

Special Issue

Pediatric Infectious Diseases: Diagnostics, Antimicrobial Resistance, Pathogenesis, and Vaccine Development

Message from the Guest Editor

Pediatric infectious diseases remain a major global health challenge, causing significant morbidity and mortality despite advances in prevention, diagnosis, and treatment. Children are particularly vulnerable due to developmental immunology, age-specific exposures, and social determinants influencing disease transmission and outcomes. While progress in molecular diagnostics, genomic surveillance, and immunological profiling has improved understanding of pathogen behavior and host responses in early life, emerging pathogens, antimicrobial resistance, and vaccine hesitancy continue to threaten child health. This Special Issue highlights advances in diagnostics, pathogenesis, antimicrobial resistance, and vaccine research and implementation in pediatric infectious diseases. We welcome original research, reviews, and expert perspectives spanning translational science, clinical practice, and public health. By fostering collaboration across disciplines, this Issue aims to support evidence-based strategies to improve prevention and care for infectious diseases in children.

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.

Editor-in-Chief

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