



Biomaterial-Related Infections

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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.





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