

## Programme May 8<sup>th</sup>, 2008

- 08.30 – 09.00 Welcome and registration of the participants
- 09.00 – 09.15 **Opening address:** Geoff Richards, SSB President  
**Welcome:** Bert Müller and A.U. Dan Daniels
- 09.15 – 09.45 **Invited lecture:** Malgorzata Lewandowska-Szumiel (Warsaw, Poland):  
*Mechanics of material/cell/tissue interactions in vitro*
- 09.45 – 10.35 **Session 1:** Chairman B. Müller
- A.-K. Born et al. (St. Gallen)  
*Cellular mechanosensing: Analysis of molecular interactions between fluorescently-tagged focal adhesion proteins talin and vinculin*
  - E. Thomasson et al. (Zürich)  
*Stretch-induced cell sheet alignment*
  - A. Bruinink et al. (St. Gallen)  
*Effect of ridges on spinal cord neuron growth*
  - D. Gourdon et al. (Zürich)  
*Fibronectin unfolding plays a major role in fibrils formation and anastellin binding*
- 10.35 – 11.05 Coffee break
- 11.05 – 11.55 **Session 2:** Chairman A.U. Daniels
- M. Benoit et al. (Lausanne)  
*Experimental characterization of pressure wave generation and propagation in biological tissues*
  - H. Ardura-Garcia (Basel)  
*Dual-mode dynamic functional stiffness of articular cartilage*
  - D. Mohn et al. (Zürich)  
*Nano- versus micron-sized bioactive glass reinforcement of P(3HB) - Are nano-fillers the way forward?*
  - U. von Ah (Basel)  
*Effects of silver nitrate and a silver nanoparticle biomaterial additive on E. coli growth, determined by isothermal micro-nano calorimetry*
- 12.00 – 12.50 **General Assembly of the SSB**
- 13.00 – 14.30 **Poster session** and Buffet lunch
- 14.35 – 16.00 **Session 3:** Chairman A. Zumbühl
- C. Sinescu (Timisoara, Romania)  
*Optical coherence tomography: Applications in dentistry*
  - S. Schweizer (Basel)  
*Polyelectrolyte multilayers on Nitinol*
  - G. Guibert (La Chaux-de-Fonds)  
*Control of human osteoblast adhesion on polymers after ion beam irradiation*
  - F. Weber (Zürich)  
*A bioactive biodegradable guided bone regeneration membrane: From the bench to dental practice*

S. Madduri (Zürich)

*Neurotrophic factors released from nerve conduits for peripheral axonal regeneration*

T. Waltimo (Basel)

*Fine-tuning of bioactive glass for root canal disinfection*

M. Nolff (Hannover, Germany)

*Comparison of computed tomography and microradiography for  $\beta$ -TCP graft evaluation after mandibular reconstruction*

16.15 – 16.30 Gilberto Bestetti:

***Swiss Medtech Landscape and the CTI Medtech***

16.30 – 17.00 **Invited lecture:** Ivan Martin (Basel)

*Bioreactor-based tissue engineering strategies*

17.00 – 17.30 **Student Prizes and Farewell Apéro** sponsored by  
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