



BioMed Research International

Special Issue on
Cell Death in Disease

CALL FOR PAPERS

Cell death is an essential process required for tissue homeostasis, embryonic development, and the elimination of deleterious cells within the body. During many disease processes, mechanisms that govern normal cell death become deregulated. For example, some of the most commonly mutated genes found in cancer, p53 and Bcl-2, dictate whether cells live or die. Moreover, divergent mechanisms, such as necrotic and pyroptotic cell death, are known to promote disease progression. In addition, there is also an urgent clinical need for more sensitive measures of cell death that will assist clinicians in therapy selection and patient management.

In order to treat these diseases, it is vital that we gain better understanding of the molecular mechanisms that drive cell death and design better tools to monitor these pathways in living subjects. Furthermore, much work still needs to be done to fully understand the signal transduction pathways of nonapoptotic forms of cell death, such as ferroptosis and necroptosis.

We therefore invite investigators to contribute original research articles as well as review articles that describe emerging concepts in Cell Death in Disease.

Potential topics include, but are not limited to:

- ▶ Characterization of cell death signaling pathways (apoptosis/necrosis/autophagy)
- ▶ Cell death induction: monitoring therapeutic response and disease progression
- ▶ Mechanisms to escape cell death, for example, senescence, quiescence, and drug resistance
- ▶ Emerging nonapoptotic forms of death: ferroptosis, necroptosis, pyroptosis, etc.
- ▶ Role of cell death in disease: neurology, oncology, autoimmunity, cardiology, and viral disease
- ▶ Latest technologies (cell death imaging, whole-organism, single cell, and subcellular)

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/molecular.biology/celldd/>.

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First Round of Reviews

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