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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.00 on</td>
<td>Registration</td>
<td>Hall G130</td>
</tr>
</tbody>
</table>
| 14.00-14.15 | Welcome address  
Qingbo Xu, King's College London  
Curzio Rüegg, University of Fribourg | Room G120  |
| 14.15-15.00 | **Opening Keynote Lecture**  
Chair: Qingbo Xu  
Non-coding RNA control of vascular pathophysiology  
Andrew H. Baker, University of Edinburgh, United Kingdom | Room G120  |
| 15.00-15.40 | **Session 1.1 - Endothelial function and dysfunction**  
Chair: Curzio Rüegg  
Endothelial function and dysfunction  
Keith Channon, University of Oxford, United Kingdom | Room G120  |
| 15.40-16.20 | The role of perivascular adipose tissue in obesity-induced vascular dysfunction  
Huige Li, Johannes Gutenberg University Medical Center, Mainz, Germany | Room G120  |
| 16.20-17.00 | Endothelial responses to shear stress  
Paul C. Evans, University of Sheffield, United Kingdom | Room G120  |
| 17.00-18.00 | **Welcome Drink**  
Hall G130 | Hall G130  |
| 19.00-21.00 | **Faculty and SmArteR Fellow's dinner**  
Le Commerce | Le Commerce |
Session 1.2 - Endothelial function and dysfunction
Chair: Curzio Rüegg

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
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
Chair: Paolo Maddedu

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
Gemelli
Day three - Wednesday, November 9, 2016

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 A130

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