



an Open Access Journal by MDPI

Recent Advances in Asthma Research in a Multiomics Era

Guest Editors:

Dr. Natalia Hernandez-Pacheco

Department of Clinical Science and Education, Söderjukhuset, Karolinska Institutet, Sjukhusbacken 10, 118 83 Stockholm, Sweden

Dr. Esther Herrera-Luis

Genomics and Health Group, Department of Biochemistry, Microbiology, Cell Biology and Genetics, Universidad de La Laguna, 38200 San Cristóbal de La Laguna, Spain

Deadline for manuscript submissions:

closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

It is well known that asthma is a complex condition as the result of intricate interactions between numerous endogenous and exogenous factors. Among these, the important contribution of the individual's genetic composition and environmental exposures has been widely evidenced. Nonetheless, we are still far from understanding the complete picture of the molecular and cellular mechanisms underlying this disease, with the identification of novel disease biomarkers remaining necessary. These might contribute to the accurate diagnosis of asthma, effective treatment and disease control, early identification of those patients at higher risk for adulthood chronic airway disease, and the development of alternative preventive and therapeutic strategies in a personalized manner.

This Special Issue aims to focus on recent advances and applications of single- and combined omics approaches to the asthma field with a focus not only on disease susceptibility but also different asthma-related traits. Both original research and review articles are welcome.

Dr. Natalia Hernandez-Pacheco

Guest Editor



mdpi.com/si/140361

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

Author Benefits

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

High Visibility: indexed within *Scopus*, *SCIE (Web of Science)*, *PubMed*, *PMC*, *CAPus / SciFinder*, and other databases.

Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Medicine (miscellaneous))

Contact Us

Biomedicines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
[X@Biomed_MDPI](https://twitter.com/Biomed_MDPI)