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

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

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

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 17.4 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).

MDPI