

Special Issue

Molecular Mechanisms of Apoptosis in Disease Pathogenesis and Targets for Therapeutic Intervention

Message from the Guest Editors

In this Special Issue, we invite you to contribute original research articles or reviews that focus on the roles of specific genes, molecular mechanisms, signaling cascades, and regulators of apoptosis, which are important in both normal development, tissue homeostasis, and the etiology of an increasing number of pathophysiological conditions. Abnormalities in apoptotic regulation have been shown to play a critical role in the pathogenesis of these diseases, and delineating the roles of specific genes and targeting these genes involved holds promise for effective treatment. This Special Issue will highlight the practical aspects of modulating this process in the development of therapeutic approaches to cancer, myocardial infarction, ischemic disorders, spinal cord injuries, bacterial and viral infection, as well as autoimmune and neurodegenerative diseases. More efficient therapeutic strategies are being developed to generate apoptosis modulators for clinical use that can potentially target these molecular machineries by genetic or pharmacological intervention. We look forward to receiving your contributions.

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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 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).