



Bacterial and Antibiotic Resistance in the Environment

Guest Editors:

Dr. Maria King

Department of Biological and
Agricultural Engineering, Texas
A&M University, College Station,
TX, USA

Dr. Xingmao Ma

Department of Civil and
Environmental Engineering,
Texas A&M University, College
Station, TX 77843, USA

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Message from the Guest Editors

Dear Colleagues,

Antibiotic resistance (AR) is one of the most serious public health threats of our time. Modern life has introduced novel technologies, including widespread antibiotics, ventilation, and plastics, that pose new challenges to bacteria. The misuse of antibiotics has historically resulted in the rise of antimicrobial resistance, leading to the transmission of untreatable illnesses and, in some cases, death.

The importance of this field justifies a Special Issue of *Microorganisms* devoted to the latest progress in the detection, assessment, and modeling of antibiotic resistance in the environment. Accordingly, as Guest Editors, we invite you to submit research articles focusing on environmental factors affecting the behavior and transmission of bacteria, potentially triggering antibiotic resistance.

Keywords: antibiotic-resistant bacteria (ARBs); antibiotic-resistant genes (ARGs); environmental stress; bioaerosols; biofilms; membrane channels; microplastics (MPs); transmission; modeling; wastewater; hospitals





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Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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Contact Us

Microorganisms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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