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Research on the Role of Microorganisms in Subsurface Contaminated Aquifers

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Message from the Guest Editors

Contaminated subsurface aquifers remain poorly characterized in terms of understanding the roles microorganisms play in biogeochemical processes. While we are restricted by our ability to cultivate and test the vast majority of microbes, omics based approaches (Genomics, Transcriptomics, Proteomic and Metabolomics) are rapidly expanding our understanding of the complex microbial communities and their potential functions in these ecosystems. The application of omics based approaches offers the potential to better identify and characterise the microbial processes, which in turn can be used to develop better bioremediation methods and improved modeling of contaminated sites.

The special issue aims to provide further understanding of the role of microbes in contaminated subsurface aquifers with an emphasis on the application of new omics based methods to characterise the microbial community composition, the effect of contaminant(s) on the microbial community and the role/function of the microbes in remediation processes.[...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/microorganisms_aquifers



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Special issue



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Message from the Editor-in-Chief

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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