Neuroprotective Signal Transduction (Contemporary Neuroscience)

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In Neuroprotective Signal Transduction prominent researchers and clinicians focus on how inter- and intracellular signaling mechanisms prevent the degeneration and death of neurons occurring in both acute and chronic neurodegenerative disorders. Authoritative contributions dissect the signaling pathways of an array of neuroprotective factors-ranging from neurotrophins (NGF, BDNF, NT-3, and NT-4/5), to growth factors (bFGF, IGF-1, GDNF), to cytokines (TNF, IL-1b, and TGFb), to secreted amyloid precursor proteins, to protease nexin-1. Also treated are cytoprotective signaling events that occur within injured neurons independently of intercellular signals. Neuroprotective Signal Transduction presents fundamental, cutting-edge treatment of the cellular and molecular signal transduction pathways found in human neurodegenerative conditions. The book's elucidation of the molecular cascades evolved by the nervous system to protect itself is now lead to effective strategies for preventing neuronal degeneration in such conditions as stroke, traumatic brain injury, Alzheimer's disease, Parkinson's disease, Huntington's disease, and amyotrophic lateral sclerosis, and will form the basis for powerful new drug discovery and gene therapy strategies.

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