



## Diagnosis and Prevention of Asthma in Children

Guest Editors:

**Dr. João Cavaleiro Rufo**

Department of Epidemiology,  
Institute of Public Health,  
University of Porto, 4050-600  
Porto, Portugal

**Dr. Luís Delgado**

Basic and Clinical Immunology,  
Department of Pathology,  
Faculty of Medicine, University of  
Porto, 4099-002 Porto, Portugal

Deadline for manuscript  
submissions:

**closed (30 June 2021)**

### Message from the Guest Editors

The high prevalence of asthma is still a worldwide concern. Some phenotypes of asthma are difficult to diagnose, which may lead to an inappropriate therapy prescription and consequent uncontrolled symptoms. Diagnosis is especially challenging in children, not only due to the fact that up to 50% of children up to 6 years old present any sort of wheezing, but also due to the associated lower reproducibility in spirometry tests. Therefore, further research is needed to promote asthma diagnosis and prevention. On one side, we must look into novel biomarkers and clinical technologies to improve asthma monitoring. Further solutions are also needed to predict therapy responsiveness, not only to corticosteroid therapy, but also to the relatively recent Th2 inflammation-inhibiting biologicals. On the perspective for disease prevention, we need to further explore the determinants and triggers of asthma in children, such as the impact of the environment, biodiversity, and diet on the immune system. This Special Issue invites the experienced researchers on the field to contribute to asthma prevention and diagnosis in children by providing their research findings and high academic outputs.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Paul B. Tchounwou**

RCMI Center for Urban Health  
Disparities Research and  
Innovation, Richard Dixon  
Research Center, Morgan State  
University, 1700 E. Cold Spring  
Lane, Baltimore, MD 21251, USA

## Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Public Health, Environmental and Occupational Health*)

## Contact Us

---

International Journal of  
Environmental Research and Public  
Health Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/ijerph](http://mdpi.com/journal/ijerph)  
[ijerph@mdpi.com](mailto:ijerph@mdpi.com)  
[X@IJERPH\\_MDPI](https://twitter.com/IJERPH_MDPI)