Special Issue

The Immune Response in the Time of Omics Research

Message from the Guest Editors

The immune system has evolved to protect organisms from pathogens. A multiplicity of cells and molecules act together in a dynamic and complex network capable of specifically recognizing and eliminating an apparently limitless variety of foreign invaders. The complexity of the defensive system reaches its maximum in the higher vertebrates where the two aspects of immunity, innate and adaptive, are closely connected with the only objective to restore the equilibrium present in the organism before the pathogen enters. However, we have a limited understanding of how components of these two immune interact and work together. The rapid emergence of high-throughput omics methodologies has made it possible to capture global changes in the host that are induced by an antigenic stimulus. The analysis and integration of datasets hold the promise of providing a broader and deeper understanding of the complex defensive mechanisms. In this Special Issue, we invite you to submit either original research or review articles that use genomic and functional approaches to unraveling basic topics that contribute to knowledge of the complex molecular mechanisms of the vertebrate immune response.

Guest Editors

Dr. Rachele Antonacci

Dr. Sara Massari

Prof. Salvatrice Ciccarese

Deadline for manuscript submissions

closed (1 July 2021)

G C A T T A C G G C A T

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/55096

Genes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

mdpi.com/journal/ genes



G C A T T A C G G C A T

Genes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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?

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

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))

