

FEMS EUROMAT23

03 - 07 Sep 2023 (Frankfurt am Main)

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FEMS EUROMAT is the most important international congress in materials science and technology in Europe. It continues a successful congress series promoting the transfer of knowledge and the exchange of experience between academia and industry. **Extended submission deadline: 15 March 2023**

F: Materials for Healthcare

This Area will cover the broad field of biomaterials for healthcare applications. There is continuous and growing interest in the development of biomaterials, including their synthesis, processing, characterization, and testing, for healthcare and medical applications, with impact in the fields of medical devices, permanent and temporary implants, drug delivery systems, and tissue engineering. Research in the field targets both the improvement of established or conventional biomaterials (e.g., being used as orthopedic or cardiovascular implants) and the synthesis and characterization of a novel, cell-responsive and bioactive materials. Emerging areas like surface responsive materials with antibacterial capability and bioinks for 3D bioprinting of tissue mimicking structures will also be covered. The topic area will thus include a series of symposia in which recent scientific advances in biomedical materials will be presented and discussed, showcasing broadly this exciting field of materials science and engineering. The pressing challenges in the biomaterials area, in particular in relation to the translation of scientific achievements to the clinic, will also be addressed. The symposia within Area F will offer an excellent platform for presentation and discussion of the most recent and relevant results in this highly interdisciplinary field. We expect the participation of materials scientists, biomedical engineers, cell biologists, medical professionals as well industrial R&D representatives to discuss the latest advances and challenges in the field of materials serving healthcare.

Area Coordinator



Prof. Dr. Aldo R. Boccaccini
Friedrich-Alexander-Universität Erlangen-N...



Prof. Dr. Sandra Van Vlierberghe
Gent University

F01: Biopolymers in Medicine: Advanced Applications

Prof. Dr. Silvia Farè (Politecnico di Milano), Dr. João F. Mano (University of Minho), Prof. Dr. Sandra Van Vlierberghe (Gent University)

F02: Bioactive Glasses and Composites for Tissue Engineering and other Advanced Healthcare Applications

Prof. Dr.-Ing. Aldo R. Boccaccini (Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)), Dr. Daniela Carta (University of Surrey), Prof. Dr. Antonio Jesús Salinas Sánchez (Universidad Complutense de Madrid)

F03: Biomaterials for Therapeutic Delivery

Prof. Dr. Hélder Santos (University of Helsinki), Prof. Dr. María Vallet-Regí (University Complutense of Madrid)

F04: Antibacterial Materials

Dr. Carles Mas-Moruno (Technical University of Catalonia (UPC)), Dr. Joanna Sadowska (RCSI Royal College of Surgeons)

F05: Structural and Bio-inspired Bioceramic Materials and Implants

Prof. Dr. Jérôme Chevalier (INSA Lyon), Prof. Dr.-Ing. Håvard J Haugen (University of Oslo), Dr. Simone Sprio (CNR - ISTEC), Dr. Anna Tampieri (CNR - ISTEC)

F06: Additive Manufacturing of Biomaterials and Biofabrication

Prof. Dr. Lorenzo Moroni (Maastricht University), Prof. Dr. Cecilia Persson (Uppsala University), Prof. Dr. Jürgen Stampfl (TU Wien)

F07: Metals in Medicine: Traditional and New Alloys, Permanent and Bioresorbable Metals

Prof. Dr. Diego Mantovani (Université Laval), Prof. Dr. Regine Willumeit-Römer (Helmholtz-Zentrum hereon GmbH)

F08: Surface Modification of Biomaterials and Coatings

Prof. Dr. Annabel Braem (KU Leuven), Prof. Dr. Dušan Galusek (Alexander Dubček University of Trenčín), Prof. Dr. Julietta V Rau (Italian National Research Council (CNR))

