

Special Issue

Molecular Research on Neuronal Cell Death and Neurogenesis

Message from the Guest Editor

Neurogenesis is the process by which cells of the nervous system, called neurons, are generated from neural stem cells (NSCs). In 1842, Karl Vogt first noted the requirement for physiological cell death when studying metamorphosis of amphibians. Neuronal death is normal during nervous system development but is abnormal in brain and spinal cord disease and injury. Neuronal cell death occurs extensively during development and pathology. We now know that neurons die in at least a dozen ways, including apoptosis and necrosis, etc. A better understanding of the molecular mechanisms of neuronal cell death in nervous system development, injury and disease can lead to new therapeutic approaches for the prevention of neurodegeneration and neurological disabilities and will expand the field of cell death biology.

The purpose of this special issue is to present the latest research on the molecular mechanisms of neuronal cell death and neurogenesis, and the available evidence suggesting a possible role of different forms of cell death in the pathogenesis of neurological diseases. Both original research articles and comprehensive reviews are welcomed.

Guest Editor

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