

Research on the Role of Microorganisms in Subsurface Contaminated Aquifers

Guest Editors:

Dr. Geoffrey J. Puzon

Commonwealth Scientific and
Industrial Research Organisation,
Canberra, Australia

Dr. Ka Yu Cheng

CSIRO Land and Water, Perth,
Australia

Dr. Anna H. Kaksonen

School of Biomedical Sciences,
University of Western Australia,
Crawley 6009, Australia

Deadline for manuscript
submissions:

closed (31 January 2022)

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



[mdpi.com/si/76428](https://www.mdpi.com/si/76428)

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology
and Environment, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, France

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)