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## The Advances in Antimicrobial Biomaterials

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Deadline for manuscript submissions:

closed (15 April 2024)

# **Message from the Guest Editors**

Dear Colleagues,

Starting with penicillin, mankind has advanced medicine to the next level by pioneering the field of antibiotics. However, the overuse of antibiotics in recent decades has resulted in the emergence of drug-resistant microbial strains. It has become one of the most pressing public health problems in the world. It is necessary to develop biomaterials with antimicrobial properties to inhibit microbial growth without using antibiotics and to ensure product quality and safety.

This Special Issue includes different aspects of synthesis, modification, and physicochemical characterization of antimicrobial agents for the fabrication of antimicrobial biomaterials. The potential topics include (but are not limited to) the following research areas:

- Natural-based biomaterials with antimicrobial properties.
- Organic or carbon nanoparticles with antimicrobial.
- Active biopolymer development and mass production process (statistical optimization).
- Antimicrobial films (bioelastomers) for food packaging applications.
- Screening technologies for antimicrobial candidates.
- Selective pathogen-sensing technology.



**Special**sue









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### **Editor-in-Chief**

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# Message from the Editor-in-Chief

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