Special Issue

Molecular Insights into the Immune Contexture of Tumors

Message from the Guest Editors

The immune contexture—comprising the composition, localization, and functional state of immune cells in the tumor microenvironment—has become a key determinant of cancer progression, therapeutic response, and prognosis. Advances in single-cell and spatial omics are revealing the complexity of tumor—immune interactions at unprecedented resolution. We welcomes original research articles and reviews that explore the molecular mechanisms shaping immune responses within tumors. Topics of interest include (but are not limited to) the following:

- Spatial profiling of immune cells in tumors;
- Mechanisms of immune escape and T cell dysfunction:
- Tumor-associated macrophages and myeloid cell reprogramming;
- Tertiary lymphoid structures and local immune architecture;
- Neoantigen landscape and antigen presentation defects;
- Cytokine and chemokine networks in the tumor microenvironment:
- Biomarkers for immunotherapy response and resistance;
- Integration of multi-omics in tumor immunology;
- Translational models for immuno-oncology.

Guest Editors

Prof. Dr. Leonardo Oliveira Reis

 UroScience and Department of Surgery (Urology), School of Medical Sciences, University of Campinas, Unicamp and ImmunOncology Pontifical Catholic University of Campinas, PUC-Campinas, Sao Paulo, Campinas. Brazil

 INCT-UroGen Coordinator, National Institute of Science, Technology and Innovation in Genitourinary Cancer (INCT), Campinas, Sao Paulo, Brazil

Dr. Guilherme Zweig Rocha

Faculty of Medical Sciences, Department of Internal Medicine, University of Campinas (UNICAMP), Sao Paulo CEP 13083-887, Brazil

Deadline for manuscript submissions

31 March 2026



Biology

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/245088

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





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).

