

## CELL CYCLE MECHANISMS AND NEURONAL CELL DEATH

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[Cell Cycle Events in Neurons - PubMed Central \(PMC\)](#) | The tight regulation of cell cycle control may intrinsically require an intimate coupling of the cell death mechanism in order to remove defective cells during the cell cycle, such that cell cycle checkpoints appear to link the cell cycle to apoptosis. 15 The cell cycle is typically divided into four phases: G1, S (DNA replication), G2, and M (mitosis), and it is the sequential expression and [Cell-Cycle Mechanisms and Neuronal Cell Death](#) | [SpringerLink](#)

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serves to gain new insights into the molecular determinants of neuronal death and to establish new targets for therapeutic intervention.

#### **The Cell Cycle and Neuronal Cell Death - ResearchGate**

A number of mechanisms have been proposed to contribute to the selective neuronal cell loss observed during Alzheimer disease (AD). These include the formation and accumulation of amyloid-beta

#### **Neuronal cell cycle: the neuron itself and its circumstances**

Cell cycle re-entry in neurons and apoptosis. Unlike most cell types, neurons are believed to have permanently blocked their capacity to proliferate once they are differentiated, being typically found in a quiescent state in the adult nervous system.

#### **Neuronal cell cycle - Wikipedia**

The Neuronal cell cycle represents the life cycle of the biological cell, its creation, reproduction and eventual death. The process by which cells divide into two daughter cells is called mitosis.

#### **The neuronal cell cycle as a mechanism of pathogenesis in ...**

pathogenic implications of a putative neuronal cell cycle are far from clear. Here, we discuss the notion of the neuronal cell cycle as a mediator of cell death, with particular emphasis on Alzheimer's disease.

#### **The cell cycle and cell death**

The cell cycle and cell death - Abortive entry into the cell cycle may be responsible for the programmed death, or apoptosis, of terminally differentiated cells such as neurons. Two of the basic cellular processes that have aroused most interest in the past few years - programmed cell death, or apoptosis, and cell-cycle control -, may be fundamentally interrelated. Apoptosis has recently

#### **Neuronal Cell Death - an overview | ScienceDirect Topics**

Mechanisms of neuronal cell death are cell type specific and stimulus specific (Heidenreich 2003; Yuan et al., 2003). The expression of and/or cell type-specific regulation of neuronal cell death pathways in postmitotic neurons are influenced by the expression of TFs that define that particular neuronal population.

#### **Cell Cycle and Neuronal Death (Neuroscience Intelligence ...**

The precise mechanism of action by which these drugs exert their neuroprotective effects is not known, but they

seem to affect both cell proliferation and survival.<sup>11</sup> In contrast to ionising radiation other DNA damaging agents, such as UV radiation and cytotoxic drugs, induce neuronal death via the activation of the cell division cycle and the cell death follows a mitotic catastrophe that can

#### JCI - Oxidative stress, cell cycle, and neurodegeneration

Although the mechanisms by which cell cycle reentry causes cell death are unknown, a direct link between cell cycle and neuronal death was recently made with the observation that CDC2, a cell cycle regulator, induces the phosphorylation and activation of BAD, a trigger of apoptosis .