3rd Biomaterials Research Day

February 9, 2026

Session 1: Bioactive Glasses in Soft and Hard Tissue Engineering

9,00 - 9,10 Aldo R. Boccaccini / M. Michálek: OPENING

9,10 - 9,30 German Clavijó: Bismuth-containing bioactive glasses: silicate and borate networks for bioactive powders to be used in coatings deposition

9,30 - 9,50 Hannah Kissel: Synthesis and Characterization of Li-doped Mesoporous Bioactive Glass Nanoparticles for Articular Cartilage Repair

9,50 - 10,10 *Coffee break*

10,10 - 10,20 Andrada-Ioana Damian-Buda: Investigating the angiogenic potential of bioactive glass: a comparative study with equivalent ion solutions

10,20 - 10,40 Si Chen: 1393B3 Borate-based Bioactive Glass Scaffolds for Bone Regeneration Fabricated by Digital Light processing Based on Vat Photopolymerization

Section 2: Perspective from biological and molecular approach?

10,40- 11,00 Henrieta Škovierová: Dental-Derived Stem Cells and Biomaterials for Bone Tissue Engineering /Bridging Biology and Materials Science in Hard Tissue Repair

11,00 - 11,20 Andrea Šoltýsová: Molecular Approaches to Nanomaterial Biosafety: Focus on Bioactive Glasses

11,20 - 13,00 *Lunch*

Session 3: Mesoporous Bioactive Glass Nanoparticles and Bioprinting

13,00 - 13,20 Onat Basak: Tuning the Mesoporous Bioactive Glass Nanoparticles via Calcium Nitrate Addition Timing

13,20 - 13,40 Jonas Roeder: ECM-molecules as additives for alginate based bioinks to improve bioink-properties and cell-matrix interaction

13,40 - 13,50 *Coffee break*

13,50 - 14,10 Fatih Kurtuldu: Preparation and characterization of chitosan–gelatin/mesoporous bioactive glass nanoparticle composite scaffolds for tissue engineering applications

14,10 - 14,30 Memoona Akhtar: Convergent Bioprinting of Mesoporous Bioactive Glass Nanoparticles (MBGN)-Functionalized Alginate-Di-Aldehyde-Gelatin (ADA GEL) Scaffolds Loaded with Angiogenic Agents for Soft Tissue Engineering Applications

14,30 - 14,50 Aldo R. Boccaccini / M. Michálek: Opportunities for future FunGlass-FAU collaborations in Biomaterials

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