



Antibiotics

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Antibiotics and Environment

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The problem of antimicrobial-resistant bacteria in the environment manifests itself in a wide variety of systems originating from humans and animals, which occur simultaneously in a complex mixture of these systems. Assessing the present situation, clarifying their occurrence and fate in the environment, assessing environmental risks, and taking effective measures to reduce or mitigate risks are methods that can provide useful knowledge for finding a point of coexistence between modern, affluent lifestyles and sustainable human prosperity. This Special Issue, on the topics of antimicrobials and the environment or antimicrobial-resistant bacteria and antimicrobials in the environment, intends to focus on broad environmental spaces, including rivers, lakes, marine areas, water treatment plants, wastewater treatment plants, and animal and livestock facilities. The aim is to provide an integrated resource that consolidates current evidence on environmental AMR, including advances in analytical methodologies, comprehensive syntheses of existing research, and emerging approaches for surveillance and control. By highlighting interdisciplinary perspectives and promoting the One Health framework, this collection supports the development of innovative and evidence-based strategies to address antimicrobial resistance at the interface of environmental, human, and animal health.



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