

Workshop Agenda, **Wednesday 26. November 2014**

Time	Title of talk	Presenter
13:00 Vorstellungsrunde		
13:10 – 13:50	Metal doped calcium titanate for biomedical applications	Rico Schnierer
13:50 - 14:30	Optimization of culture conditions for the growth of bone cells with parallel stimulation	Anne-Marie Galow
14:30 - 15:10	Analysis of the electrical signal-electrode-coupling - First Results	Denise Franz
15:10 - 15:30	Coffee & Snack	
15:30 – 16:10	Evaluation of Cell-Electrode-Adjacency-Reconstruction for Real Networks	Sebastian Hanisch
16:10 - 16:30	In vitro study of the initial adhesion of primary neuronal mouse cells on different surfaces	Phillip Wysotzki
16:30 – 17:10	Numerical characterization of the bone regeneration process based on piezoelectric properties	Seyed Hosseini
17:10 – 17:30	Coffee	
17:30 – 18:10	Cell interaction with micro-pillared surfaces	Caroline Mörke
18:10 – 18:50	Spatiotemporal Modelling of Bone Tissue	Tom Theile
19:30	Discussion - Round Table - Open End	

Internationales Begegnungszentrum der Universität Rostock, Bergstraße 2

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Time	Title of talk	Presenter
9:30 – 10:10	Electrostimulation of osteoblasts in vitro and in vivo (rabbit model)	Josefin Ziebart
10:10 – 10:50	Electrical stimulation of bacteria: preliminary experiments and experimental set-up	Thomas Dauben
10:50 – 11:10	Coffee	
11:10 – 11:50	Modeling of bone cells migration toward implants surface	Bachir Delenda
3-5 Minute	Numerical simulation of bone growth on metallic implants	Duy Truong
11:50 – 12:30	AP propagation through SGN in the cochlea	Kiran Sriperumbudur
12:30 – 13:30	Lunch	
13:30 – 14:10	Functional and morphological long-term effects of deep brain stimulation with two electrode modifications and characterization of the electrode-tissue interface in the rat model of Parkinson's disease	Kathrin Badstübner
3-5 Minute	Numerical simulation of therapeutic effects of deep brain stimulation in an animal model -the first approach	Andrea Böhme
14:10 – 14:50	Implementation of sensors and actuators for the characterization of bone cells on artificial surfaces	Sebastian Bonk
14:50 - 15:10	Coffee	
15:10 – 15:50	Electro-stimulating Implants for Bone Regeneration: Parameter Analysis and Design Optimization	Yukun Su
16:00	End of Workshop	

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