



Antimicrobial Action of Biomaterials

Guest Editor:

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Message from the Guest Editor

The introduction of biomaterials as implantable devices has resulted in significant improvements in the patients' quality of life. However, long-term use of biomaterials has been threatened by the adhesion and proliferation of microorganisms, which can interact and form biofilms. Formation of biofilms causes local infections and even implant failure, resulting, in some cases, in patient's death. Many alternatives have been proposed over the years to prevent such events. From specialized polymers and functional groups to silver, and more recently, antimicrobial peptides and essential oils (to name a few), different functionalization techniques and bulk biomaterials have been employed in this fight against microorganisms. With the increasing-resistance of pathogens, the search for more effective strategies has been the focus of biomaterials specialists.

This Special Issue seeks manuscript submissions that further our understanding about the antimicrobial action of specialized biomaterials, the alterations that can be made to the biomaterials' surface and to which extent infection control can be attained.





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Editor-in-Chief

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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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