Special Issue

Advances in Cell Death Pathways

Message from the Guest Editor

Human health is influenced by many external factors, ranging from cellular dysfunction such as oxidative stress. The intracellular redox potential influences cellular function, and its deregulation is associated with cell death, resulting in the development of various diseases. Reactive oxygen species (ROS) are free-radical or non-radical oxygen species that are characterized by high reactivity. In healthy cells, ROS occur at the physiological level because they are involved in many cellular processes, such as hormone secretion, drug removal, and detoxification or stimulation of the immune system. The overproduction of ROS can lead to oxidative stress, which can result in permanent changes in the cells, leading to the loss of protein function, which in turn can cause disease. Irreversible changes in the cell can severely disrupt entire metabolic pathways, leading to various types of cell death, such as apoptosis, ferroptosis, and necrosis.

Keywords
- cellular death
- oxidative stress
- apoptosis
- necrosis, ferroptosis

Guest Editor

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