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The Role of Apoptosis in Tissue Homeostasis, Malignancies, and Disease Pathogenesis

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Deadline for manuscript submissions:
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Message from the Guest Editors

Apoptosis is a hallmark physiological process that normally occurs during the cell life in response to a wide variety of stimuli and conditions necessary during the tissue development, remodeling, and homeostasis.

Apoptotic pathways are widely are often found to be missing or altered in neoplastic cells. The mutation of the p53 pathway and the lack of caspase activity are the major modifications found in human malignancies. Further evidence suggests p53-dependent apoptosis in neurodegenerative diseases such as Parkinson's, Alzheimer's, Huntington's, and amyotrophic lateral sclerosis disease and during the cell death of the neural and vascular cells of the retina in diabetic retinopathy. Apoptosis is also a hallmark checkpoint for the development of autoimmunity, where the dysregulated elimination of cells may also contribute to systemic autoimmune diseases.

This Special Issue aims to provide a platform for the collection of original research and review articles that investigate the role of apoptosis in health and disease, to increase our knowledge of the apoptotic process and to improve available therapeutic options to overcome disease progression.

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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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