

Special Issue

The Impacts of Human Activities on the Functional Ecology of Coastal Microbial Communities

Message from the Guest Editors

This Special Issue, entitled "The Impacts of Human Activities on the Functional Ecology of Coastal Microbial Communities", aims to address how anthropogenic influences affect microbial diversity and the broader marine ecological environment. It will explore the impact of pollutants, habitat loss, eutrophication, and climate-driven changes on microbial ecosystems from coastal areas to the deep ocean. Additionally, it seeks to highlight the role of new technologies, such as metagenomics, metatranscriptomics, single-cell genomics, and ecological modeling, in advancing our understanding of marine microbial dynamics. Contributions focusing on how human-induced changes in marine environments can be mitigated are encouraged. This Special Issue welcomes original research articles, reviews, and perspectives that provide novel insights into these pressing issues. **Keywords:** human activities; microbial communities; marine pollution; marine conservation; climate change; eutrophication; metagenomics; coastal ecosystems; marine ecological balance; deep sea

Guest Editors

Dr. Qiuzhen Wang

Dr. Xinlong An

Prof. Dr. Guangyi Wang

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR
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