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Regulation of Apoptosis in Health and Disease

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Deadline for manuscript submissions:

closed (10 May 2023)

Message from the Guest Editor

Apoptosis, the prototype of programmed cell death (PCD) eliminates unwanted cells during development. Over the past years, additional forms of PCD have been identified that also play critical roles in normal and pathological physiology. These different cell death pathways, in addition to unique molecular players, engage several signaling components and master regulators of the apoptotic machinery. Apoptosis is regulated by two major pathways: the intrinsic or mitochondrial pathway, which is initiated by alterations in the microenvironmental milieu and controlled by the Bcl-2 family of proteins; and the extrinsic or death-receptor-mediated pathway, which is activated by plasma membrane death receptors and plays a fundamental role in homeostasis maintenance and immune system function.

The present Special Issue aims to highlight some of the newest advances in the molecular mechanisms of apoptosis, especially those linking the apoptotic machinery with other fundamental processes of the cell, including but not limited to ciliogenesis, asymmetric division, senescence, and apoptotic clearance.



mdpi.com/si/108864

Special Issue



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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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