



*University of Fribourg * Switzerland * 7 - 9 November 2016*

2016 SmArteR Workshop

Organizers:

Curzio Rüegg

University of Fribourg, Switzerland

Qingbo Xu

King's College London, United Kingdom

www.unifr.ch/med/smarter2016

Pérolles II - Boulevard de Pérolles 90

Programme:

- ° [Day one - Monday, November 7, 2016](#) °
- ° [Day two - Tuesday, November 8, 2016](#) °
- ° [Day three - Wednesday, November 9, 2016](#) °



Day one - Monday, November 7, 2016

[top](#)

13.00 on *Registration* Hall G130

14.00-14.15 Welcome address
 Qingbo Xu, King's College London
 Curzio Rüegg, University of Fribourg

Opening Keynote Lecture Room G120

Chair: Qingbo Xu

14.15-15.00 **Non-coding RNA control of vascular pathophysiology**
 Andrew H. Baker, *University of Edinburgh, United Kingdom*

Session 1.1 - Endothelial function and dysfunction Room G120

Chair: Paolo Madeddu

15.00-15.40 **Endothelial function and dysfunction**
 Keith Channon, *University of Oxford, United Kingdom*

15.40-16.20 **The role of perivascular adipose tissue in obesity-induced vascular dysfunction**
 Huige Li, *Johannes Gutenberg University Medical Center, Mainz, Germany*

16.20-17.00 **Endothelial responses to shear stress**
 Paul C. Evans, *University of Sheffield, United Kingdom*

17.00-18.00 *Welcome Drink* Hall G130

19.00-21.00 *Faculty and SmArteR Fellow's dinner* to be announced

Day two - Tuesday, November 8, 2016

[top](#)

Session 1.2 - Endothelial function and dysfunction

Joseph Deiss

08.30-09.10 **NADPH oxidase in Endothelial function and dysfunction**
Katrin Schröder, *Goethe University, Frankfurt, Germany*

09.10-09.50 **Arginase in vascular aging and disease**
Zhihong Yang, *University of Fribourg, Switzerland*

09.50-10.20 *Coffee break and poster viewing*

Hall Joseph Deiss

Session 2 - Update on small artery remodelling

Joseph Deiss

Chair: Ulrich Pohl

10.20-11.00 **Small artery remodelling: the integrative view**
Ed Van Bavel, *Academic Medical Center, Amsterdam, the Netherlands*

11.00-11.40 **Assessment of vascular remodelling in isolated human and rat resistance arteries**
Christian Aalkjaer, *Aarhus University, Denmark*

11.40-12.20 **Vascular remodelling: Role of LIM domain proteins as mechanotransducers**
Markus Hecker, *University of Heidelberg, Germany*

12.30-14.00 *Sandwich lunch and poster viewing*

Hall Joseph Deiss

Session 3 - Vascular wall: smooth muscle and extracellular matrix

Joseph Deiss

Chair: Curzio Rüegg

14.00-14.40 **AMPK in the control of microvascular tone: many arrows in the quiver**
Ulrich Pohl, *Ludwig Maximilian University, Munich, Germany*

14.40-15.20 **The role of biomechanical forces in intracranial aneurysm growth and rupture**
Brenda Kwak, *University of Geneva, Switzerland*

15.20-16.00 **Old and new targets of snake venom components in the vasculature**
Johannes A. Eble, *University of Münster, Germany*

16.30-18.30 *SmArteR Business meeting and brain storming*

Room 0.114, PER09
Ch. du Musée 5

19.30-22.00 *Social dinner*

to be announced

Day three - Wednesday, November 9, 2016

[top](#)

Session 4 - Vascular stem/progenitor cells in remodelling and repair

Room C120

Chair: Markus Hecker

08.00-08.40 **The translational pathway of vascular pericytes towards first in man trial for treatment of myocardial ischemia**

Paolo Madeddu, *University of Bristol, United Kingdom*

08.40-09.20 **From pericytes to mesenchymal stem cells: a natural reprogramming?**

Bruno Péault, *University of Edinburgh, United Kingdom*

09.20-10.00 **Cell reprogramming: A Powerful tool to study and repair endothelial cell dysfunction in vascular diseases**

Andriana Margariti, *Queen's University Belfast, United Kingdom*

10.00-11.00 *Tea and coffee break and poster viewing*

Hall H130

11.00-11.40 **Feeling the right force: how to contextualize the cell mechanical behavior in physiologic turnover and pathologic evolution of the cardiovascular system**

Maurizio Pesce, *Centro Cardiologico Monzino, IRCCS, Milan, Italy*

11.40-12.20 **Vascular stem cells - an update and perspective**

Qingbo Xu, *King's College London, BHF Centre London, United Kingdom*

12.20-12.30 *Closing remarks*

Qingbo Xu and Curzio Rüegg

12.30 on *Departure*