

Special Issue

Novel Preventive and Therapeutic Strategies to Eradicate Biofilm Infections Based on New Antibacterial Compounds

Message from the Guest Editor

Biofilm-related infections pose a significant challenge in modern medicine, contributing to persistent and treatment-resistant infections. This Special Issue focuses on novel antibacterial compounds and alternative approaches to combat biofilm infections, aiming to reduce reliance on traditional antibiotics. We welcome the submission of original research papers, short communications, reviews, case reports, and perspectives on, but not limited to, the following topics:

- Novel antibacterial agents targeting biofilms;
- Combination therapies for enhanced biofilm eradication;
- Anti-biofilm peptides and enzymes;
- Bacteriophage-based strategies;
- Immunotherapeutic and host-directed approaches;
- Biomaterial innovations to prevent biofilm formation;
- Natural and synthetic inhibitors of biofilm development;
- Gut microbiota modulation for biofilm control.

Submitted manuscripts should emphasize strategies for overcoming biofilm-related infections while minimizing antibiotic dependence.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2026)



Antibiotics

an Open Access Journal
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Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed



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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 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.

Editor-in-Chief

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