

6th 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.

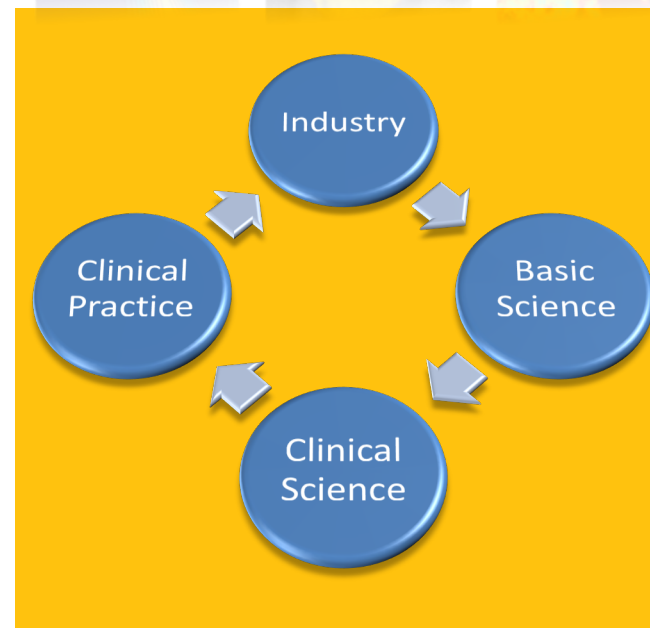
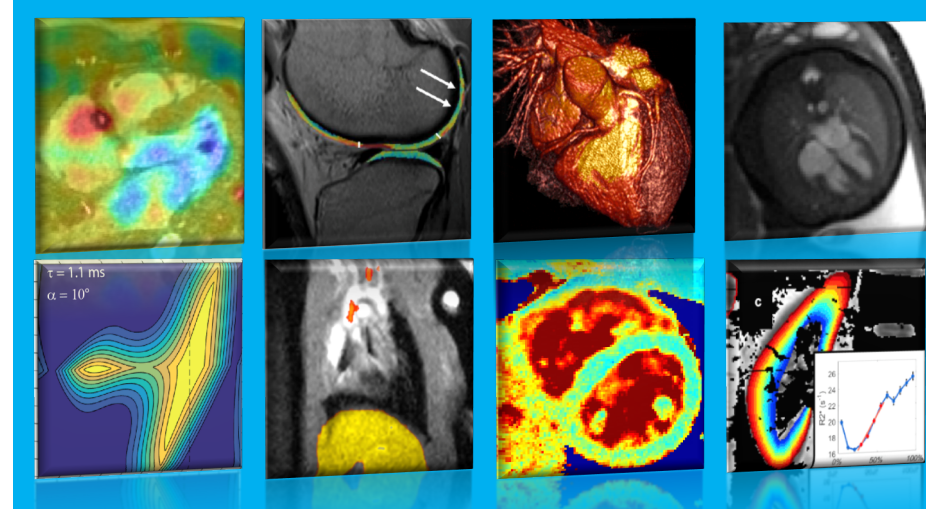


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RETREAT



UNIL | Université de Lausanne

PROGRAM 2018

WEDNESDAY

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

THURSDAY

8:00 *Breakfast*
9:00 *Welcome and Introduction* Matthias Stuber

Session 1: Free, Steady, Low Fat, and Tiny Chair: René Botnar

9:20 **Keynote Lecture: bSSFP - One of the Precious Few Success Stories** Oliver Bieri
9:40 **Keynote Lecture: Diagnosing the Heart Before Trouble is Born** 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 *Coffee Break*

Session 2: Putting Oil Into Those Learning Machines Chair: Matthias Stuber

11:10 **Keynote Lecture: The Nuts and Bolts of the Machine** Meritxell Bach-Cuadra
11:30 **Keynote Lecture: The Role of Machine Learning in Modern Radiology** 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 *Group Photo and Lunch*

Session 3: A Hearty Expansion of Dimensionality Chair: Claudia Prieto

14:00 **Keynote Lecture: Multi Spectral MRI of the Heart** René Botnar
14:20 **Keynote Lecture: Flowing Through the Fourth Wall** 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 *Meet for Group Activity*
16:00 *Group Activity on the Lake*
20:00 *Dinner & Awards*

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Service de radiodiagnostic et
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FRIDAY

8:00 *Breakfast*

Session 4: Small Signals and Big Concepts Chair: Davide Piccini

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

Session 5: Heads, and Shoulders, Knees and Math Chair: Fabio Becce

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

Session 6: More and Less Invasion Chair: Ruud van Heeswijk

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

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