



Antimicrobial Activity of Medical Materials

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Deadline for manuscript
submissions:

closed (15 June 2022)

Message from the Guest Editor

Dear Colleagues ,

In hospital settings, both environmental- and medical device-mediated hospital associated infections (HAIs) are of great concern because they most of the time involve multi-drug resistant strains. Therefore, to try and reduce medical device- and surface-associated infections, many alternatives have been proposed over the years, including the development of “self-sanitizing” surfaces or biomaterials. Such surfaces/biomaterials would indeed be a great help in trying to reduce HAIs, whether arising from medical devices or environmental contamination. Investigated alternatives include copper alloys, silver nanoparticles, specialized or functionalized polymers with either antibiotics, antimicrobial peptides or essential oils, etc.

The need for such materials and surfaces is obvious and the possibilities are numerous. This Special Issue welcomes review and research papers touching on any of these antimicrobial medical devices/surfaces as well as on the various methods and preclinical and clinical trials developed to assess their efficiency.

Keywords: antimicrobial surfaces ; copper ; silver ; surface functionalization/modifications





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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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