Europäische Union
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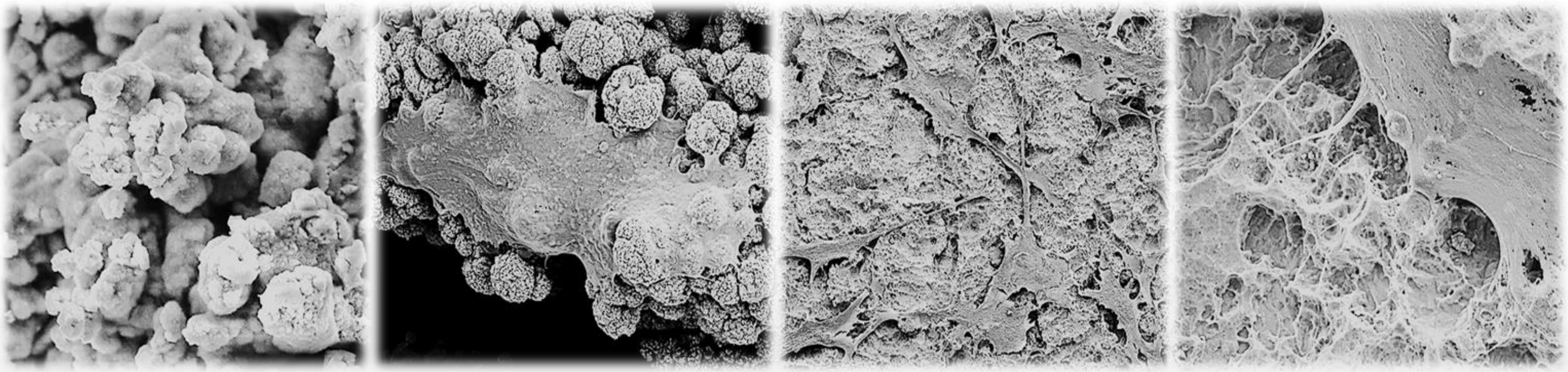
Virtual Symposium

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



Advancing the interface: biomaterials & regenerative cells

11th November 2021
09:30 am – 04:30 pm CET

Hosts: *Prof. Denitsa Docheva & Assoc. Prof. Tomáš Křenek*

Keynote speakers

Molly Stevens
Dep. of Materials & Bioengineering
Imperial College London

Fintan Moriarty
AO Research Institute Davos

Zdeňka Kolská
J.E. Purkyne University
Usti nad Labem

Michael Maas
University Bremen

Main topics

- **novel biomaterials**
- **biomaterial functionalization**
- **biomedical engineering**
- **biomaterial-guided cell fate**
- **cell responses in vitro / in vivo**
- **clinical applications**

Participation is free of charge

Visit us: SCAN ME SCAN ME

Registration and abstract submission via e-mail to:
meldra.langenfelde@ukr.de
Deadline: 30th September 2021

Affiliation Bavarian Partner:
Experimental Trauma Surgery
Department of Trauma Surgery
University Hospital Regensburg, Germany

Affiliation Czech Partner:
New Technology Research Centre
University of West Bohemia
Pilsen, Czech Republic

Project 201 MATEGRA: Enhanced porous biomaterials functionalized with stem cells for improved osteointegration of implants

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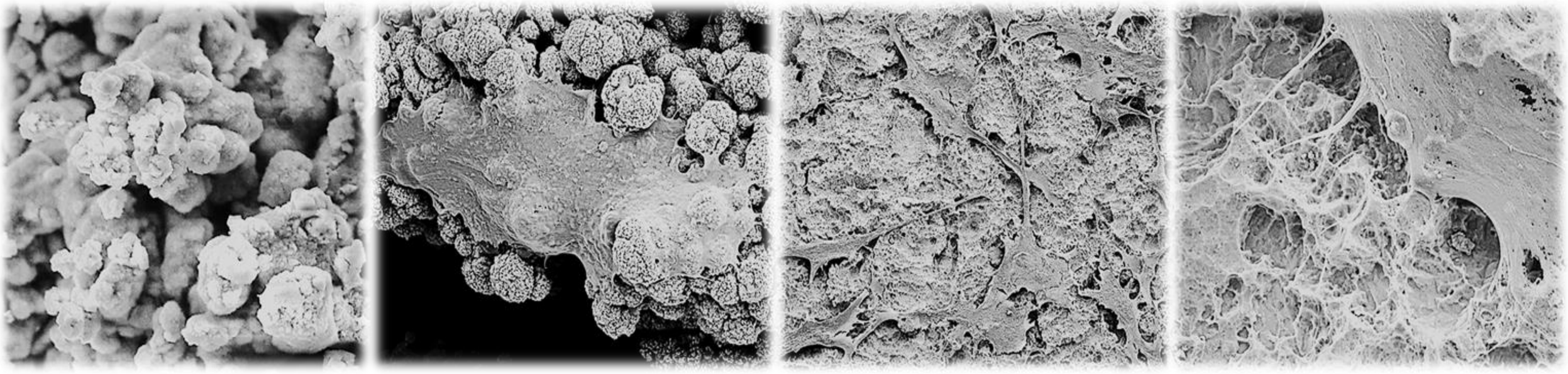

Advancing the interface: biomaterials & regenerative cells

Session 1: biomaterial advancement	*Session 2: biological responses*
09:30 – 09:45 **Opening**	12:30-13:30 Lunch break
09:45 – 10:15 **KEYNOTE LECTURE** **Porous ceramics for biotechnological applications** *Dr. Michael Maas, University Bremen, GER*	13:30 – 14:00 **KEYNOTE LECTURE** **Exploring and engineering the cell material interface** *Prof. Molly M. Stevens, Imperial College London, UK*
10:15 – 10:30 **MATEGRA PROJECT** **Laser-induced incorporation of bioactive nanoparticles onto porous titanium surfaces** *Dr. Tomáš Křenek, University of West Bohemia, Pilsen, CZ*	14:00 – 14:30 **MATEGRA PROJECT** **Nano-micro patterning of biomaterial surfaces via laser texturing significantly improves in vitro osteogenesis** *Theresia Stich, University Clinic Regensburg, GER*
10:30 – 10:45 **MATEGRA PROJECT** **Sol-gel derived silica-phosphate glasses: thermal properties and porosity architecture** *Dr. Tomáš Kovářík, University of West Bohemia, Pilsen, CZ*	14:30 – 14:45 Free abstract 6
10:45 – 11:00 Free abstract 1	14:45 – 15:00 Free abstract 7
11:00 – 11:15 Free abstract 2	15:00 – 15:15 Free abstract 8
11:15 – 11:30 Free abstract 3	15:15 – 15:30 Free abstract 9
11:30 – 11:45 Free abstract 4	15:30 – 15:45 Free abstract 10
11:45 – 12:00 Free abstract 5	
12:00 – 12:30 **KEYNOTE LECTURE** **To be updated** *Assoc. Prof. Zdeňka Kolská, J.E. Purkyne University, Usti nad Labem, CZ*	15:45 – 16:15 **KEYNOTE LECTURE** **Role of implant material and biomechanical stability on fracture-related infection** *Dr. Fintan Moriaty, AO Research Institute, Davos, CH*
12:30-13:30 Lunch break	16:15-16:30 **Closing remarks**