

Location

To be announced

Moderation

Denitsa Docheva

Presenters

Francisca Alagboso (Regensburg)

Volker Alt (Regensburg)

Manuel Delgado-Cáceres (Regensburg)

Denitsa Docheva (Regensburg)

Tomáš Kovářík (Pilsen, Czech Republic)

Tomáš Křenek (Pilsen, Czech Republic)

Theresia Stich (Regensburg)

Johannes Zellner (Regensburg)



**Europäische Union
Evropská unie**

Europäischer Fonds für
regionale Entwicklung
Evropský fond pro
regionální rozvoj



Ziel ETZ | Cíl EÚS

Freistaat Bayern –
Tschechische Republik
Česká republika –
Svobodný stát Bavorsko
2014 – 2020 (INTERREG V)

2nd MATEGRA workshop

*“Enhanced porous biomaterials functionalized
with stem cells for an improved
osteointegration of implants”*

22.11.2019

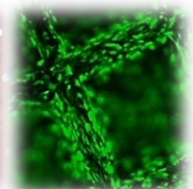
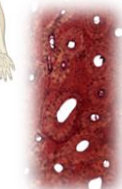
Regensburg

Host:

Prof. Denitsa Docheva

Laboratory of Experimental Trauma Surgery

Department of Trauma Surgery



Friday, 22.11.2019

– Lectures –



- 10:00** **Welcome** (Docheva, Alt)
- 10:10 **Zellner Johannes**
Bone physiology and arthroplastic procedure
- 10:20 **Alt Volker**
Hip and knee endoprotheses and complications: early/late implant loosening and infections
- 10:30 **Docheva Denitsa, Delgado Cáceres Manuel**
Stem & progenitor cells: definition, types, sources and control
- 10:50 **Coffee break**
- 11:10 **Stich Theresia**
Cell-material-interactions and update on MATEGRA
- 11:20 **Krenek Tomas, Kovarik Tomas**
Biomaterials
- 11:50 **Alagboso Francisca**
Pre-clinical in-vivo models for bone implant testing
- 12:00 – 13:00** **Lunch break**

Friday, 22.11.2019

– Practical part –



- 13:15** **Practical demonstrations in the laboratory**
- Cell trypsinization
 - Cell counting
 - Cell plating
 - Staining of cells on structured titanium scaffolds
 - Fluorescence imaging
- 15:30** **Demonstration of the implantation process of a hip/knee joint prosthesis**
(Fa. Zimmer)
- 16:30** **End of workshop**
- 16:45** **Internal MATEGRA project meeting**



Europäische Union
Evropská unie
Europäischer Fonds für
regionale Entwicklung
Evropský fond pro
regionální rozvoj



Ziel ETZ | Cíl EÚS
Freistaat Bayern –
Tschechische Republik
Česká republika –
Svobodný stát Bavorsko
2014 – 2020 (INTERREG V)