



Innovative surfaces and *Symposium* 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
Freistaat Bayern –
Tschechische Republik
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