

Annual meeting of the *Swiss Society for Biomaterials and Regenerative Medicine SSB+RM* at the FHNW campus in Muttenz, Switzerland

Time	Wednesday, May 22 <sup>nd</sup>	Thursday, May 23 <sup>rd</sup>
8.00 h		Registration
8.15 h		
8.30 h		<b>Session III: Tissue Engineering &amp; Engraftment</b> Keynote Speaker: <b>Dr. Joëlle Amédée-Vilamitjana</b> (Université de Bordeaux, France), <i>Vascularisation and innervation in regenerative medicine</i> Chairperson: <b>A. Scherberich, E. Kurisinkal</b>
8.45 h		<b>L. Gili Sole:</b> Human cell-based engineered tissues induce angiogenesis in healthy rat hearts
9.00 h		<b>G. Born:</b> Engineering clinical-grade $\beta$ -cell tissues for diabetes treatment
9.15 h		<b>Q. Vallmajo-Martin:</b> Stiff synthetic modular hydrogels foster functional expansion of human hematopoietic stem and progenitor cells
9.30 h	<p><b>SSB + RM Young Scientists pre-conference workshop</b></p> <p>Dedicated workshop for the Young Scientists of the SSB+RM as a pre-meeting event.</p> <p><b>Daniel Seiler</b> will lead this workshop entitled  <i>"Patient-specific implants produced by additive manufacturing"</i>                      including hands-on practice and a tour through the implant manufacturing labs.</p>	Coffee, <b>Poster session II</b>
9.45 h		
10.00 h		
10.15 h		
10.30 h		
10.45 h		
11.00 h		<b>Session IV: Biofabrication</b> Keynote Speaker: <b>Dr. Maurizio Gullo</b> (FHNW, Institute for Medical Engineering and Medical Informatics IM <sup>2</sup> , Muttenz, Switzerland), <i>Challenges in 3D biofabrication - From organs on chip towards organ replacement</i> Chairperson: <b>M. Zenobi-Wong, L. Power</b>
11.15 h		<b>T. Serra:</b> Spatially orchestrated micro-vessels networks via acoustic waves cell patterning
11.30 h		<b>I. Berg:</b> Enzymatically cross-linked cationic arginine-chitosan hydrogels for cartilage tissue engineering
11.45 h		<b>P. Fisch:</b> Bioprinting of osteochondral grafts
12.00 h	Registration & poster installation	<b>General assembly of the SSB + RM</b>
12.15 h		
12.30 h	Welcome from SSB + RM	<b>Poster session III and standing lunch</b>
12.45 h	Welcome from HLS-director <b>Prof. Dr. F. Schlottig</b>	
13.00 h	<b>Session I: Biodegradable Metals</b> Keynote Speakers: <b>Prof. Dr. Regine Willumeit-Römer</b> (Helmholtz-Zentrum Geesthacht, Germany), <i>The interplay between biodegradable Mg implants and cells and tissues</i> Chairperson: <b>M. de Wild, F. Dalcanale</b>	
13.15 h		<b>Session V: Bone Substitutes</b> Chairperson: <b>M. D'Este, Q. Vallmajó</b>
13.30 h		<b>Y. Maazouz:</b> The effect of confinement of $\beta$ -tricalcium phosphate granules immersed in SBF on local solution changes
13.45 h	<b>H. Hornberger:</b> Galvanic corrosion of magnesium materials	<b>B. Le Gars Santoni:</b> Osteoclastic resorption of pure beta-tricalcium phosphate dense ceramics
14.00 h	<b>T. Imwinkelried:</b> Fixation of a mandible osteotomy with magnesium implants: Does transferability to humans depend on the miniature pig breed?	<b>L. Berger:</b> Magnesium-based bone scaffolds fabricated by laser powder bed fusion: Microstructure analysis and surface coatings for degradation protection
14.15 h	<b>Rapid fire posters and industry presentations</b>	<b>Research Award</b>
14.30 h		
14.45 h		<b>Keynote Speaker: Dr. Thomas Hefti and Mrs. Philine Baumann-Zumstein</b> (Biotronik AG, Vascular Interventions, Bülach, Switzerland), <i>Resorbable magnesium scaffolds for coronary vascular intervention; From bench to clinics</i>
15.00 h	Coffee, <b>Poster session I</b>	<b>Presentation of oral and poster awards</b>
15.15 h		
15.30 h		
15.45 h	<b>Session II: Clinical Challenges</b> Keynote Speaker: <b>Prof. Dr. Leonard Charles Marais</b> (Orthopedic Surgery, University Kwazulu-Natal, Durban, South Africa), <i>Reconstruction of bone defect</i> Chairperson: <b>M. Morgenstern, S. Rotman</b>	Concluding remarks
16.00 h		
16.15 h	<b>L. Kind:</b> Synthetic composite matrix for dental bone regeneration	End of the meeting
16.30 h	<b>L. Power:</b> Raman spectroscopy-based quality controls for tissue engineered cartilage	
16.45 h	<b>A.G. Guex:</b> Biodegradable, cytocompatible, antibacterial: Electrospun wound dressings of Ga-PPIX-functionalised P4HB	
17.00 h	Keynote Speaker: <b>Prof. Dr. Martin A. McNally</b> (University of Oxford, UK, President of the European Bone and Joint Infection Society), <i>Biodegradable antibiotic carriers in prevention and treatment of bone and joint infections</i>	
17.15 h		
17.30 h	Closing remarks	
17.45 h	Transfer by public transport	
18.00 h		
18.15 h		
19.15 h	<b>Welcome drink &amp; conference dinner at restaurant WERK 8</b>	