

MSE 2024

24 - 26 Sep 2024 (Darmstadt)

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B: Biomaterials

In an age where the fusion of science and technology is more pertinent than ever, the biomaterials sector stands at the forefront of revolutionary advancements. This topic intricately explores the synthesis, analysis, testing, and application of biomaterials, extending to the realms of medical devices, drug delivery systems, and tissue engineering. The inspiration behind this focus is not only grounded in the recent scientific advancements in biomedical materials but also addresses the critical challenges encapsulated within this exciting, strongly interdisciplinary domain of science and engineering. Participants from diverse backgrounds including materials scientists, physicists, chemists, biologists, and medical professionals will find themselves at the nexus of discussion where material solutions meet high performance and complex biological environments. Engage, learn and contribute to this transformative field that beckons a future of innovation and collaboration.

Topic coordinator



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B01: Biomaterials Fusion: Bridging Science, Technology, and Biomedicine - General Symposium Topic B

Prof. Dr.-Ing. Aldo R. Boccaccini (Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)), Prof. Dr. Cornelia Lee-Thedieck (Leibniz Universität Hannover), Prof. Dr. Cecilia Persson (Uppsala University)

B02: Bioceramics - Ceramics for healthcare, pharmaceutical and biological applications

Prof. Dr. Kurosch Rezwan (University of Bremen), Dr. Laura Treccani (CSMT Gestione S.c.a.r.l.)

B03: Biofabrication and 3D-Bioprinting

Prof. Dr. Andreas Blaeser (Technische Universität Darmstadt)

B04: Bioinstructional polymers and hydrogels

Prof. Dr. Dorothea Brüggemann (Bremen University of Applied Sciences), Prof. Dr. Cornelia Lee-Thedieck (Leibniz Universität Hannover)

B05: Biomaterials Applications

Prof. Dr.-Ing. Aldo R. Boccaccini (Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)), Dr. Sahar Salehi-Müller (University of Bayreuth)

B06: Novel functional biocompatible materials in 3D microprinting

Dr.-Ing. Enrico Domenico Lemma (Università Campus Bio-Medico di Roma), Prof. Dr. Alberto Rainer (Università Campus Bio-Medico di Roma)

B07: Vertical nano and microstructures for cellular interrogation and manipulation

Dr. Roey Elnathan (Monash University), Prof. Dr.-Ing. Francesca Santoro (RWTH Aachen University), Prof. Dr. Zhao Wenting (Nanyang Technological University)

B08: Metals in Medicine

Prof. Dr. Cecilia Persson (Uppsala University), Prof. Dr. Regine Willumeit-Römer (Helmholtz-Zentrum hereon GmbH)

