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Monitoring Pesticides in Antimicrobial Resistance Era and Sustainable Agriculture

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Message from the Guest Editors

Although the concept of sustainable agriculture through using green technologies to reduce the use of chemical inputs in agriculture is encouraged, it is still hard to avoid using pesticides in promoting the production of commercial crops in climate change conditions. Introducing various biotechnological approaches as alternatives to using pesticides and reducing the use of pesticides should be prioritized. On the other hand, if the use of pesticides is unavoidable, the environmental fate and ecotoxicity of such pesticides should be investigated beforehand, and the precise effective doses and ecological risk assessment require a standard application and recommendation. This Special Issue provides a platform to exchange and update our new insights into the link between pesticides and antimicrobial resistance problem, environmental fate, risk assessment and ecotoxicity of pesticides, biotechnological alternatives to reduce the use of pesticides, and transformation of pesticides together with the remediation technologies/approaches for the restoration of the pesticide-polluted environment. All types of articles that fall within the above research areas are welcome.



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Special Issue



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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.

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