



CVRC

CardioVascular Research Cluster

BERN

Annual Meeting 2022

20 January 2022

Online presentations + On-site posters & Apéro,
Foyer Langhans Auditorium, Pathology

- New Aspects in Cardiovascular Imaging and Technologies
- Roundtable: Cardiovascular Digital Medicine and Big Data - Hype or Revolution?
- Sex Differences, Aging and Genetic Bases of Cardiovascular Diseases
- Acquired Cardiovascular Diseases, Metabolism and Prevention
- Vascular Disorders
- Arrhythmias
- Valvular and Structural Heart Diseases

Abstract submission deadline: 22.10.2021

Registration deadline: 06.01.2022

Participation is free. Submit abstract and register to: maria.arnold@dbmr.unibe.ch
There will be a prize competition for early career investigators.

Detailed Scientific Programme

10:55-11:00 Opening / Welcome (online)

Session 1: New Aspects in Cardiovascular Imaging and Technologies

Chairs:

Kady Fischer, Department of Anaesthesiology and Pain Medicine

Tobias Reichlin, Department of Cardiology

11:00 Title tba
 Christoph Gräni, Department of Cardiology

11:20-11:40 Flash presentations from abstracts

- Evaluation of a cuffless watch-like sensor for 24-hour ambulatory blood pressure monitoring
Jeremias Ambühl, Departments of Clinical Research and Cardiology
- Reproducibility of 4D cardiac computed tomography feature tracking myocardial strain and comparison against speckle-tracking echocardiography
Benedikt Bernhard, Department of Cardiology
- Caffeine and oxygen reduce aortic distensibility
Louis Setz, Department of Anaesthesiology and Pain Medicine

11:40-11:50 Break

Session 2: Roundtable on “Cardiovascular Digital Medicine and Big Data - Hype or Revolution?”

Chair:

Laurent Roten, Department of Cardiology

11:50-12:30 Cardiovascular Digital Medicine and Big Data - Hype or Revolution?

Panelists:

- Dominique Furrer, Direktion Lehre und Forschung, IDSC
- Taulant Muka, Institute of Social and Preventive Medicine
- Georgios Siontis, Department of Cardiology
- Raphael Sznitman, ARTORG and CAIM (Center for Artificial Intelligence in Medicine)

12:30-13:00 Lunch Break

Session 3: Sex Differences, Aging and Genetic Bases of Cardiovascular Diseases

Chairs:

Nadia Mercader, Institute of Anatomy

Marco Osterwalder, Department for Biomedical Research

13:00 **Title tba**
Babken Asatryan, Department of Cardiology

13:20-13:40 **Flash presentations from abstracts**

- Sex differences in atrial electrical function
Lucilla Giammarino, Translational Cardiology, Department of Physiology
- Sex and NT-proBNP: the potential mediating role of iron biomarkers
Farnaz Khatami, Institute of Social and Preventive Medicine
- Sex-specific association of pharmacotherapy dosage with major cardiovascular events in two cohorts of patients with atrial fibrillation
Jeanne Moor, Department of General Internal Medicine and Institute of Primary Health Care

13:40-13:50 Break

Session 4: Acquired Cardiovascular Diseases, Metabolism and Prevention

Chairs:

Sarah Longnus, Department of Cardiovascular Surgery and Department for Biomedical Research

Matthias Wilhelm, Department of Cardiology

13:50 **Title tba**
 Arjola Bano, Institute of Social and Preventive Medicine

14:10-14:30 **Flash presentations from abstracts**

- **Circulating DHEA-S levels and major cardiovascular outcomes in chronic Chagas cardiomyopathy: a prospective cohort study**
Sergio Alejandro Gómez Ochoa, Institute of Social and Preventive Medicine
- **Macrophage-derived extracellular vesicles (EVs) have functional and metabolic effects on cardiac grafts in isolated rat hearts**
Selianne Graf, Department of Cardiovascular Surgery and Department for BioMedical Research
- **The sulphated glycolipid Su₇Malt-Sp₆-C₂HN₃-CMG2-Ad-DE attenuates complement activation in an in vitro xenotransplantation model**
Neda Salimi, Department for BioMedical Research

14:30-14:40 **Break**

Session 5: Vascular Disorders

Chairs:

Yvonne Döring, Division of Angiology, Swiss Cardiovascular Centre

Florian Schönhoff, Department of Cardiovascular Surgery

14:40 **Title tba**
 Nicoletta Sorvillo, Department for Biomedical Research

15:00-15:20 Flash presentations from abstracts

- Clinical presentation of simple and combined or syndromic arteriovenous malformations
Sarah Maike Bernhard, Division of Angiology, Cardiovascular Center
- Venous endothelial cells are protected against heparan sulfate shedding
Anastasia Milusev, Department for BioMedical Research
- Unravel the role of ACKR3 expression on B cells in atherosclerosis
Anaïs Yerly, Division of Angiology, Swiss Cardiovascular Center and Department for BioMedical Research

15:20-15:30 Break

Session 6: Arrhythmias

Chairs:

Jan Kucera, Department of Physiology

Katja Odening, Translational Cardiology, Department of Cardiology and Department of Physiology

15:30

Title tba

Jean-Sébastien Rougier, Institute of Biochemistry and Molecular Medicine

15:50-16:10

Flash presentations from abstracts

- Association of diabetes with atrial fibrillation types: a systematic review and meta-analysis
Fadi Alijla, Institute of Social and Preventive Medicine
- Perinexin in cardiac intercalated discs are privileged sites for ephaptic coupling: a model study
Ena Ivanovic, Department of Physiology
- Differences in extent of mechano-induced QT-changes in SQTS, WT and LQTS rabbit models
Saranda Nimani, Translational Cardiology, Department of Physiology

16:10-16:20 Break

Session 7: Valvular and Structural Heart Diseases

Chairs:

Yara Banz, Institute of Pathology

Thomas Pilgrim, Department of Cardiology

16:20 Title tba
Fabien Praz, Department of Cardiology

16:40-17:00 Flash presentation from abstracts

- The non-linear relationship between aortic valve opening area and transvalvular flow
Eric Buffle, Department of Cardiology
- Zebrafish model to study autophagy and lysosomal processing in zebrafish cardiovascular development
Myra Chavez, Institute of Anatomy
- A computational and mathematical framework to identify metrics related to leaflet and blood flow motion triggering calcification in bioprosthetic aortic valves
Pascal Corso, ARTORG Centre for Biomedical Engineering Research

17:00-17:30 Break + Poster hanging

17:30-19:00
(on-site: Foyer
Langhans
Auditorium,
Pathology building)

Poster presentations
Prize announcements (Robert Rieben, Department for BioMedical Research)
Closing
Get-together Apéro
