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Strategies against Bacterial Biofilm Formation

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Deadline for manuscript submissions:

closed (15 April 2022)

Message from the Guest Editors

Biofilm is a mysterious multicellular bacterial form of life that has not revealed all its secrets. It represents an adaptive and quite common bacterial response to several stress factors, which confer an important protection to bacteria. Biofilm formation starts with bacterial adhesion on a surface, further reinforced by matrix synthesis to finally reach a complex structure. Biological tissues such as bones, lungs or even implanted devices are frequently the siege of biofilm colonization. Furthermore, biofilm implication in numerous diseases is regularly reevaluated upwards. As biofilms are tolerant to any known antibiotics, they represent a major issue for public health.

This Special Issue seeks manuscripts that focus on the development of antibiofilm strategies: chemical or natural compounds, physical techniques, functionalized materials or other innovative antibiofilm processes are welcomed.

- Biofilms mechanisms;
- Identification of bacterial targets to fight against biofilm;
- Antibiofilm molecules;
- Synergy of antimicrobial and antibiofilm molecules;
- In vitro or in vivo biofilm models development.



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Special Issue



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 disciplines 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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