Special Issue

Metabolic Hallmarks in Cancer

Message from the Guest Editors

Cancer is a complex disease that disrupts the delicate balance of cellular processes, with metabolic reprogramming being a central hallmark. This reprogramming is a result of the intricate interplay between cellular and molecular mechanisms that enable cancer cells to adapt, survive, and proliferate in a nutrient-limited and hypoxic tumor microenvironment. The cellular and molecular aspects of cancer metabolism involve a shift in energy production pathways, alterations in biosynthetic processes, and the exploitation of metabolic intermediates for the synthesis of macromolecules essential for tumor growth. This Special Issue will explore the fundamental metabolic adaptations that cancer cells undergo, such as the Warburg effect, the reverse Warburg effect, glutamine addiction, and the pentose phosphate pathway's role in nucleotide synthesis. By focusing on these cellular and molecular aspects, we aim to provide insights into the metabolic pathways that are uniquely altered in cancer and how these changes contribute to the disease's progression, offering potential targets for novel therapeutic interventions. Both comprehensive reviews and original articles are welcome.

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).