

Special Issue

Molecular Cell Biology of T Cells in Cancer and Infectious Diseases

Message from the Guest Editors

T cells are a cornerstone of the adaptive immune response, playing pivotal roles in the body's defense against cancer and infectious diseases. Understanding the molecular underpinnings of T cell biology is crucial for improving T cell fitness and developing targeted interventions. Advances in genomics, proteomics, metabolomics, and imaging technologies have revealed novel insights into T cell signaling pathways and their adaptations in both the tumor microenvironment and during pathogen invasion. This Special Issue explores the intricate mechanisms governing T cell development, activation, differentiation, and effector functions through state-of-the-art research and innovative methodologies. Our goal is to provide a comprehensive platform for disseminating novel findings that illuminate the regulatory mechanisms driving T cell biology and its applications.

Guest Editors

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).