

MgSAFE Workshop in Gothenburg 1-3 March 2022

Agenda*

Department of Biomaterials, Institute of Clinical Sciences, University of Gothenburg

Tuesday 01-03-2022

09.00-09.45	Welcome and introduction to biomaterials science	<i>Peter Thomsen</i>
09.45-10.30	Inflammation, tissue regeneration & remodeling at tissue-implant interface	<i>Peter Thomsen</i>
10.30-10.45	<i>Coffee</i>	
10.45-11.30	Animal models in bone research	<i>Furqan A. Shah</i>
11.30-12.15	Biomechanics of the bone-implant interface	<i>Anders Palmquist</i>
12.15-13.15	<i>Lunch</i>	
13.15-14.00	Sample fixation and processing for histology	<i>Anders Palmquist</i>
14.00-16.00	Practical sessions	

Wednesday 02-03-2022

09.00-09.45	qPCR: Sample homogenization, RNA extraction, cDNA synthesis and RNA quality analysis	<i>Omar Omar</i>
09.45-10.30	Molecular (qPCR) data analysis, statistics and interpretation	<i>Omar Omar</i>
10.30-10.45	<i>Coffee</i>	
10.45-11.30	Histology and stainings	<i>Furqan A. Shah</i>
11.30-12.15	Ultrastructure of the bone-implant interface	<i>Anders Palmquist</i>
12.15-13.15	<i>Lunch</i>	
13.15-14.00	Raman spectroscopy of mineralized tissues	<i>Furqan A. Shah</i>
14.00-16.00	Practical sessions	
18:00	<i>Dinner</i>	

*Central European Time.

Thursday 03-03-2022

Early Stage Researcher day: "Bridging Science & Entrepreneurship"

*Preliminary agenda**

08:50-09:40	<i>(Title to be determined)</i> Prof. Ling Qin & Dr Jerry Xu (The Chinese University of Hong Kong) - online
09:40-09:50	<i>Coffee</i>
09:50-10:20	Nanoscale analysis of the bone response to Magnesium implants Dr. Tilman A. Grünewald (Institut Fresnel Marseille) - online
10:20-10:30	<i>Coffee</i>
10:30-11:20	Entrepreneurship in Bioengineering after a PhD Prof. Emmanuel Stratakis (Foundation for Research and Technology Hellas) - onsite
11:20-11:30	<i>Coffee</i>
11:30-12:30	Additive manufacturing of Magnesium implants Dr. Francesco D'Elia (Uppsala University) - online Nicole Kleger (ETH Zurich) - online
12:30-13:30	<i>Lunch</i>
13:30-14:20	Clinical Perspectives from Magnesium implant applications Dr. Kristin Forßman (Syntellix) - onsite
14:20-14:30	<i>Coffee</i>
14:30-15:20	Regulatory affairs in the medical device industry Claudia Pieh (Syntellix) - onsite
15:20-15:30	<i>Coffee</i>
15:30-16.20	Cellular and molecular response of bone to Magnesium implants Prof. Charles Sfeir (University of Pittsburgh) - online

*Central European Time.