

Special Issue

Biomaterial-Related Infections

Message from the Guest Editors

The use of medical devices is a common and essential part of medical care for both diagnostic and therapeutic purposes. However, these devices quite frequently lead to the incidence of infections, due to the colonization of their abiotic surfaces by biofilm-growing microorganisms, which are progressively resistant to antimicrobial therapies. Several methods have been developed to combat device-related infections, based on anti-infective biomaterials that repel microbes.

Among these strategies, surface coating with antibiotics, natural compounds or inorganic have been widely recognized as exhibiting broad-spectrum bactericidal or bacteriostatic activity. So, in order to achieve a better therapeutic response, it is crucial to understand how these infections are different from others to find new biomaterials, characterized by antifouling coatings, with repellent properties or low adhesion towards microorganisms, or antimicrobial coatings, which are capable of killing microbes, approaching the surface, improving biomaterials' functionalization strategies and supporting tissues' bio-integration. We welcome you to join us in this effort.

Guest Editors

Prof. Dr. Natália Cruz-Martins

1. Faculty of Medicine, University of Porto, 4099-002 Porto, Portugal
2. Life and Health Sciences Research Institute (ICVS), School of Medicine, University of Minho, 4710-057 Braga, Portugal

Dr. Célia Fortuna Rodrigues

1. Associate Laboratory I4HB—Institute for Health and Bioeconomy, University Institute of Health Sciences—CESPU, 4585-116 Gandra, Portugal
2. ALiCE—Associate Laboratory in Chemical Engineering, Faculty of Engineering, LEPAPE—Laboratory for Process Engineering, Environment, Biotechnology and Energy, Faculty of Engineering, University of Porto, Porto, Portugal

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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