

2nd Biomaterials Research Day

Wednesday, 12th of February 2025

Session 1: Advances in Biomaterials for Tissue Engineering and Drug Delivery

- 9,00 - 9,10 OPENING (Aldo R. Boccaccini / M. Michálek)
- 9,10 - 9,30 Luiza Mirt / *Designing functionalized mesoporous biomaterials: MCM-41 and MBGNs for tissue engineering*
- 9,30 - 9,50 Daniela Jaramillo Raquejo / *Tailoring Silica nanoparticles via the Sol-Gel method for enhanced bioactivity and drug delivery*
- 9,50 - 10,10 Karla Faquine Rodrigues / *Improving biocompatibility and performance of PCL electrospun fibers via modified cellulose nanocrystals*
- 10,10 - 10,20 Coffee break
- 10,20 - 10,40 Zulema Vargas Osorio / *Fabrication of PCL, chitosan and κ -carrageenan electrospun nanofibers using different FA/AA ratios as benign solvent system*
- 10,40 - 11,00 Meng Li / *Rose Bengal-Integrated Mesoporous Bioactive Glass Nanoparticles: From Fabrication to Functionality*
- 11,00 - 11,20 German Clavijó / *Bismuth bioactive glass as precursor for biomaterials applications*
- 11,20 - 13,00 Lunch

Session 2: Innovations in Bioactive Glass and Composite Biomaterials for Bone Tissue Engineering

- 13,00 - 13,20 Rezvan Azari / *Development and Characterization of Multifunctional Zn-doped Bioactive Glass Nanoparticles for Bone Tissue Applications*
- 13,20 - 13,40 Hsuang-Heng Lu / *Development of composite hydrogels incorporating ion-releasing bioactive glass nanoparticles for bioprinting applications*
- 13,40 - 13,50 Coffee break
- 13,50 - 14,10 Martina Vitázková / *Mesoporous Bioactive Glass Nanoparticles with SiO₂ Shell and SPIONs for Enhanced Angiogenesis and Osteogenesis via Co-B Doping*
- 14,10 - 14,30 Ertugrul Varlik / *Fused deposited multi-targeted co-BG/PLA composite bone scaffolds for enhanced tissue regeneration activity*
- 14,30 - 14,50 *Opportunities for future FunGlass-FAU collaborations in Biomaterials* (Aldo R. Boccaccini / M. Michálek)



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