

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 welcome 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

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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.

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