



antibiotics



Special Issue Reprint

Antimicrobial Resistance and Environmental Health

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This reprint comprises 11 articles addressing diverse aspects of the environmental dimension of AMR. It provides a comprehensive update on antimicrobial resistance and environmental health. One article reviewed the impact of tetracycline pollution on AMR in the environment and its ripple effect on ecological and human health. The authors further evaluated possible remediation strategies for tetracycline-polluted environments. If not addressed, environmental antimicrobial pollution could lead to the development of new AMR traits and the evolution of already existing ones in different environmental matrices, as reviewed by another chapter in this volume. Two articles address the presence and transmission of AMR fomites in households and vegetables in farms. Still focusing on unconventional environmental settings, one article provides a perspective on elucidating the role of bioaerosols on AMR transmission. Two other articles discuss AMR in wastewater, one in clinical and community settings, and the other reviewed wastewater AMR in Africa while pointing out the knowledge gaps and suggesting a future perspective for the successful application of the wastewater-based epidemiology of AMR. Two articles used genomic approaches to provide insight into environmental AMR, including in the marine environment. Finally, one article proposed a community-focused framework measuring One Health drivers of AMR as an approach to promote building “antibiotic-smart communities”.



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