Special Issue

The Role of Atomic Force Microscopy in Microbiology: Sensing the Cell Surface

Message from the Guest Editors

Atomic force microscopy is now established as a key technology in microbiology. Imaging living cells at high resolution, probing the nanomechanical properties of cells, sensing their interactions with surfaces or with others microbes, characterizing adhesins at the surface of microbes, and analyzing biofilms structures and architectures are, among many others, the topics that benefit from the contribution of atomic force microscopy (AFM). In this Special Issue, we welcome review and original research papers dedicated to or including AFM data recorded on microbes. The subjects covered include but are not restricted to microbial adhesion, microbial division, biofilm formation, extracellular appendices characterization, and antimicrobial effects. Studies on bacteria, unicellular fungi, and microalgae are welcome.

Guest Editors

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Deadline for manuscript submissions

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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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