Special Issue

Microbial Risk Assessment of Bioaerosols in Wastewater Treatment Plants

Message from the Guest Editors

Air aeration and mechanical agitation operations are the most important approaches to biological treatment in wastewater treatment plants (WWTPs). However, they produce numerous bioaerosols that harbor pathogens. These bioaerosols are mainly ingested through the pharynx or nares and can cause a range of adverse health effects, such as sewage worker's syndrome. Therefore, bioaerosol risk characteristics and measures to reduce their risk in WWTPs have attracted increasing attention. Microbial risk assessment is a framework intended for the quantitative estimation of health risks in occupational exposure scenarios. It is carried out as follows: (i) hazard identification, (ii) exposure assessment, (iii) dose–response assessment, and (iv) risk characterization. The Special Issue is now open for submissions. The findings presented in this Special Issue could contribute toward the establishment of mitigation measures and control strategies for the management of public health risks from the exposure to bioaerosols in local utilities.

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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