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Titolo	Acute Neuronal Injury : The Role of Excitotoxic Programmed Cell Death Mechanisms / / edited by Denson G. Fujikawa
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ISBN	3-319-77495-6
Edizione	[2nd ed. 2018.]
Descrizione fisica	1 online resource (212 pages)
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Soggetti	Neurosciences Neurology Pathology Cytology Neurobiology Psychiatry Cell Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Excitotoxic programmed cell death involves caspase-independent mechanisms -- To survive or to die: how neurons deal with it -- Oxidative damage mechanisms in traumatic brain injury and antioxidant neuroprotective approaches -- Mitochondrial damage in traumatic CNS injury -- Neuroprotective agents target molecular mechanisms of programmed cell death after traumatic brain injury -- Involvement of apoptosis-inducing factor (AIF) in neuronal death following cerebral ischemia -- Apoptosis-inducing factor translocation to nuclei after transient global ischemia -- Necroptosis in cerebral ischemia -- Histological and elemental changes in ischemic stroke -- Hypoglycemic brain damage -- Activation of caspase-independent programmed pathways in seizure-induced neuronal necrosis -- Conclusion.
Sommario/riassunto	An overview of the biochemical mechanisms that produce acute nerve cell death in the brain. Covers injuries and disorders including stroke, brain and spinal cord trauma, hypoglycemic coma, and prolonged

epileptic seizures. All of these lead to high concentrations of calcium in nerve cells which, in turn, causes degradation of cytoplasmic proteins, cleavage of nuclear DNA, and eventually cell death. The Second Edition contains 11 thoroughly updated chapters and 3 additional chapters that did not appear in the previous edition.