Laura Bassi Centre – BRIC
Leiterin: Assoz. Prof. PD Dr. Annelie Weinberg

**Agenda Biodegradable Magnesium Workshop**
Turracher Höhe 08.03. - 13.03. 2015

**Sunday, 08.03.2015**
16:00 – 18:00: Arrival and opening Prof. PD Dr. Weinberg

**Monday, 09.03.2015**

**Session 1** - 09:00 – 11:00  **Materials Science**
Martina Cihova  Effect of chemical polishing on the degradation behaviour of XHP Magnesium
Joelle Hofstetter  Development of high-strength low-alloy (HSLA) magnesium alloys
Lucas Jauer  Selective Laser Melting of Magnesium Alloys
Gabor Szakacs  Solidification studies of Mg-Gd-Y system

**Session 2 Part 1** - 11:00 – 12:00  **Materials Treatment**
David Haffner  Magnetron Sputtering of Magnesium alloys
Inigo Marco  In vitro degradation of Mg, Mg-Gd and Mg-Ag alloys in PBS, HBSS and DMEM

**Skiing Session** - 12:00 – 15:00

**Session 2 Part 2** - 15:00 – 16:30  **Materials Treatment**
Frantisek Lukac  Aspects of microstructure of alloys
Marian Vlcek  Heat treatment of Mg-Y-based alloys with addition of Ca or Ag
Fernando Warchomicka  Surface modification of biocompatible materials

**Discussion** - 16:30 – 19:00

**20:00 – 22:00:** Welcome Dinner and Networking
Tuesday, 10.03.2015

**Session 3** - 08:30 – 12:00  **Invivo Testing, Clinical Approach**

- Olga Charyeva: Magnesium implants in vitro and in vivo
- Johannes Eichler: Latest results of XHP implants in big animal model
- Silvia Galli: Interaction of 3 magnesium alloys and bone: an in vivo investigation
- Elisabeth Martinelli: XHP alloys in invivo investigations
- Anastasia Myrissa: Biocompatibility analysis of different resorbable Mg alloys in a rat model

**Skiing Session** - 12:00 – 15:00

**Discussion** - 15:00 – 16:30

**Session 4 Part 1** - 16:30 – 18:30  **Invitro Testing, Biocompatibility**

- Nezha Ahmad Agha: Magnesium degradation under physiological conditions
- Ehsan Bonyadi Rad: Investigating the Role of IL-33/ST2 Signaling Pathway in the Growth Plate Chondrocytes.
- Maria Constantino: Inflammatory reaction on biodegradable Mg alloys.
- Francesca Cecchinato: Short-term cellular response to magnesium titania coating and magnesium alloys for oral and orthopaedic applications

20:00 – 22:00  **Dinner and Networking**

Wednesday, 11.03.2015

**Session 4 Part 2** - 09:00 – 12:00  **Invitro Testing, Biocompatibility**

- Claudia Kleinhaus: 3D models of skin
- Adela Martinez: Effects of Mg and Mg alloys extracts on ATDC5 chondrocytes
- Sepideh Mostofi: Effect of direct cell culture on gene Expression Profile
- Sriveena Srinivasah: An ex vivo organotypic culture model of femoral bone

**Skiing Session** - 12:00 – 15:00
Session 5 - 15:00 – 17:00  Physical Ex vivo Sample Evaluation

Leopold Berger  
Biomechanical aspects of osteosynthesis using magnesium-based implants

Martin Meischel  
Bone-characterization around Implant by Micro hardness

Maryam Omidi  
Investigation of impact of magnesium on protein composition in cultured osteoblast and bone tissue sections by label free quantification (LFQ)

Yiyi Lu  
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Discussion - 17:00 – 19:00  Open Discussion  
Possible future grants and projects

20:00 – 22:00  Dinner and Networking

Thursday, 12.03.2014

Workshop 09:00 – 18:00  Conformity Evaluation  
Of bioresorbable Implants

20:00 – 22:00  Dinner and Networking

Friday, 13.03.2014

Workshop 09:00 – 12:00  Conformity Evaluation  
Of bioresorbable Implants

Departure 12:00