
“Potential therapeutic efficacy via α v β 3-integrin dependent interaction of Developmental Endothelial Locus-1 (Del-1) after established angiotensin-II dependent Hypertension”
- 17:20-17:40** **Break** (Award Committee finalizes prizes)
- 17:40-17:55** **Award Ceremony**
Best oral presentation sponsored by [NIKON](#)
- 17:55-18:00** **Closing remarks from the CVB president**
Andrea Banfi (University of Basel)

