



*genes*



an Open Access Journal by MDPI

## Molecular Mechanisms of Immune Cell Function in Obesity and Related Diseases

Guest Editor:

**Prof. Dr. Beiyan Zhou**

Department of Immunology,  
University of Connecticut,  
Farmington, CT, USA

Deadline for manuscript  
submissions:

**closed (20 February 2023)**

### Message from the Guest Editor

Obesity is a well-recognized health risk for various diseases. Characterized with metabolic and immunologic abnormalities, obesity has been associated with a wide variety of chronic diseases including type 2 diabetes, cardiovascular diseases, and some cancers, as well as compromised acute response to pathogen invasion. It is a crucial task to understand how immune cells contribute to obesity-induced health risk, and more importantly, how such knowledge can be translated to prevention/intervention strategy to mitigate obesity-associated diseases. Recent discoveries on this topic have provided valuable information to understand the molecular mechanisms underlying immune cells actions under obesity stress at genetic, transcriptomic, and epigenetic levels. This Special Issue on “Molecular Mechanisms of Immune Cell Function in Obesity and Related Diseases” aims to provide a comprehensive overview of the most recent advances in this timely topic and a preview to future research directions and challenges to mitigate obesity-induced health risks.



[mdpi.com/si/104883](https://mdpi.com/si/104883)

# 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 & Heredity*) / CiteScore - Q2 (*Genetics*)

## Contact Us

---

*Genes* 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/genes](http://mdpi.com/journal/genes)  
[genes@mdpi.com](mailto:genes@mdpi.com)  
[X@Genes\\_MDPI](https://twitter.com/Genes_MDPI)