



Cardiovascular Research PhD Specialization: Student Retreat 2023



17 November, 2023
Gurten Park, Bern

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Foreword

Dear Retreat Participants,

It is our great pleasure to welcome you to the first Cardiovascular PhD Student Retreat in Bern 2023!

This Cardiovascular PhD Student Retreat aims to stimulate interaction and foster collaboration among cardiovascular research students of the Cardiovascular PhD Specialization in Bern and also with students from our partner PhD programs from the Universities of Lausanne, Ticino and Munich.

The Cardiovascular Research Cluster Bern (CVRC) has initiated a new PhD specialization program in cardiovascular research this year and presenting students can obtain 0.5 ECTS for the Cardiovascular PhD Student Retreat 2023.

We would like to welcome also some students from our partner universities PhD programs:

- Cardiovascular and Metabolism PhD Program (CVM) of the Faculty of Biology and Medicine (FBM) and the University Hospital (CHUV), University of Lausanne
- Cardiovascular / Human Cardiovascular Sciences PhD Program, Università della Svizzera italiana
- Integrated Research Training Group (IRTG) 1123 on Atherosclerosis PhD Program, Ludwig-Maximilians-Universität & Technical University Munich, Munich, Germany

We are looking forward to a stimulating and motivating meeting.

Sincerely,

Organization Committee of the Cardiovascular PhD Student Retreat 2023

Dr. Maria Arnold, Scientific and Administrative Manager of the Cardiovascular Research Cluster Bern

Ms. Daniela Castillo, Administrative Assistant of the Cardiovascular Research Cluster, PhD Program Administration

Prof. Sarah Longnus, Department of Cardiac Surgery, Cardiovascular Centre and Department for BioMedical Research

Prof. Katja Odening, Translational Cardiology, Department of Cardiology, Cardiovascular Centre and Department of Physiology.

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Accreditation

PhD and MD-PhD students that attend and present a flash presentation are eligible to receive **0.5 ECTS** credits for Cardiovascular PhD Student Retreat. Please register in KSL (root number 487182, with -0 ending).

Acknowledgments

We would like to express our appreciation to the University of Bern for their financial support of the Cardiovascular Research PhD Program in Bern (Förderprogramm “Doktoratsprogramme/Graduate Schools Universität Bern 2021-2024”).

Meeting Program Overview

08:30-09:00	Welcoming Coffee
09:00-10:30	Session 1: Student Flash Presentations Chair: Prof. Dr. Sarah Longnus
10:30-11:00	Coffee Break
11:00-12:30	Session 2: Student Flash Presentations Chair: Prof. Dr. med. Katja Odening
12:30-13:30	Lunch Break
13:30-15:15	Workshop: Practical Aspects of Statistics Dr. Frédéric Schütz, Head of Biostatistics Platform, UNIL
15:15-15:30	Coffee Break
15:30-16:30	Workshop: Practical Aspects of Statistics Dr. Frédéric Schütz, Head of Biostatistics Platform, UNIL
16:30-16:45	Remarks, Award and Closing

Detailed Order of Student Flash Presentations

Session 1

1	Addoriso Andrea: Investigation of the role of AKAP2 in TGF- β secretion in cardiac fibrosis
2	Alerni Nicolò: Electro-mechanical and mechano-electrical interactions in LQT2, WT and SQT1 rabbits
3	Barison Ilaria: Characterization of circulating Extracellular Vesicles-derived miRNAs in cardiac transplanted patients
4	Beer Georgia: Ex-vivo heart perfusion: A new approach to therapies and biomarkers in cardiac transplantation
5	Biemmi Vanessa: Syndecan-Syntenin-Alix complex mediates SRC function in macrophages' small-EV release
6	Clavier Alexia: Perfusate biomarkers of DCD cardiac graft quality identified with proteomics: Studies in an isolated rat heart model
7	Giammarino Lucilla: Sex differences and sex-hormone effects in atrial electrophysiology
8	Graf Selianne: Circulating Factors, Measured Both in the Donor and During Ex-Vivo Heart Perfusion, Correlate with Subsequent Heart Recovery in a Pig Model of DCD

Session 2

1	Küffer Thomas: Posterior wall ablation by pulsed-field ablation - procedural safety, efficacy and findings on redo procedures
2	Nimani Saranda: A novel gene therapy approach in transgenic short-QT syndrome type 1 rabbit models
3	Ottersberg Rahel: Ex-vivo Heart Perfusion enables innovations in cardiac transplantation and precision therapies
4	Rendon Angel Azucena: Transcriptomic Signature of Stress Induced Premature Senescence in Cardiomyocytes
5	Scherler Greta: AKAP2 mediates collagen secretion in cardiac fibrosis
6	Senesi Georgia: Human cardiomyocyte derived extracellular vesicles regulate cardiac fibroblast activation through miR-24
7	Vashanthakumar Varjany: Gene-specific precision therapy in long QT syndromes Type 1 and 2
8	Landi Antonio: Impact of Sex on Comparative Outcomes of Abbreviated or Standard Antiplatelet Therapy in Patients at High Bleeding Risk

List of students (in alphabetical order)

	Name	Affiliation	Title
1	Addorisio Andrea	Department of Biomedical Sciences, University of Lausanne	Investigation of the role of AKAP2 in TGF- β secretion in cardiac fibrosis
2	Alerni Nicolò	Translational Cardiology, Department of Physiology and Department of Cardiology, Bern University Hospital, University of Bern	Electro-mechanical and mechano-electrical interactions in LQT2, WT and SQT1 rabbits
3	Barison Ilaria	Cardiocentro Ticino Institute, Università della Svizzera Italiana	Characterization of circulating Extracellular Vesicles-derived miRNAs in cardiac transplanted patients
4	Beer Georgia	Department of Cardiac Surgery, Bern University Hospital and Department for BioMedical Research, University of Bern	Ex-vivo heart perfusion: A new approach to therapies and biomarkers in cardiac transplantation
5	Biemmi Vanessa	Cardiovascular Theranostics, Cardiocentro Ticino Institute, Università della Svizzera Italiana	Syndecan-Syntenin-Alix complex mediates SRC function in macrophages' small-EV release
6	Clavier Alexia	Department of Cardiac Surgery, Bern University Hospital and Department for BioMedical Research, University of Bern	Perfusate biomarkers of DCD cardiac graft quality identified with proteomics: Studies in an isolated rat heart model
7	Giammarino Lucilla	Translational Cardiology, Department of Physiology and Department of Cardiology, Bern University Hospital, University of Bern	Sex differences and sex-hormone effects in atrial electrophysiology
8	Graf Selianne	Department of Cardiac Surgery, Bern University Hospital and Department for BioMedical Research, University of Bern	Circulating Factors, Measured Both in the Donor and During Ex-Vivo Heart Perfusion, Correlate with Subsequent Heart Recovery in a Pig Model of DCD
9	Küffer Thomas	Department of Cardiology, Inselspital, Bern University Hospital, University of Bern	Posterior wall ablation by pulsed-field ablation - procedural safety, efficacy and findings on redo procedures
10	Landi Antonio	Cardiovascular Theranostics, Cardiocentro Ticino Institute, Università della Svizzera Italiana	Impact of Sex on Comparative Outcomes of Abbreviated or Standard Antiplatelet Therapy in Patients at High Bleeding Risk
11	Nimani Saranda	Translational Cardiology, Department of Physiology and Department of Cardiology, Bern University Hospital, University of Bern	A novel gene therapy approach in transgenic short-QT syndrome type 1 rabbit models

12	Ottersberg Rahel	Department of Cardiac Surgery, Bern University Hospital and Department for BioMedical Research, University of Bern	Ex-vivo Heart Perfusion enables innovations in cardiac transplantation and precision therapies
13	Rendon Angel Azucena	Cardiocentro Ticino Institute, Università della Svizzera Italiana	Transcriptomic Signature of Stress Induced Premature Senescence In Cardiomyocytes
14	Scherler Greta	Department of Biomedical Sciences, University of Lausanne	AKAP2 mediates collagen secretion in cardiac fibrosis
15	Senesi Giorgia	Cardiocentro Ticino Institute, Università della Svizzera Italiana	Human cardiomyocyte derived extracellular vesicles regulate cardiac fibroblast activation through miR-24
16	Vashanthakumar Varjany	Translational Cardiology, Department of Physiology, University of Bern	Gene-specific precision therapy in long QT syndromes Type 1 and 2