

Special Issue

Multi-Omics Approaches in Microbial Research

Message from the Guest Editor

Multi-omics approaches utilize a combined set of omics analyses (including genomics, transcriptomics, proteomics, and metabolomics) for the same experiment or group of samples. Advances in high-throughput sequencing of microbiomes, together with the development of novel bioinformatics tools to efficiently associate the results of several omics data, have become increasingly significant in microbial research. An important challenge in microbial research is how to translate multi-omics measurements into biological insights. This Special Issue welcomes seminal articles on Multi-omics Approaches in Microbial Research for the identification of health, ecological, and biotechnological associations. Multi-omics approaches considering both community and single-cell metagenomics are welcome. This SI is open to original research articles and reviews covering multi-omics approaches on all sorts of microorganisms and microbial communities. Strong methodological articles are also welcome but must be accompanied by a compelling example or case study to demonstrate their applicability in microbial research.

Guest Editor

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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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