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Public Health Implications Relating to Microbiological Pollution of Water

Guest Editor:

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Message from the Guest Editor

The microbial pollution of water is often associated with outbreaks caused by pathogens as bacteria, protozoa parasites and viruses. The current microbial water quality standards are based mainly on research of indicators represented by fecal and human pathogens bacteria; nevertheless, in the context of public health protection, it is well known their lack of a consistent correlation with other enteric pathogens microorganisms, especially viruses. Alternative parameters were proposed and tested in different water types as somatic coliphages or directly pathogenic agents indicated as index to assess the risk. The use of these different biological target is important to better understand the real microbial risk associated to water pollution by innovative approach as Quantitative Microbial Risk Assessment (QMRA). This Special Issue focused on several aspects of water microbial pollution, including monitoring of emerging pathogens, new tools for microbial research, study of relationship between contamination and health and QMRA approach relating to water pollution to estimate the risk for people.

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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. Discovery and advances in this research field play a critical role in providing a scientific basis for 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, open access journal.

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