

Special Issue

Advances in Host-Gut Microbiota

Message from the Guest Editor

In this Special Issue entitled “State-of-the-Art Gut Microbiota Research in France”, we invite colleagues to contribute original research articles or reviews related to their multidisciplinary research, on topics including, but not limited to, the following: Biologically relevant host–microbiota models, from in vitro to in vivo and ex vivo; Structure and function of the microbiota; Microbial community genetics, transcriptomics, proteomics and metabolomics; Microbe–microbe interaction within host-associated microbial communities; Metabolic interaction with the host; Inflammatory diseases; Interaction with the immune system; Microbial biodegradation of nutrients and xenobiotics: role in drug response; Microbial ecology; Microbial biofilms interacting with host mucosa; Microbial biogeography; Microbial functions in the different habitats within the gut; Metabolic flux analysis; Analysis of functionalities by stable isotope probing (DNA, RNA, and protein); Model systems for studying microbiome biology; Novel technologies for the analysis of structure and function of the microbiota.

Dr. Marion Garofalo

Guest Editor

Dr. Jean-Paul Motta
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Deadline for manuscript submissions

closed (31 October 2025)



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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

Dr. Nico Jehmlich

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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).