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Nota di contenuto Neuroprotection Models, Mechanismsand Therapies; Preface; Contents; List of Contributors; I Neurological Disorders - Epidemiology, Clinical Overview, and Model Systems; 1 Stroke; Abstract; 1.1 Introduction; 1.2 The Penumbra Concept; 1.3 Excitotoxicity; 1.4 Oxygen Free Radicals; 1.5 Tissue Acidosis; 1.6 Peri-infarct Depolarizations; 1.7 Inflammation; 1.8 Damage to the Blood-Brain-Barrier; 1.9 Programmed Cell Death and Apoptosis; 1.10 Ischemia-induced DNA Damage, DNA Repair, and p53 as Genotoxic Sensor; 1.11 Epigenetics; 1.12 Gene Expression; 1.13 Cell Replacement
1.14 Endogenous Neuroprotection - Ischemic Tolerance1.15 Stroke Induced Immune Depression (SIDS); 1.16 Conclusion; References; 2 Parkinson's Disease; 2.1 Epidemiology of Parkinson's Disease; 2.1.1 Genetic Contribution; 2.1.2 Environmental Factors; 2.2 Oxidative Stress In Parkinson's Disease; 2.3 Role of Alpha-Synuclein in Parkinson's Disease; 2.3.1 Alpha-Synuclein in Lewy Bodies; 2.3.2 Alpha-Synuclein and Oxidative Stress; 2.4 The Involvement of Proteosome in PD; 2.4.1 Parkin Involvement in PD; 2.5 Other Genes Involved in Familial Parkinson's Disease; 2.6 Neurotoxic PD Models

Sommario/riassunto	In this first book to cover model systems, molecular mechanisms and clinical trials all in one volume internationally renowned scientists and clinicians provide a comprehensive treatment of neuroprotective strategies for all important neurological disorders.Following an overview of neurodegenerative, traumatic, and ischemic disorders, the book goes on to cover in vitro and animal model systems as well as cellular and molecular mechanisms. An extremely helpful analysis of clinical studies explains reasons for their success and failure, and the whole is rounded off with a look at the current