Special Issue

Regulation of Apoptosis in Health and Disease

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 dead-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.

Guest Editor

Prof. Dr. Theologos Michaelidis

1. Associate Professor, Department of Biological Applications and Technologies, University of Ioannina, Ioannina, Greece
2. Collaborating Research Scientist/Group Leader, Institute of Biomedical Research, Foundation for Research and Technology, Hellas, Greece

Deadline for manuscript submissions

closed (10 May 2023)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/108864

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/journal/cells

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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

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).