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FRIEDRICH-ALEXANDER  
UNIVERSITÄT  
ERLANGEN-NÜRNBERG  
TECHNISCHE FAKULTÄT



**Biomaterials**  
Erlangen



## 1<sup>st</sup> Scientific Seminar of the “North-Bavarian Biomaterials Alliance (NBBA)”

17th January 2012, Seminar Room H3, Egerlandstr. 3, 91058 Erlangen, Germany

### Introduction

16.00 h Prof. Aldo R. Boccaccini (Biomaterials, Erlangen)

### Scientific presentations

#### Bayreuth section

16.05 h Kai-Uwe Claußen (Macromolekulare Chemie I)  
"A straightforward preparation of macroscopic polymer gradient materials"

16.25 h Daria Andreeva (Physikalische Chemie II)  
"Cavitation engineered 3-D sponge networks and their application in active surface construction".

#### Würzburg section

16.45 h Karl-Heinz Heffels (Department for Functional Materials in Medicine and Dentistry)  
"An easy route to biofunctional electrospun fibers: Reactive macromolecular additives for electrospinning: from basic examinations to clinically relevant applications"

17.05 h Jenny Weymüller (Tissue Engineering and Regenerative Medicine)  
"Engineering of meniscus replacement tissue"

#### Erlangen section

17.25h Christian Weis (Biophysics Group)  
"Migration and proliferation of labeled cells in tissue observed with magnetic resonance imaging"

17.45 h Biancamaria Beck (HNO-Klinik, Sektion für Experimentelle Onkologie und Nanomedizin)  
"Distribution of magnetic nanoparticles in an artery flow model in dependence to magnetic field strength and particles size"

18.05 h General discussion and conclusions

18.30 h Social hour

19.00 h End