



## Signal Pathways Involved in Resistance to Apoptosis in Cancer

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### Message from the Guest Editor

Dear Colleagues,

This Special Issue, “Signal Pathways Involved in Resistance to Apoptosis in Cancer”, will cover a selection of recent research topics and current review articles related to the intracellular signaling of resistance to apoptosis in cancer. Up-to-date review articles, commentaries, and experimental papers are all welcome.

Programmed cell death or apoptosis is a natural mechanism by which organisms control the number of cells. It plays an important role in embryonic development and maintaining cell homeostasis. The deregulation of apoptosis machinery induces resistance to apoptosis. This resistance is characterized by the inhibition of cell death triggering or delay in cell death unfolding in response to an apoptotic stimulus. Apoptosis resistance plays an important role in tumor development. Uncontrolled cell proliferation combined with resistance to apoptosis is both necessary and sufficient for tumor progression to a malignant phenotype. Although there are several mechanisms by which cells escape apoptosis, the majority of these lead to an inability of the cell to trigger the intrinsic pathway of apoptosis (called the mitochondrial pathway).





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