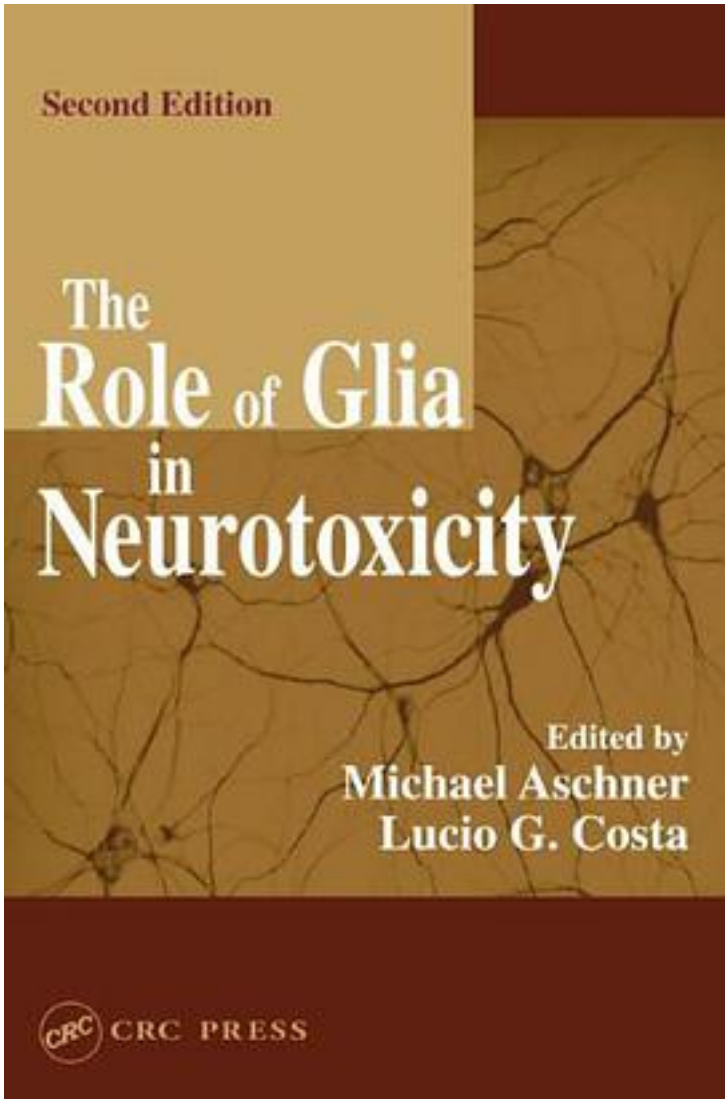
The Role of Glia in Neurotoxicity



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著者:Aschner, Michael

出版者:CRC Pr I Llc

出版时间:2004-12

装帧:HRD

isbn:9780849317941

Presenting the latest research in glial cell function gleaned from new techniques in imaging and molecular biology, The Role of Glia in Neurotoxicity, Second Edition covers multiple aspects of glial cells, including morphology, physiology, pharmacology, biochemistry, pathology, and their involvement in the pathophysiology of neurological diseases. The book is structured to examine the interactions between glial cells and neurons during development, adulthood, and senescence, followed by specific examples of directly mediated glial neurotoxicity. The book also covers miscellaneous topics in glial physiology/biochemistry such as signaling and edema. The book includes coverage of advances in our knowledge and understanding of glial physiology and biochemistry. Discover what's new in the Second Edition: Neuronal-glia metabolic interactions Neuronal-glia interactions (glutamate homeostasis)Zinc transporters in glia Energy deprivation/mitochondrial dysfunction - unique astrocyte susceptibilities Astrocytes and MPTP neurotoxicity Astroglia and food toxins Current understanding of the importance of glia has caused a boom in published information. Yet while many of the published textbooks are multifaceted and multidisciplinary, none includes the role of glia in neurotoxicity. Written by leaders in the field of glial research, this text fills this missing gap in the literature. Broader in scope than the first edition, including contributions from internationally known researchers, this is still the only book dedicated to exploring the role of glial cells in mediating neurotoxicology. Features Summarizes the latest research in glial cell function gleaned from new techniques in imaging and molecular biology Contains tables and figures that give you quick and easy access to precise data Includes a contemporary summary of literature that puts information useful for grant submissions at your fingertips Features new chapters covering metabolic interactions, glutamate homeostasis, transporters, energy deprivation/mitochondrial dysfunction, astrocytes, and food toxins Explores the role of glial cells in mediating neurotoxicity and incorporates information on specific effects of many compounds

作者介绍:

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