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Novel Antimicrobial Strategies to Combat Biofilm Infections

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Deadline for manuscript submissions:

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Message from the Guest Editors

Bacterial biofilms are prevalent in biotic and abiotic surfaces, causing complications of bacterial eradication in tissues, medical devices, implants, and catheters. The narrow pipeline of antibiotics and the development of resistance even to last resort antibiotics raises the urgent demand for novel antibacterial interventions.

This special issue targets novel antimicrobial strategies to combat biofilm infections in clinical settings, including but not limited to:

- Combination of standard of care antibiotics
- Bacteriophages and bacteriophage derived enzymes
- PK/PD models of biofilm eradication using novel antimicrobial agents *in-vitro*, *in-silico* and *in-vivo*
- Antimicrobial peptides
- Modified formulations such as liposomal formulations of standard of care antibiotics
- Clinical outcomes research/case reports related to novel strategies for combating biofilms
- Novel strategies against polymicrobial biofilms
- Surface modification strategies to prevent biofilm formation
- Use of biofilm inhibitors
- Repurposing non-antibiotic drugs
- Use of certain metabolite inhibitors



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Special Issue



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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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