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Antimicrobial and Antibiofilm Activity of Nanomaterials: From Bacteria to Yeast

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Deadline for manuscript submissions:

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Message from the Guest Editors

Bacteria and fungal infections negatively impact health, life quality, food production, and transportation. In particular, biofilm-forming microorganisms pose an additional risk in healthcare and food-processing settings. Antimicrobial nanomaterials are a promising approach to combat pathogens and disrupt bacterial and fungal biofilms. Current research highlights antimicrobial nanomaterials' use to detect, prevent, and combat pathogens and biofilms. In addition, some nanomaterials display synergistic effects when combined with antimicrobial drugs and disinfectants.

This Special Issue seeks manuscript submissions that expand our understanding of the impact of antimicrobial nanomaterials on microbial cell physiology and structure, biofilms, the microbiome, and antimicrobial drugs/antiseptics/disinfectants. Submissions that address the interactions between antimicrobial nanomaterials and microbial cells are particularly encouraged.













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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 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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