



*genes*



an Open Access Journal by MDPI

## Genetics and Epigenetics of Allergy Diseases

Guest Editors:

**Prof. Dr. Catalina Sanz**

Department of Microbiology and Genetics, University of Salamanca, 37007 Salamanca, Spain

**Prof. Dr. Asunción García-Sánchez**

Department of Biomedical Sciences and Diagnostics, University of Salamanca, 37007 Salamanca, Spain

Deadline for manuscript submissions:

**closed (1 March 2022)**

### Message from the Guest Editors

Allergic diseases are a clear example of complex multifactorial diseases mediated by the interaction of different genetic and epigenetic factors. Whole genome sequencing studies and polygenic risk score analyses in well-characterized homogeneous populations have provided a wealth of information on many susceptibility genes. However, many gene associations have not been able to be replicated. In this sense, epigenetic factors provide additional information that could explain not only the discrepancies observed between monozygotic twins but also phenomena such as incomplete penetrance, variable expression, gender and progenitor effects. Different studies have shown a connection between disease susceptibility and environmental exposure during intrauterine life or early childhood, potentially mediated by epigenetic modifications. In response to an environmental challenge, epigenetic modifications allow an adaptive change that modifies gene expression and leads to the triggering of allergic diseases. In this Special Issue, different genetic and epigenetic factors involved in the development of allergic diseases will be considered.



[mdpi.com/si/92124](https://mdpi.com/si/92124)

# Special Issue



*genes*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Selvarangan Ponnazhagan**

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

## Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

Why not consider *Genes* for your next genetics paper?

## 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, MEDLINE, PMC, Embase, PubAg, and other databases.

**Journal Rank:** JCR - Q2 (*Genetics and Heredity*) / CiteScore - Q2 (*Genetics (clinical)*)

## Contact Us

---

*Genes* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/genes](http://mdpi.com/journal/genes)  
[genes@mdpi.com](mailto:genes@mdpi.com)  
[X@Genes\\_MDPI](#)