

Special Issue

Climate-Driven Effects on the Human Microbiome and Public Health

Message from the Guest Editors

Topics of interest include the following: climate-induced changes in the human gut, skin, oral, and respiratory microbiomes; the role of microbiome shifts in emerging infectious diseases and zoonotic pathogen dynamics; the effects of temperature, humidity, and extreme weather events on human-associated microbial communities; interactions between diet changes due to climate stress and gut microbiota composition; the vulnerability of microbiomes in climate-affected populations, including low-resource settings; microbial resilience and adaptation—implications for health interventions and therapeutics; the influence of pollutants and climate-driven environmental toxins on the human microbiome; and policy and public health strategies to mitigate the health effects of microbiome disruption due to climate change. This Special Issue aims to bring together multidisciplinary perspectives, including microbiology, environmental science, bioinformatics, epidemiology, and public health, to address the complex interplay between climate change, the human microbiome, and health outcomes.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).