

Special Issue

Role of the Gut Microbiota in Children's Health

Message from the Guest Editor

The human microbiota plays a fundamental role in maintaining intestinal homeostasis, immune development, and overall health, starting in early life. Emerging evidence is highlighting the dynamic interactions between gut microorganisms, diet, genetics, and the environment, particularly during infancy and childhood—a critical window for shaping long-term health outcomes. Alterations in microbiota composition have been linked to a wide range of pediatric disorders, including celiac disease, inflammatory bowel diseases, eosinophilic gastrointestinal disorders, and liver diseases. This Special Issue will provide an updated overview of the role of the microbiota in pediatric health and disease, exploring the mechanisms underlying host-microbe interactions and the potential clinical applications of microbiota-targeted interventions. Contributions will cover topics ranging from nutritional modulation and fecal microbiota transplantation to the emerging role of bioactive compounds in early life. By showcasing multidisciplinary perspectives, we aim to advance our understanding of this topic and promote evidence-based use of microbiota-related approaches in pediatric care.

Guest Editor

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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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