

Special Issue

Cell Apoptosis

Message from the Guest Editor

Apoptosis is a form of regulated cell death that plays a major role in an array of physiological and pathophysiological conditions. The execution of apoptosis is triggered by distinct and interconnected signaling pathways. Exponential progress in our understanding of the regulation of death and survival signaling cascades has recently been achieved. This includes the executioners of apoptosis, B-cell lymphoma 2 family proteins, and oxidative stress. New advances in this field will allow for the identification of new modulators of the pathways in cell death and survival. This knowledge may contribute to the preparation of therapeutic strategies of interest in medicine. It includes the ability to potentiate the cytotoxicity against malignant cells and has potential application in other metabolic or immunological diseases. This Special Issue aims to improve our understanding of the molecular mechanisms involved in apoptosis. Contributions may relate to the events triggered by different physical and chemical agents, including naturally occurring and synthetic compounds, and/or by physiological and pathophysiological conditions.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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