

## Special Issue

# Innate Immunity and Inflammatory Diseases

### Message from the Guest Editors

- Molecular mechanisms governing innate immune response in sterile inflammation.
- Activation, signalling and targeting of toll like receptors (TLRs) in inflammatory diseases.
- The role of innate immune cell signaling pathways, such as the cyclic GMP-AMP synthase (cGAS) stimulator of interferon genes (STING), retinoic acid-inducible gene (RIG-1)- melanoma differentiation-associated protein 5 (MDA5), mitochondrial antiviral-signaling protein (MAVS) pathway, and NLR family pyrin domain-containing 3 (NLRP3) inflammasome activation, in various inflammatory diseases.
- Regulation and signalling of interferon response to inflammation and tissue injury.
- Differential activation and contribution of tissue-resident and infiltrating innate immune cells to the tissue injury and repair.
- Mechanism of innate immune and inflammatory response to retrotransposons.
- Epigenetic and transcriptional regulation of innate immune cell signalling pathways.
- Strategies to exploit the innate immune system for cancer immunotherapy and other chronic inflammatory diseases.
- Macrophage efferocytosis in inflammation resolution.

### Guest Editors

Dr. Veera Ganesh Yerra  
Dr. Santosh Reddy Sukka  
Dr. Anil Kumar Kalvala

### Deadline for manuscript submissions

closed (31 March 2025)



## Biology

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/si/207684](https://mdpi.com/si/207684)

*Biology*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[biology@mdpi.com](mailto:biology@mdpi.com)

[mdpi.com/journal/  
biology](https://mdpi.com/journal/biology)





# Biology

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/journal/  
biology](https://mdpi.com/journal/biology)



## About the Journal

### Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

---

### Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).