

## Special Issue

# Microbiotechnology Tools for Wastewater Treatment and Waste Valorization

### Message from the Guest Editors

Appropriate wastewater treatment before discharge can reduce the stress on fresh water bodies. Of the biological wastewater treatment technologies, membrane bioreactors (MBRs) yield high-quality effluent and require a small area. Recent developments in membrane materials have made MBRs more viable. Fouling is one of the main hinderances in the widespread use of this technology, and has attracted the attention of many researchers. Different physical, chemical and biological strategies have been developed to reduce this and make it more sustainable. This Special Issue aims to cover the recent biotechnological developments and advances in the area of MBRs for wastewater treatment, microbial communities present in wastewater and their role, quorum sensing and quorum quenching bacteria and their applications in MBR, new membrane materials and their interactions with biofilm communities, the role of biofilm communities in fouling, biofouling control strategies and their effect on MBR communities, biofilms and the role of suspended communities in nutrient removal, and combined and integrated MBRs and their microbial communities.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 2022)



## Fermentation

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## About the Journal

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Welcome to an open access journal, *Fermentation*, which meets the growing need for a high quality peer-reviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this journal and look forward to working with you to make *Fermentation* a leader in its field. Your contributions are vital for the success of this journal. Proposals for editing a special issue for a particular topical area are always welcome.

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### Editor-in-Chief

Prof. Dr. Christian Kennes  
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