



OSTEOMET

Innovative surfaces and regeneration of musculoskeletal tissues



Universitätsklinikum
Regensburg



NEW TECHNOLOGIES
RESEARCH CENTRE
UNIVERSITY
OF WEST BOHEMIA



**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)

30.3.2023 - 9:00

Program

09:00



Coming and registration

09:30



Opening remarks

T. Křenek & D. Docheva

Using Magnetic Instructive Tools in Tendon Tissue Engineering Strategies

10:00



Ana Gonçalves

3B's Research Group
University of Minho, Portugal

Unleashing the Potential of Direct Laser Interference Patterning: Enhancing Biocompatibility of Implant Materials through Small-Scale Structures

10:30



Christoph Zwahr

Gruppenleiter Direkte Laserinterferenzstrukturierung
Fraunhofer-Institut für Werkstoff- und Strahltechnik IWS, Dresden

11:00



Coffee break

Complex responses of diverse cells towards novel laser textured titanium prototypes

11:15



Theresia Stich & Girish Pattappa

Clinic and Policlinic for Trauma Surgery
UKR, Regensburg

Advanced bioactive nano-micro structured Ti surfaces functionalized by colloidal nanoparticles of bone growth stimulants via laser ablation in liquid

11:40



Tomáš Křenek

Chemical Processes and Biomaterials
WBU/NTC, Pilsen

12:20



Lunch break

13:20



Laboratory tour

Multicomponent Hydrogels: Smart Materials for Biomedical Applications

14:40

Jagan Mohan Dodda



Chemical Processes and Biomaterials
WBU/NTC, Pilsen

Micromorphology and microanalysis of dental materials and hard tissues

15:10

Konstantin Scholz & Fabian Cieplik



Department of Conservative Dentistry and Periodontology
UKR, Regensburg

15:40



Coffee break

MicroCT imaging of bio- and advanced materials

15:55

Miloš Svoboda



Engineering of Electrochemical Process
WBU/NTC, Pilsen

Virtual human twin in healthcare

16:10

Vít Nováček



Biomechanical human body models
WBU/NTC, Pilsen

16:25



Closing remarks