Special Issue

Antimicrobial Action of Biomaterials

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.

Guest Editor

Dr. Helena P. Felgueiras

Centre for Textile Science and Technology, University of Minho, Campus de Azurém, 4800-058 Guimarães, Portugal

Deadline for manuscript submissions

closed (15 July 2020)

Antibiotics

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed

mdpi.com/si/36942

Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

mdpi.com/journal/antibiotics

Antibiotics

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed

mdpi.com/journal/antibiotics

About the Journal

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.

Editor-in-Chief

Prof. Dr. Nicholas Dixon
School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, NSW 2522, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Infectious Diseases) / CiteScore - Q1 (General Pharmacology, Toxicology and Pharmaceutics)

MDPI