Special Issue

Environmental Reservoirs of Antimicrobial Resistance: Modern Challenges, Threats and Solutions

Message from the Guest Editors

The progressive urbanization of areas and the synanthropization of free-living animals is one of the determinants of the development of drug resistance. Free-living animals and the surrounding environment are increasingly being involved in the circulation cycle of both drug-resistant microorganisms and the horizontal exchange of resistance genes. Therefore, our intention is to try to assess this phenomenon in environments where, apart from antibiotics naturally produced by soil microorganisms, the development of resistance acquired as a result of human activities should not take place. Are there any possibilities to limit and control this process in such an environment? Can we identify the major environmental reservoirs and factors contributing to the spread of resistance in untreated animals, soil, water, and among other potential reservoirs or vectors (e.g., invertebrates)? We expect that this Special Issue will at least to some extent answer the questions posed, so we encourage you to share your experience in this topic.

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

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