

Special Issue

Macrophages and Antimicrobial Immune Response

Message from the Guest Editor

Macrophage cells play a vital role in the surveillance and detection of potential infectious agents within the innate immune system and provide important links to the adaptive immune response. Indeed, these cells play important sentinel roles within organs as diverse as the skin, gut, lung and brain. Interestingly, macrophage responses to microbial pathogens are tempered depending on the tissue they reside in and the type of insult that is incurred, and they can range from highly pro-inflammatory to distinctly anti-inflammatory. Due to their importance in regulating and coordinating all immunity, a special interest is being taken in current and novel discoveries regarding macrophages and immunity. For this Special Issue, we invite researchers to contribute with either original research (both in vivo and in vitro studies) or review articles focusing on the complex and myriad ways that macrophages provide antimicrobial effects within the body and their relevance for therapeutic intervention.

Guest Editor

Dr. Vijay Sivaraman

Department of Biological and Biomedical Sciences, College of Arts and Science, North Carolina Central University, Durham, NC 27707, USA

Deadline for manuscript submissions

closed (31 January 2025)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.3
Indexed in PubMed



mdpi.com/si/185949

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

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





Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.3
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).