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18th Annual Meeting Swiss Society for Biomaterials Program



«Biomaterials in Orthopaedic Surgery:
From Bench to Bedside and Back»
Thursday, May 3, 2012

SSB Swiss Society for Biomaterials
Société Suisse des Biomatériaux
Schweizerische Gesellschaft für Biomaterialien
Società Svizzera Biomateriali

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Scope of the Meeting

The SSB meetings are devoted to all aspects of biomaterials such as designing, preparation, characterisation, quality control and application. Emphasis is placed not only on the basic research but also on engineering. The meetings are open to all who are interested in the scientific, technology and medical aspects of biomaterials and are primarily target graduate students, scientists, medical doctors, dentists and engineers involved in metal, ceramic, polymer or other biomaterials.

2012 Theme

The talks for 2012 revolve around the theme «Biomaterials in Orthopaedic Surgery: From Bench to Bedside and Back». The invited speakers are, therefore, both researchers and also clinicians using biomaterials in their daily work.

Conference Fee

The fee includes the attendance of the meeting, the proceedings booklet, coffee and lunch breaks. No fee will be charged for graduate students with accepted papers (presentation or first author on poster). Early Registration before April 1st, 2012

Information/Registration

Via SSB homepage <http://ssb.biomaterials.ch/>

Venue

Auditorium Balgrist University Hospital, Forchstrasse 340, 8008 Zurich (see last page for directions).

Credits/Hours

Swiss Society of Orthopaedic Surgery & Traumatology (SGOT): 5 credits
Swiss Dental Association (SSO): 4.5 hours
Swiss Surgical Society (SGC): 4 SGC/CME credits

Scientific Committee

Marc Bohner	Head of the Skeletal Substitutes Group RMS Foundation, Bettlach, Switzerland
Katharina Maniura	Materials-Biology Interactions EMPA, St. Gallen, Switzerland
Dominique Rothenfluh	The Centre for Spinal Studies and Surgery Nottingham, UK
Jess Snedeker	Professor of Orthopedic Biomechanics University and ETH Zurich Balgrist University Hospital, Zurich, Switzerland

Invited Speakers

Frank Witte	Director of Biomaterial Research Laboratory for Biomechanics and Biomaterials Hannover Medical School, Germany
Andreas Schweizer	Deputy Team Leader, Hand Surgery Balgrist University Hospital, Zurich
Paul Heini	Orthopaedic Spine Surgeon Klinik Sonnenhof, Bern

Sponsors

We thank our sponsors for supporting this event:



Program

- 0830 Registration / Welcome Coffee
0915 **C. Pfirrmann:** Welcome to Balgrist University Hospital
0920 **M. Bohner:** Opening Address
0925 **D. Rothenfluh:** Introduction
0930 **F. Witte**
Guest Lecture: «Biodegradable Metals as Temporary Implants:
Historically from Bedside to Bench and Back»

Session 1 - From Bench to Bedside

- 1000 **A. Khoushabi et al (Lausanne)**
«Epiphyseal chondro-progenitors exhibit spontaneous chondrogenesis in photoencapsulating polyethylene glycol dimethacrylate hydrogels»
- 1015 **M. D'Este et al (Davos)**
«A new single step synthesis for thermoresponsive hyaluronan hydrogels»
- 1030 **D. Studer et al (St. Gallen/Zurich)**
«Proliferation as an indicator for the chondrogenic potential of mesenchymal stromal cells in 3D pellet culture»
- 1045 Coffee break
- 1115 **A. Schweizer (Zurich)**
Guest lecture: «Application of rapid prototyping in complex corrective osteotomies»
- 1145 General Assembly of the SSB
- 1245 Poster Session and Buffet Lunch
- 1415 **P. Heini (Bern):** Guest Lecture: «Biomaterials in spinal fusion»

Session 2 - From Bedside to Bench

- 1445 **P. Lezuo et al (Davos)**
«Degradation of fibrin gels during monoculture of human MSC's»
- 1500 **Y. Loosli et al (Zurich/Bettlach/Lausanne)**
«A maturation thresholding process regulates cell adhesion at the distal lamellum»
- 1515 **L. Galea et al (Bettlach/Zurich/Dubendorf)**
«Resorbable ceramic platelets for reinforcement of bone substitutes»
- 1530 **R. Lerf et al (Bettlach/Winterthur)**
«Vitamin E stabilised, cross-linked UHMWPE: leaching out of vitamin E?»
- 1545 **C. Sfeir et al (Pittsburgh (USA))**
«Novel resorbable calcium phosphate putty for bone tissue engineering»
- 1600 **L.S. Karlfeld-Sulzer et al (Zurich)**
«Covalent conjugation of bone morphogenetic protein-2 in fibrin hydrogels with cell-determined release for intervertebral disc regeneration»
- 1615 **C. Sfeir, P. Heini, F. Witte, A. Schweizer**
Podium: Surgeon Meets Scientist and Vice Versa
- 1645 **D. Rothenfluh:** Concluding Remarks
- 1650 Student Prizes and Farewell Cocktail
End of meeting

How to get to Balgrist University Hospital

We recommend to use public transport:

- From Zurich main station via Stadelhofen train station: Tram # 11 direction «Rehalp» to stop «Balgrist» (travel time from Zurich main station: approx. 20 minutes).
- From Stadelhofen train station: tram # 11 direction «Rehalp» or «Forchbahn» (= S18) to stop «Balgrist» (travel time approx. 10 minutes).

By car:

Take direction «Zürich City» and «See», from «Bellevue» drive direction «Rüti/Forch».

There is limited parking available at Balgrist University Hospital charged by the hour.

