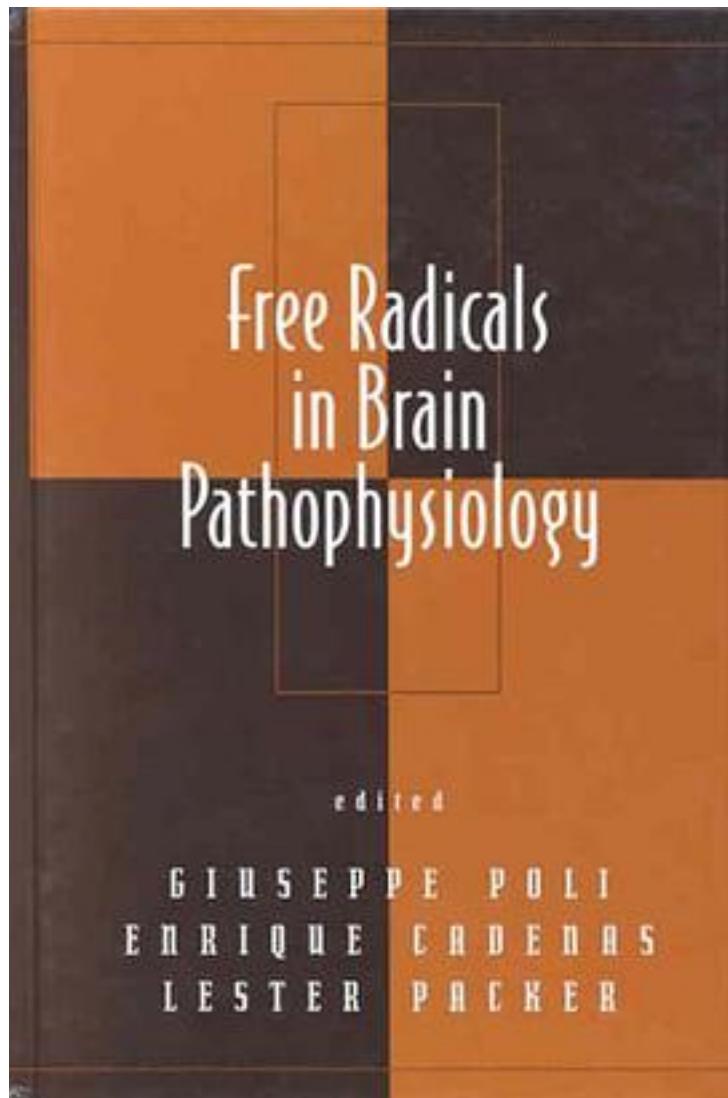


Free Radicals in Brain Pathophysiology (Oxidative Stress and Disease)



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著者:Giuseppe Poli

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This volume provides an authoritative, comprehensive view of the most current issues in brain pathophysiology and offers a critical evaluation of antioxidant-based therapeutic approaches to neurodegeneration, providing an up-to-date account of the role of antioxidants in the prevention and moderation of clinical symptoms. It examines free radicals in spinal cord damage, subarachnoid hemorrhage, reperfusion damage, and cytotoxicity! With over 2400 references, tables, drawings, photographs, and micrographs, "Free Radicals in Brain Pathophysiology" focuses on important biological signaling molecules such as superoxide anion and nitric oxide, evaluates the action of low levels of oxygen- and nitrogen-centered radicals on cell membranes and receptors to modulate signal transduction pathways and gene expression, links high mitochondrial density in neural tissue to brain disease, considers how prions and -amyloid proteins influence the level of free radicals within cells, assesses the abnormalities of superoxide dismutase in the familial form of amyotrophic lateral sclerosis, and highlights the occurrence of oxidative stress and the impact of oxidative injury in brain physiology and neurodegeneration, and more! With contributions from nearly 70 internationally recognized researchers, physiologists, and clinicians who describe their latest findings and provide new insights into the factors underlying neurological disorders, Free Radicals in Brain Pathophysiology is an unsurpassed reference for nutritionists and dietitians, clinical neurologists, pathologists, cell biologists and biochemists, cardiologists, oncologists, dermatologists, and graduate and medical school students in these disciplines.

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