Special Issue

Overcoming Resistance to Immune Checkpoint Inhibitors in Cancer: Mechanisms, Models, and Therapeutic Strategies

Message from the Guest Editors

Immune checkpoint inhibitors (ICIs) have revolutionized cancer treatment, offering durable clinical responses in multiple tumor types. However, resistance to these therapies remains a significant barrier to broader success. The mechanisms driving resistance are multifactorial. This Special Issue will advance our understanding of the biological basis of ICI resistance and explore strategies to overcome these limitations. We welcome both original research articles and comprehensive reviews focusing on mechanistic studies, translational discoveries, and therapeutic interventions tested in preclinical cancer models. Particular emphasis will be placed on innovative approaches that enhance tumor immunogenicity, promote immune infiltration, restore immune activity, or synergize with existing treatments. By bringing together diverse perspectives, this Special Issue will accelerate the translation of experimental findings into clinical practice and ultimately improve outcomes for patients receiving immunotherapy.

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).