

Special Issue

Microbial Cultivation and Analysis in Microsystems

Message from the Guest Editors

Cultivating microorganisms to produce renewable and high-value products, both at a laboratory scale and a production scale, requires a large amount of testing and analysis to be conducted. We are seeking excellent and innovative papers in the field of microdevices that will push the limit of current technologies to the next level, which can be broadly utilized in a range of microbial cultivation and analysis applications. Possible example topics of interest for this Special Issue includes but is not limited to the following:

- Micro-scale microfluidic bioreactors and bioreactor arrays;
- Microfluidic systems for single cell analysis;
- Microfluidic systems for high-throughput cultivation of microorganisms;
- Microfluidic systems of high-throughput microorganism analysis;
- Microfluidic systems for microorganism separation based on their properties;
- Microfabricated sensors for portable microbial applications;
- Microfabricated sensors that can be integrated into bioreactors of any sizes;
- Integrated lab-on-a-chip systems that can conduct multiple microorganism handlings and analysis steps on a single chip.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2020)



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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 11.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2024).