

# 6<sup>th</sup> Annual CIBM-CHUV-MR Retreat

Wednesday/Thursday/Friday September 5 – September 7  
2018

## Goals

- Promote unity in our MR research family in a relaxed atmosphere and free of daily commitments.
- Provide a platform for communication among MR sub-specialties to generate new ideas and stimulate new collaborations.
- Critical review of on-going research projects and future directions.
- Tribute to scientific excellence and achievements.
- Dialog and knowledge exchange among basic scientists, clinicians and industry.
- Foster international relations.

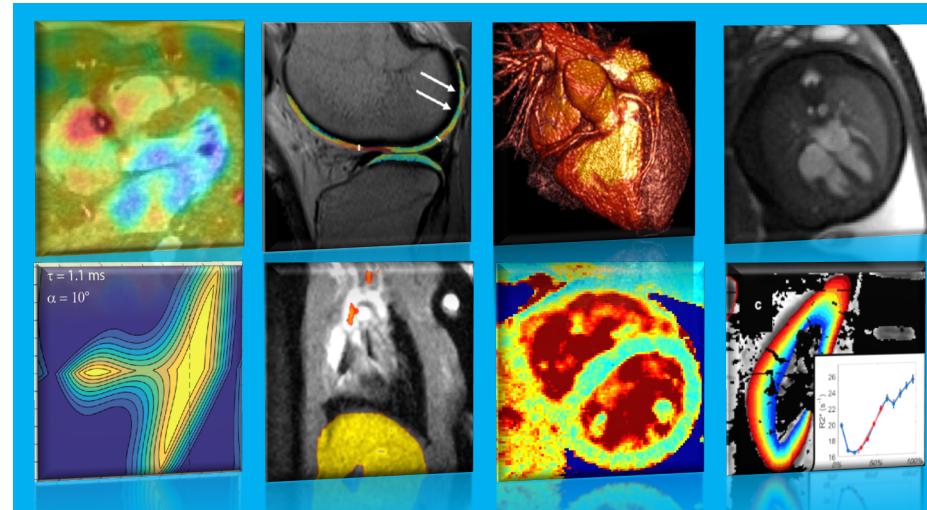


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# RETREAT



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# PROGRAM 2018

## WEDNESDAY

18:00 Arrival of all participants and Welcome at the Bar  
20:00 Dinner

## THURSDAY

8:00	<i>Breakfast</i>	
9:00	Welcome and Introduction	Matthias Stuber
	<b>Session 1: Free, Steady, Low Fat, and Tiny</b>	<b>Chair: René Botnar</b>
9:20	<b>Keynote Lecture: bSSFP - One of the Precious Few Success Stories</b>	Oliver Bieri
9:40	<b>Keynote Lecture: Diagnosing the Heart Before Trouble is Born</b>	Christopher Macgowan
10:00	Fetal Cardiac MRI as a Pre-Schooler at CHUV	Veronica Bianchi
10:10	Low-Fat, High-Gain MRI	Nemanja Masala
10:20	Magnetization Transfer in the Heart - 27 Years After	Giulia Ginami
10:30	Liberating the LIBRE	Jessica Bastiaansen
10:40	<i>Coffee Break</i>	

	<b>Session 2: Putting Oil into Those Learning Machines</b>	<b>Chair: Matthias Stuber</b>
11:10	<b>Keynote Lecture: The Nuts and Bolts of the Machine</b>	Meritxell Bach-Cuadra
11:30	<b>Keynote Lecture: The Role of Machine Learning in Modern Radiology</b>	Patric Hagmann
11:50	Deep-Learning Augmented MR Image Reconstruction	John Heerfordt
12:00	Machine Learning and Big Data from an Industry Perspective	Tobias Kober
12:10	<i>Group Photo and Lunch</i>	

	<b>Session 3: A Hearty Expansion of Dimensionality</b>	<b>Chair: Claudia Prieto</b>
14:00	<b>Keynote Lecture: Multi Spectral MRI of the Heart</b>	René Botnar
14:20	<b>Keynote Lecture: Flowing Through the Fourth Wall</b>	Michael Markl
14:40	Future Concepts in Flow Imaging	Liliana Ma
14:50	Free-Running Multi-Dimensional Imaging	Lorenzo Di Sopra
15:00	Whole Heart Fully Registered at 3T	Jianing Pang
15:45	<i>Meet for Group Activity</i>	
16:00	<i>Group Activity on the Lake</i>	
20:00	<i>Dinner &amp; Awards</i>	

## Thank you to our sponsors:



Service de radiodiagnostic et  
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## FRIDAY

8:00 *Breakfast*

### Session 4: Small Signals and Big Concepts

9:00 **Keynote Lecture: Sending out an SMS**  
9:20 Sounds of Silence - A Pilot Tone at 62.5 MHz  
9:30 Another CT beats MRI story: Contrast  
9:40 The Hyperpolarized Heart  
9:50 Fluorine-19 from Mouse to Man: The Ground Truth of Tiny Inflammation

**Chair: Davide Piccini**

Peter Speier  
Mario Bacher  
Fabio Becce  
Lionel Arn  
Emeline Darçot

### Session 5: Heads, and Shoulders, Knees and Math

10:00 **Keynote Lecture: Three Dimensions at the Lower Ranks**  
10:20 MRI of the Lungs, an Empty Promise?  
10:30 Kidneys, no Kidding!  
10:40 Quantitative MRI of the Brain: It's Moving Too!  
10:50 *Coffee Break*

**Chair: Fabio Becce**

Claudia Prieto  
Jean Delacoste  
Bastien Milani  
Antoine Lutti

### Session 6: More and Less Invasion

11:20 **Keynote Lecture: Make Coronary MRI Great Again : The development of MRI-based coronary Fractional Flow Reserve (FFR)**  
11:40 Balancing the Stars to Predict your Coronary Future  
11:50 Imaging and Arrhythmias: Shoot on Sight!  
12:00 The Need for Interventional MRI from a Cardiologist's Perspective  
12:10 Wrap-Up  
12:30 *Lunch*  
13:30 *Adjournment*

**Chair: Ruud van Heeswijk**

John Oshinski  
Gabriele Bonanno  
Hubert Cochet  
Jürg Schwitter  
Matthias Stuber

## Keynote Speakers:

- Meritxell Bach-Cuadra, PhD**  
Privat Docent, MER, CHUV, Lausanne, Switzerland
- Oliver Bieri, PhD**  
Professor, Universitätsspital Basel, Basel, Switzerland
- René Botnar, PhD**  
Professor, King's College London, London, UK
- Patric Hagmann, MD, PhD**  
Associate Professor, CHUV, Lausanne, Switzerland
- Christopher Macgowan, PhD**  
Associate Professor, University of Toronto, Toronto, Canada
- Michael Markl, PhD**  
Professor, Northwestern University, Chicago, IL, USA
- John Oshinski, PhD**  
Associate Professor, Emory University, Atlanta, GA, USA
- Claudia Prieto, PhD**  
Senior Lecturer, King's College London, London, UK
- Peter Speier, PhD**  
Senior Scientist Siemens Healthineers, Erlangen, Germany