

**Uppsala Biomaterials Meeting**  
 21 November 2016, Uppsala, Sweden  
 Venue: BMC room B/B7:113a

**Program**

8:30 – 9:00	<i>Set up of posters, at BMC by entrance A7/A8</i>
9:00 – 9:10	Welcome – Cecilia Persson
<i>Session 1 – Chair Prof. Nils Hailer Co-chair Gry Hulsart Billström</i>	
9:10 – 9:40	Keynote 1: “New frontiers in orthopaedics” Nils Hailer, Uppsala University Hospital
9:40 – 10:10	Keynote 2: “How can we help you?” Ram Kumar Selvaraju, Preclinical PET/MRI Platform
10:10-10:25	Pres 1: “Evaluation of ceramic scaffolds via $\mu$ CT -method validation using SEM” Susanne Lewin, MiM
10:25 – 10:45	<i>Coffee &amp; fruit break &amp; poster* mingle (poster presenters to stand by their posters)</i>
<i>Session 2 – Chair Prof. Håkan Engqvist Co-Chair Caroline Öhman</i>	
10:45 – 11:15	Keynote 3: “Research leading to commercial use of biomaterials” – Håkan Engqvist Applied Materials Science
11:15 - 11:30	Pres 2: “Free directional printing of biopolymer hydrogel based on dynamic metal ion-chelating ligand coordination bonds” - Liyang Shi, PC
11:30 – 11:45	Pres 3: “Nanocellulose hydrogels for topical wound care applications”, Alex Basu, NFM
11:45 – 12:00	Pres 4: "Transparent ZrO <sub>2</sub> /SiO <sub>2</sub> glass ceramic prepared by spark plasma sintering for dental applications" - Le Fu, MiM
12:00 – 13:00	<i>Lunch (baguette) &amp; poster* evaluations (poster presenters to stand by their posters, hand in of poster votes)</i>
<i>Session 3 – Chair Prof. Jöns Hilborn Co-Chair Sara Gallinetti</i>	
13:00 – 13:30	Keynote 4: “Designing biomaterials and bioactive molecules for bone regeneration” – Jöns Hilborn Polymer Chemistry
13:30 – 13:45	Pres 5: "Ready-to-use bone cements with unlimited working time", Jun Luo, MiM
13:45 – 14:00	Pres 6: “Biomaterial based nucleic acid transfection” - Sandeep Kadekar, PC
14:00 – 14:15	Pres 7: “Synthesis of amorphous magnesium carbonate nanoparticles and their capability to stabilize Ibuprofen”, Jiaojiao Yang NFM
14:15 – 14:45	<i>Coffee &amp; cake break (voting on student presentations &amp; count of poster votes)</i>
<i>Session 4 – Chair Assoc. Prof. Cecilia Persson, Co-Chair Gözde Kilig</i>	
14:45 – 15:15	Keynote 5: BIOVIS Dr. Dirk Pacholsky
15:15-15:45	Rapid fire poster: 3 min pres. + 3 min questions / poster + 10 min voting: 1. "Orthopedic screw pull-out strength: Do stronger cements actually improve screw fixation?", Michael Palmer, MiM 2. “Hyaluronic acid hydrogels for bone application”, Hongji Yan, PC 3. "Elastic properties of single trabeculae", Dan Wu, MiM Voting on rapid fire posters
15:45 – 16:00	Feedback questionnaire (and count of rapid fire votes)
16:00 – 16:15	Announcement of winners and closing remarks
17.15 –	Social Event (Buffé, at Ångström)

## **\*Posters**

1. "Modification of titanium surfaces to enhance bacteriostatic properties", Oscar Janson, MiM
2. "Mechanical testing in  $\mu$ CT and synchrotron scanners for an increased understanding of the role of bone microstructure on fracture processes and in fracture treatments", Thomas Joffre, MiM and AM
3. " Photopatterning of hyaluronic acid hydrogels for cell culture scaffolds", Ana María Porras, MST
4. "Tissue photo-bonding using biopolymer crosslinked with rose bengal", Justina Pupkaite, PC
5. "The effect of two fatty acids on the antibacterial properties of calcium phosphate cements", Céline Robo, MiM
6. "Spatial and Chemical Patterning of Hyaluronic Acid using UV-lithography", Frida Sjögren, MST
7. "Combinatorial sputtering of Si-Fe-C-N coatings for joint implants", Charlotte Skjöldebrand, MiM

## **Participating groups:**

- Dept. of Engineering Sciences:
  - Materials in Medicine group, Div. of Applied Materials Science (MiM)
  - Div. of Nanotechnology and Functional Materials (NFM)
  - Div. of Applied Mechanics (AM)
  - Div. of Microsystems Technology (MST)
- Dept. of Chemistry:
  - Div. of Polymer Chemistry (PC)
- Dept. of Surgical Sciences (Uppsala University Hospital):
  - Div. of Orthopedics (OP)
  - Div. of Oral and Maxillofacial Surgery (OMS)