Special Issue

Biofilm Characterization and Application

Message from the Guest Editors

Biofilms comprise approximately 80% of microbial biomass on planet Earth. In fact, biofilms drive most of the biogeochemical process in all environments, with the relevant exception of the ocean. Pathogenic biofilms are involved in approximately 80% of human infections, particularly the chronic ones. Due to its global relevance, biofilm research has progressed rapidly and the complexity of these microbial communities has been partly unveiled. Issues still to be addressed include the variability of biofilm structure and composition and the complex mechanisms that regulate biofilm formation and dispersal. Biofilm research is a multiscale task, which requires analysis at both the single cell, small colony, and large aggregate scale, with a time resolution ranging from seconds to days. This Special Issue will focus on the advanced characterization and mechanistic studies of biofilms. Manuscripts involving multiple biofilm characterization methods are especially welcome. The ambitious goal is to collate some of the most recent advances on biofilm research, thus providing high-quality, open access information for young investigators.

Guest Editors

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Deadline for manuscript submissions

closed (15 December 2023)

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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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Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

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).

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