Special Issue

Cell Death and Apoptosis

Message from the Guest Editors

Cell death is a fundamental biological process that ensures tissue homeostasis, guides embryonic development, and regulates immune responses. Traditionally, it was divided into non-regulated forms, such as necrosis, and genetically regulated mechanisms, including apoptosis. The regulation of cell death is tightly connected to human health and disease. While non-regulated cell death often results from injury or toxic insults, dysregulation of cell death mechanisms is implicated in many pathological conditions. Among them, cancer is particularly prominent, as resistance to apoptosis and other cell death pathways represents a key hallmark of tumor biology and influences therapeutic response. Beyond oncology, aberrant cell death regulation contributes to neurodegeneration, infection, and autoimmune disorders. This Special Issue of Cells aims to gather original research and review articles that advance our understanding of apoptosis and alternative modes of cell death, from their molecular machinery and signaling pathways to their impact on health and disease. We hope to provide a broad and stimulating forum that reflects the dynamic evolution of this fascinating field.

Guest Editors

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Deadline for manuscript submissions

31 March 2026

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/253599

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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).