

Special Issue

Neonatal Microbiome, Intestinal Inflammation, and Necrotizing Enterocolitis (NEC)

Message from the Guest Editors

NEC is a leading cause of preterm infant morbidity and mortality, and the most common gastrointestinal emergency in the neonatal intensive care unit (NICU). In this Special Issue of *Microorganisms*, we invite you to send contributions concerning the latest information on neonatal microbiome development, particularly in the preterm infant, host characteristics influencing microbiome composition, and microbiome effects on the preterm immune system, intestinal epithelium, and barrier function. In addition, the role of specific microbiota, whether original colonizers or targeted probiotic supplements, in mitigating NEC risk will be included. This issue seeks to provide a comprehensive composite of the advances in host microbiome development, modifiable influences on microbiome composition, such as mode of feeding, and the potential for targeted pre- and probiotics in modulating or preventing NEC. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

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).