

Special Issue

Programmed Cell Death in Health and Disease

Message from the Guest Editors

Programmed cell death is an evolutionary conserved process characterized by the activation of intrinsic signaling programs that lead to cell self-destruction upon exposure to developmental or environmental stimuli. This cell death program was first identified in plants where it represents a crucial event for development and morphogenesis as well as a defense mechanism against infected or damaged cells. In animals, programmed cell death is involved in organogenesis, tissue remodeling, and homeostasis. Abnormal regulation of this program is associated with a plethora of human disorders, including developmental disorders, immunodeficiency, autoimmune diseases, neurodegeneration, and cancer. Notably, intrinsic resistance of cancer cells to programmed cell death contributes to their “bullet proof” characteristic against several chemotherapeutic drugs. This Special Issue of *Cells* welcomes original articles and reviews covering the broad spectrum of processes in which programmed cell death is involved, both in health and disease.

Guest Editors

Dr. Loredana Moro

Institute of Biomembranes, Bioenergetics and Molecular Biotechnologies (IBIOM), National Research Council, 70126 Bari, Italy

Dr. Lara Gibellini

Department of Surgical and Medical Sciences for Children and Adults – University of Modena and Reggio Emilia, Modena, Italy

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

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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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

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

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Copenhagen, Denmark

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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).