

## QMR LUCCA

Joint workshop on MR phase, magnetic susceptibility and electrical properties mapping

16-19 October 2022, Lucca, Italy

<https://qmrlucca.org/>

Preliminary program v05.23

### Sunday, October 16th 2022 - Educational

Educational Coordinators:

QSM: Ferdinand Schweser, Christian Langkammer, José Marques

EPT: Riccardo Lattanzi, Ulrich Katscher

13:00	Registration
13:30	
14:00	
14:30	<b>Educational Plenary Session 14:30-15:20 (50 min)</b> Short introduction by organizers (5 minutes) Plenary Lecture on QSM & EPT overview (40 minutes), <u>José Marques</u> Q&A (5 minutes)
15:20	Coffee break with Meet The Teacher 15:20-15:45 (25 min)
15:45	<b>Educational QSM Focus Session 15:45-17:10 (85 min)</b> Lecture: QSM technical overview (30 mins), <u>Ferdinand Schweser</u> Q&A (5 minutes) QSM Live Demonstration (20 min), <u>Kwok-Shing Chan</u> Lecture: QSM applications (25 min), <u>Christian Langkammer</u> Q&A (5 minutes)
16:30	
17:10	Coffee break with Meet The Teacher 17:10-17:35 (25 min)
17:35	<b>Educational EPT Focus Session 17:35-19:00 (85 min)</b> "How to Measure Tissue Electrical Properties with MRI" (30 mins), <u>Ulrich Katscher</u> Q&A (5 minutes) EPT Live Demonstration (20 min), <u>Alessandro Arduino</u> "Electrical Conductivity in Normal and Pathological Tissues" (25 min), <u>Khin Khin Tha</u> Q&A and Adjourn (5 minutes)
18:00	
18:30	
19:00	Meet The Teacher + Workshop Opening
20:00	

**Monday, October 17th 2022**

08:00	Registration	
08:30		
08:45	Opening Welcome Notes	
09:00	<b>Opening Keynote Lectures</b>	
09:15	"Multiparametric quantitative MRI in clinical application", <a href="#">Cristina Granziera</a>	
09:30	"EMTP acquisition and reconstruction", <a href="#">Dong-Hyun Kim</a>	
09:45		
10:00	Power Pitches #1	
10:15		
10:30	COFFEE BREAK	
10:45		
11:00		
11:15	<b>Session 1: Acquisition and Reconstruction</b>	
11:30		
11:45		
12:00		
12:15	First Sponsor talk (15')	
12:30	Power Pitches #2	
12:45		
13:00	LUNCH	
13:15		
13:30		
13:45	traditional poster session (1h)	
14:00		
14:15		
14:30		
14:45	<b>Session 2 (split session: QSM)</b>	<b>Session 3 (split session: EPT)</b>
15:00	"Oxygenation, magnetic susceptibility and T2 relaxation in blood", <a href="#">Peter Van Zijl</a>	"CTI and MREIT", <a href="#">Rosalind Sadleir</a>
15:15		
15:30		
15:45	COFFEE BREAK	
16:00		
16:15		
16:30	<b>Session 4 (split session: QSM)</b>	<b>Session 5 (split session: EPT)</b>
16:45	"STI and tissue microstructure", <a href="#">Chunlei Liu</a>	"crEPT, gEPT, DBar, divergence methods",
17:00		<a href="#">Yusuf Ider</a>
17:15		
17:30	Second Sponsor talk (15')	
17:45	<b>Session 6</b>	
18:00	"Mapping Electro-Magnetic Tissue Properties with Ultra-High Field MR", <a href="#">Richard Bowtell</a>	
18:15		
18:30	Closing	

**Tuesday, October 18th 2022**

08:30	Registration
08:45	
09:00	<b>Session 7: Deep Learning</b>
09:15	"Deep Learning and QSM", <u>Jongho Lee</u>
09:30	
09:45	
10:00	Power Pitches #3
10:15	
10:30	COFFEE BREAK, with the compliments of VENTIO
10:45	
11:00	
11:15	<b>Session 8: QSM added value in clinical application</b>
11:30	"Myelin and iron content", <u>Jeff Duyn</u>
11:45	"The added value of QSM in multiple sclerosis", <u>Susan Gauthier</u>
12:00	
12:15	Third Sponsor talk (15')
12:30	Power Pitches #4
12:45	
13:00	LUNCH
13:15	
13:30	
13:45	traditional poster session (1h)
14:00	
14:15	
14:30	
14:45	<b>Session 9: EPT</b>
15:00	"EPT global approaches", <u>Riccardo Lattanzi</u>
15:15	
15:30	
15:45	COFFEE BREAK
16:00	
16:15	
16:30	<b>Session 10: Standardization, Reproducibility, Challenges</b>
16:45	"Quantitative MRI", <u>Xavier Golay</u>
17:00	
17:15	Organizers:
17:30	Simon Robinson, Berkin Bilgic, Karin Shmueli, Yi Wang, Stefano Mandija, Luca Zilberti
17:45	Session speakers:
18:00	Stefano Mandija, Luca Zilberti, Pascal Spincemaille, Carlos Milovic, Ferdinand Schweser
18:15	<b>Round table (with moderators)</b>
18:30	will the next meeting be another Joint Workshop?
18:45	
19:00	
19:15	<b>Steering Committee Meeting</b>
19:30	Discussion & evaluation of proposals for next meeting (year 2024)
19:45	
20:00	Closing Reception

**Wednesday, October 19th 2022**

09:00	<b>Session 11</b> t.b.a.
09:15	
09:30	
09:45	
10:00	
10:00	<b>Awards, announcements, closing</b>
10:15	
10:30	
10:45	<b>Satellite event on MR Fingerprinting</b> <b>open to all the attendees of the workshop</b>  (program t.b.a.)
11:00	
11:15	
11:30	
11:45	
12:00	
12:15	
12:30	
12:45	
12:45	