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Microbiomes and Childhood Health Outcomes

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Message from the Guest Editors

The human microbiome, which comprises diverse microbial communities residing within the gastrointestinal tract, plays a crucial role in modulating the health outcomes of children via immunologic support and protection. Environmental factors, such as an imbalanced and processed diet, as well as exposure to toxins, can adversely impact the composition and diversity of the microbiome. The aim of this Special Issue is to explore the contributory effects of microbiomes on the development, progression, prognosis, mortality, and survival of pediatric obesity, cardiovascular disease, type 2 diabetes, and malignant neoplasms, as well as to investigate potential interventions targeting the microbiome for therapeutic advantage and substantial outcomes.

This Special Issue (SI) aims to investigate the role of the microbiome in modulating immune responses, metabolic pathways, and inflammatory processes associated with these conditions, as well as to explore the potential of microbiome-based interventions, such as probiotics, prebiotics, and fecal microbiota transplantation, in the prevention and management of these diseases.



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Special Issue



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Message from the Editor-in-Chief

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