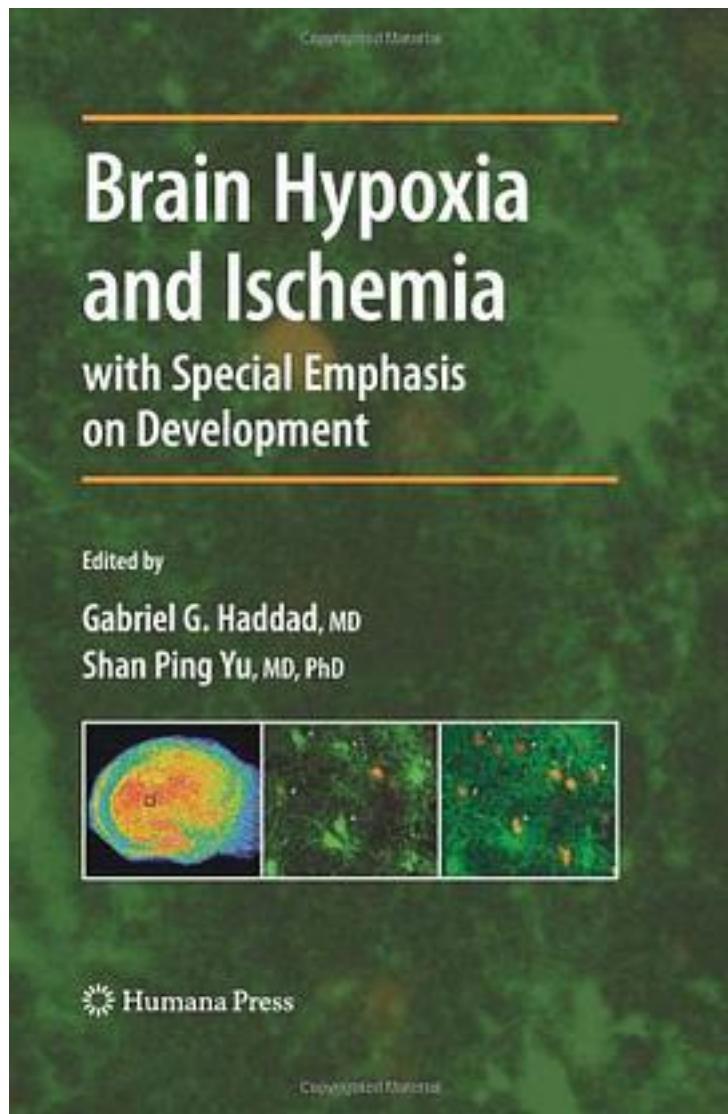


# Brain Hypoxia and Ischemia



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"Brain Hypoxia and Ischemia" explores the various aspects of cell death and survival that are crucial for understanding the basic mechanisms underlying brain hypoxia and ischemia. Chapters focus on a panorama of issues including the role of ion channels/transporters, mitochondria and apoptotic mechanisms, the roles of glutamate/NMDA, mechanisms in penumbral cells and the importance of intermittent hypoxia and gene regulation under these stressful conditions. The volume explores findings from both mammalian and invertebrate model systems and their applicability to human systems and diseases. Careful consideration is also given to differences in hypoxia and ischemia across development. This volume aims to increase the understanding of these mechanisms and to stimulate research on better diagnosis and treatment of diseases that afflict the brain and potentially other organs when O<sub>2</sub> levels are dysregulated. "Brain Hypoxia and Ischemia" is designed for neuroscientists, clinicians and medical/graduate students for use in both basic research and clinical practice.

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