

Cardiovascular Research Meeting 2025

14 – 15 January 2025

Langhans Auditorium, Institute of Tissue Medicine and Pathology
University of Bern

Tuesday 14th January 2025

09:00-10:00 Registration and Welcome Coffee

10:00-10:10 Welcome note from the President of the LS² Intersection Cardiovascular Biology: **Marie-Luce Bochaton-Piallat** (Geneva)

10:10-12:00 Vascular Session 1

Chairs **Andrea Banfi** (Basel) / **Marie-Noelle Giraud** (Fribourg)

10:10-10:40 **Plenary speaker 1**

Britta Engelhardt (University of Bern, CH)

“How the brain barriers ensure central nervous system immune privilege”

10:40-11:30 **Talks selected from abstracts** (8 min + 4 min Q&A)

Pascal Azar (University of Geneva) - Smooth muscle cell-specific deletion of S100A4 modifies murine atherosclerotic plaques composition

Alessandra Vescovi (University of Basel) - VEGF chemically modified mRNA-loaded matrix for vascularized bone engineering

Julia Schulz (University of Bern) - ChemR23 receptor on macrophages modifies PVAT function and crosstalk within the arterial vasculature in atherosclerosis

Mannekomba Roxane Diabougua (University of Geneva) - Novel insights into TWIST1 signaling in atherosclerosis progression

11:30-12:00 **Plenary speaker 2**

Minna Kaikonen (A.I.Virtanen Institute for Molecular Sciences, FI)

“Mapping the genetic basis of atherosclerosis using single cell and functional genomics”

12:00-13:00 **Lunch break**

13:00-14:50 **Cardiac Session 1**

Chairs **Gabriela Kania** (Zurich) / **Lucio Barile** (Ticino)

13:00-13:30 **Plenary speaker 3**

Thierry Pedrazzini (School of Cardiovascular and Metabolic Medicine and Sciences King's College London, UK)

“[Harnessing long non-coding RNAs for heart regeneration](#)”

13:30-14:20 **Talks selected from abstracts** (8 min + 4 min Q&A)

Benedetta Coppe (University of Bern) - A paternal cardiac lesion induces cardiac adaptation in offspring

Vincent Hisler (University of Fribourg) - Cryoinjury of the platyfish heart leads to a transient ventricular aneurysm and non-proliferative remodeling of the myocardium.

Gino Andrea Bonazza (University Hospital Zurich) - Single-nuclei transcriptomics uncovers right ventricular adaptation to pulmonary hypertension

Alexia Clavier (University of Bern) - Sex differences in post-ischemic cardiac recovery in a rat model of donation after circulatory death (DCD)

14:20-14:50 **Plenary speaker 4:**

Carolin Lerchenmüller (University Hospital Zurich, CH)

“[The protective power of exercise on cardiovascular](#)”

14:50-15:10 **Flash talks preceding poster discussion**

Posters: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 22, 23, 24, 25, 26, 27, 28, 29.

Chairs

Christophe Montessuit (Geneva) / **Nathalie Rosenblatt** (Lausanne)

15:15-16:30 **Coffee break and poster session**

Evaluation committee: Nathalie Rosenblatt and Christophe Montessuit

16:30-16:45 **Olivier Buetzberger** (Agilent Technologies)

“[Leveraging Agilent's expertise in imaging and metabolic phenotyping in your cardiovascular research](#)”

16:45-17:45 **Keynote speaker**

Thomas F. Lüscher (Royal Brompton and Harefield Hospital and King's College London, UK and Center for Molecular Cardiology, University of Zurich, CH)

“Frontiers in cardiovascular research: Addressing unmet medical needs”

19:15

Fun Night (*Upon previous registration*)

Restaurant Dampfzentrale *Marzilistrasse 47, 3005 Bern*

Wednesday 15th January 2025

Chairs

Sarah Longnus (Bern) / **Giovanni Camici** (Zurich)

09:00-09:30

Plenary speaker 5

Brenda Kwak (University of Geneva, CH)

“Molecular markers of intracranial aneurysm wall integrity and stability”

09:30-10:20

Talks selected from abstracts (8 min + 4 min Q&A)

Yustina Maria Puspitasari (University of Zurich) - Ectoenzyme CD38: a novel determinant of age-associated vascular dysfunction

Pratintip Lee (University of Zurich) - Single-cell transcriptomics of bone marrow megakaryocytes reveal age-related immunothrombotic response

Clarisse Simons (University of Lausanne) - Influence of sex and pregnancy on the development of aortic aneurysm in a mouse model of Marfan syndrome

Kangmin Yang (University of Zurich) - Role of different adipose compartments in regulation of vascular function and metabolism

10:20-10:50

Plenary speaker 6

Daniilo Norata (Department of Excellence of Pharmacological and Biomolecular Sciences “Rodolfo Paoletti”; University of Milan, IT)

“Mitochondrial plasticity in cardiometabolic disorders”

10:50-11:10

Flash talks preceding poster discussion (1 min max)

Posters: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 30, 31, 32, 33, 34, 35, 36

Chairs

Christophe Montessuit (Geneva) / **Nathalie Rosenblatt** (Lausanne)

11:15-12:30

Coffee break and poster session

Evaluation committee: Nathalie Rosenblatt and Christophe Montessuit

12:30-13:30	Lunch break
13:30-13:50	Cardiovascular working group: General Assembly
13:50-15:40	Cardiac Session 2
Chairs	Jan Kucera (Bern) / Anna Jazwinska (Fribourg)
13:50-14:20	<p>Plenary speaker 7 Mathilda Mommersteeg (Institute of Developmental and Regenerative Medicine, Department of Physiology, Anatomy and Genetics, University of Oxford, UK) “Identifying the metabolic profile underlying successful fish heart regeneration”</p>
14:20-15:10	<p>Talks selected from abstracts (8 min + 4 min Q&A)</p> <p>Susan Bengs (University of Zurich) - A novel murine model of stress-induced cardiomyopathy achieved by chemogenetic stimulation of the locus coeruleus-norepinephrine system</p> <p>Andrea Addorisio (University of Lausanne) - Defining the role of the A-kinase anchoring protein 2 as a regulator of TGF-β secretion-induced cardiac fibrosis</p> <p>Malaury Tournier (University of Geneva) - A new stable Panx1 channel inhibitor protects against myocardial ischemia/reperfusion injury</p> <p>Edoardo Lazzarini (Istituto Cardiocentro Ticino - EOC Ospedale Cantonale) - Cell-type specific senolytic effects differentially influence cardiac responses to induced senescence</p>
15:10-15:40	<p>Plenary speaker 8 Serena Zacchigna (ICGEB and University of Trieste, IT) “Matching cardiac regeneration and re-vascularization”</p>
15:50–16:05	<p>Award Ceremony Marie-Luce Bochaton-Piallat (Geneva) / Sarah Longnus (Bern)</p>
16:05-16:10	<p>Closing remarks from the president of the LS² Cardiovascular Biology Inter-Section: Marie-Luce Bochaton-Piallat (Geneva)</p>