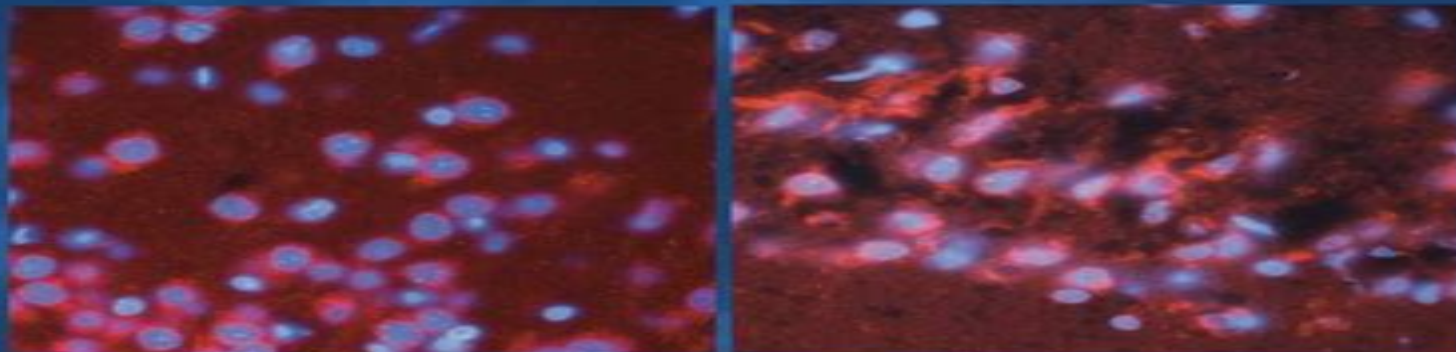


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Editor

Acute Neuronal Injury

**The Role of Excitotoxic
Programmed Cell Death
Mechanisms**



 Springer

Acute Neuronal Injury The Role Of Excitotoxic Programmed Cell Death Mechanisms

**Yinong Huang, Cheong-Meng
Chong, Haiqing Zheng, Wenqiang Chen**



Acute Neuronal Injury The Role Of Excitotoxic Programmed Cell Death Mechanisms:

Acute Neuronal Injury Denson G. Fujikawa, 2018 This book is the result of a convergence of scientific information regarding mechanisms that produce acute nerve cell death in the brain Although seemingly disparate stroke brain and spinal cord trauma coma from a low serum glucose concentration hypoglycemia and prolonged epileptic seizures have in common the inciting factor of excitotoxicity the activation of a specific subtype of glutamate receptor by an elevated extracellular glutamate concentration that results in an excessive influx of calcium into nerve cells The high calcium concentration in nerve cells activates several enzymes that are responsible for degradation of cytoplasmic proteins and cleavage of nuclear DNA resulting in nerve cell death The high calcium concentration also interferes with mitochondrial respiration with the resultant production of free radicals that damage cellular membranes and nuclear DNA Understanding the biochemical pathways that produce nerve cell death is the first step toward devising an effective neuroprotective strategy the ultimate goal

Acute Neuronal Injury Denson G. Fujikawa, 2018-07-05 An overview of the biochemical mechanisms that produce acute nerve cell death in the brain Covers injuries and disorders including stroke brain and spinal cord trauma hypoglycemic coma and prolonged epileptic seizures All of these lead to high concentrations of calcium in nerve cells which in turn causes degradation of cytoplasmic proteins cleavage of nuclear DNA and eventually cell death The Second Edition contains 11 thoroughly updated chapters and 3 additional chapters that did not appear in the previous edition

The Central Nervous System in Pediatric Critical Illness and Injury Derek S. Wheeler, Hector R. Wong, Thomas P. Shanley, 2008-12-23 Neurologic emergencies are a common reason for admission to the pediatric intensive care unit PICU A thorough understanding of the diseases and disorders affecting the pediatric central nervous system is vital for any physician or healthcare provider working in the PICU In the following pages an international panel of experts provides an in depth discussion on the resuscitation stabilization and ongoing care of the critically ill or injured child with central nervous system dysfunction Once again we would like to dedicate this textbook to our families and to the physicians and nurses who provide steadfast care every day in pediatric intensive care units across the globe Derek S Wheeler Hector R Wong Thomas P Shanley v Preface to Pediatric Critical Care Medicine Basic Science and Clinical Evidence The field of critical care medicine is growing at a tremendous pace and tremendous advances in the understanding of critical illness have been realized in the last decade My family has directly benefited from some of the technological and scientific advances made in the care of critically ill children My son Ryan was born during my third year of medical school By some peculiar happenstance I was nearing completion of a 4 week rotation in the newborn intensive care unit NICU

Immunological Mechanisms and Therapies in Brain Injuries and Stroke Jun Chen, Xiaoming Hu, Mary Stenzel-Poore, John H. Zhang, 2013-11-09 Recent research has revealed the importance of immunological mechanisms and inflammation in delaying damage and or promoting repair after an acute injury to the central nervous system This book provides a comprehensive and up to date overview of the role of immunological mechanisms and

therapies for treating acute neurological injuries such as cerebral ischemia hemorrhage and brain and spinal cord trauma In several sections the contributing authors provide a review of immunological mechanisms involved in neurological injury and of various translational and clinical research aimed at harnessing those mechanisms for better patient outcomes

Mechanisms of Organ Dysfunction in Critical Illness Timothy W. Evans, Mitchell P. Fink, 2012-12-06 The pathophysiology of sepsis can be regarded as a series of steps beginning with the invasion of normally sterile tissue by microbes and the elaboration of various pro inflammatory mediators The final common pathway is often the development of the multiple organ dysfunction syndrome MODS Whereas a great deal has been learned during the past quarter century about the inflammatory processes associated with sepsis and other related conditions such as ischemia reperfusion injury our understanding is far less developed with respect to the pathophysiological events that lead to organ dysfunction under these conditions Nevertheless efforts by both clinical and laboratory scientists are leading to new knowledge in this area The chapters in this volume provide a state of the art overview of many aspects of the pathophysiology of organ dysfunction in critical illness

Pediatric Critical Care Medicine Derek S. Wheeler, Hector R. Wong, 2007 This new textbook is the definitive evidence based resource for pediatric critical care It is the first ostensibly evidence based pediatric critical care textbook and will prove an invaluable resource for critical care professionals across the globe *Traumatic Brain Injury, Part I* Jordan H. Grafman, Andres M. Salazar, 2015-02-19 The Handbook of Clinical Neurology volume on traumatic brain injury TBI provides the reader with an updated review of emerging approaches to traumatic brain injury TBI research clinical management and rehabilitation of the traumatic brain injury patient Chapters in this volume range from epidemiology and pathological mechanisms of injury and neuroprotection to long term outcomes with a strong emphasis on current neurobiological approaches to describing the consequences and mechanisms of recovery from TBI The book presents contemporary investigations on blast injury and chronic traumatic encephalopathy making this state of the art volume a must have for clinicians and researchers concerned with the clinical management or investigation of TBI Internationally renowned scientists describe cutting edge research on the neurobiological response to traumatic brain injury including descriptions of potential biomarkers and indicators of potential targets for treatments to reduce the impact of the injury Explores cellular and molecular mechanisms as well as genetic predictors of outcome Offers coverage of various diagnostic tools CT MRI DDTI fMRI EEG resting functional imaging and more State of the art traumatic brain injury management and treatment principles are presented for both civilian and military care *Epilepsy and Alzheimer's disease: shared pathology, clinical presentations, and targets for treatment* Beth Leeman-Markowski, Jeannie Chin, Dominique Leitner, Keith Vossel, 2024-09-30 Emerging data suggest a link between Alzheimer's disease AD and epilepsy AD and other dementias pose increased risk for seizures with seizure incidence in AD up to ten times greater than in age matched controls Mouse models of AD also demonstrate seizures and abnormal spikes or sharp wave discharges interictal epileptiform discharges IEDs on

electroencephalography EEG Seizures and IEDs may underlie fluctuating cognitive abilities in AD with the impact of antiseizure medication ASM requiring further investigation Many epilepsy patients have memory and other cognitive deficits due to multiple factors Most adult onset epilepsy occurs in people 60 years of age and epilepsy patients are at increased risk of developing dementia Hyperphosphorylated tau and amyloid deposits were found in resected temporal lobe tissue of epilepsy patients similar to AD and increased total and phosphorylated tau levels in the cerebrospinal fluid may predict the onset of AD and other dementias The mechanisms underlying the associations between AD epilepsy tau deposition and beta amyloid plaques and their relationships to clinical features are unknown Some epilepsy patients develop dementia and some AD patients develop seizures while others do not Analyses of resected tissue in epilepsy patients also suggest variable amyloid and tau deposition across patients and studies Who is at risk What does shared pathology indicate regarding disease development progression and treatment Better understanding of the associations between epilepsy and dementia with respect to epidemiology pathophysiology genetics clinical presentations and treatment approaches based on animal models and human studies is needed to optimize patient care Insight into the relationship between epilepsy and AD requires various approaches including tissue analysis imaging genetic techniques cognitive testing and electroencephalography in animals and humans We welcome manuscripts that span these approaches including original research articles brief research articles clinical trials case reports reviews systematic reviews mini reviews methods articles hypothesis and theory articles perspectives and opinions Themes may include Diagnosis e g seizure or interictal discharge detection in dementia patients distinguishing comorbid dementia from epilepsy related cognitive dysfunction Epidemiology e g incidence and prevalence of comorbid AD and epilepsy occurrence of epilepsy in other dementias seizure types age or stage of onset Genetic risk factors Pathophysiology underlying seizure generation in AD and cognitive decline in epilepsy Treatment approaches e g effects of ASMs on cognitive decline impact of disease modifying AD treatments on seizures neurostimulation What can be learned from other disorders in which cognitive deficits and seizures are common i e traumatic brain injury

Essentials of

Apoptosis Xiao-Ming Yin,Zheng Dong,2009-07-01 This is the second edition of the comprehensive concise summary of apoptosis research It covers the major concepts molecular architecture the biochemical pathways and pathophysiological significance of apoptosis This book provides a guideline of standard biochemical and cell biologic approaches to apoptosis bench work with an emphasis on translational clinical applications for immune disorders cancer research ischemia and neuronal degeneration Since the original publication in 2003 the apoptosis field has expanded rapidly chapters not only need to be revised and expanded but there is a need for all new chapters covering exciting advances in bioinformatics systems biology oxidative stress etc

Encyclopedia of the Neurological Sciences ,2014-04-29 The Encyclopedia of the Neurological Sciences Second Edition Four Volume Set develops from the first edition covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology neurosurgery psychiatry and other

related areas of neuroscience The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field Entries are designed to be understandable without detailed background knowledge in the subject matter and cross referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding The easy to use encyclopedic dictionary format of the Encyclopedia of the Neurological Sciences Second Edition features alphabetic entries extensive cross referencing and a thorough index for quick reference The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers from undergraduate students to academic researchers Provides comprehensive coverage of the field of neurological science in over 1 000 entries in 4 volumes Encyclopedic dictionary format provides for concise readable entries and easy searching Presents complete up to date information on 32 separate areas of neurology Entries are supplemented with extensive cross referencing useful references to primary research articles and an extensive index

Neurological Disorders Thomas Brandt, 2003-01-03 This single volume reference covers the natural course treatment and management of all neurological diseases affecting the brain spinal cord nerves and muscles This comprehensive text reference seeks to assist physicians with treatment by providing an easy to use compendium covering the treatment and management of all neurological diseases along with details on the natural course of these diseases Organized for ease of use and quick reference each chapter presents a neurological disorder or key symptoms and systematically discusses the clinical syndrome and differential diagnosis natural course principles of therapy and practical management of each Covers wide range of neurological conditions and potential treatments including the evidence for and against each treatment Describes the spontaneous course of neurological diseases along with discussion of the management of different stages and variants of a disorder Presents special situations and exceptional cases in which alternative therapies should be considered

Brain Injury Medicine Nathan D. Zasler, Douglas I. Katz, Ross Zafonte, DO, 2007 Covers the full continuum from early diagnosis and evaluation through rehabilitation post acute care and community re entry Includes assessment and treatment epidemiology pathophysiology neuroanatomy neuroimaging the neuroscientific basis for rehabilitation ethical and medicolegal issues life care planning and more

Swaiman's Pediatric Neurology - E-Book Kenneth F. Swaiman, Stephen Ashwal, Donna M Ferriero, Nina F Schor, 2011-11-11 Swaiman's Pediatric Neurology by Drs Kenneth Swaiman Stephen Ashwal Donna Ferriero and Nina Schor is a trusted resource in clinical pediatric neurology with comprehensive authoritative and clearly written guidance Extensively updated to reflect advancements in the field this fifth edition covers new imaging modalities such as pediatric neuroimaging spinal fluid examination neurophysiology as well as the treatment and management of epilepsy ADHD infections of the nervous system and more The fully searchable text is now available online at www.expertconsult.com along with downloadable images and procedural videos demonstrating intraventricular hemorrhage and white matter injury making this an indispensable multimedia resource in pediatric

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Diffusion-Weighted MR Imaging of the Brain Toshio Moritani, Sven Ekholm, Per-Lennart A. Westesson, 2009-08-03 Few advances in MR imaging have had the impact degenerative neurologic disorders white matter d that dif usion weighted DW imaging has had in the cases toxic metabolic disorders and tumors As one evaluation of brain From the time of the early de can easily see from the table of contents the authors scriptions by LeBihan and colleagues of the ability have systematically covered all major areas of neu to image and measure the micromovement of water radiology T is will allow cross referencing to pr molecules in the brain to the present time dif usion lematic cases which one may encounter Additionally imaging and its derivatives have made an impact in knowledge of what represents a normal adult brain the evaluation of multiple disease processes primar and a normal developing brain along with an exp ily in ischemia but also in other conditions of the nation of artifacts seen in DW imaging makes this a brain In most medical centers dif usion imaging is valuable book It is noteworthy that the authors have no longer considered a sequence to be used in spe chosen to abundantly illustrate the clinical material cial circumstances but rather it is employed as part drawing on pathologic correlations in a number of of routine MR imaging of the brain Because the in areas

The Cell Cycle in the Central Nervous System Damir Janigro, 2008-01-23 Cell Cycle in the Central Nervous System overviews the changes in cell cycle as they relate to prenatal and post natal brain development progression to neurological disease or tumor formation Topics covered range from the cell cycle during the prenatal development of the mammalian central nervous system to future directions in postnatal neurogenesis through gene transfer electrical stimulation and stem cell introduction Additional chapters examine the postnatal development of neurons and glia the regulation of cell cycle in glia and how that regulation may fail in pretumor conditions or following a nonneoplastic CNS response to injury Highlights include treatments of the effects of deep brain stimulation on brain development and repair the connection between the electrophysiological properties of neuroglia cell cycle and tumor progression and the varied immunological responses and their regulation by cell cycle

Muscle Pain: Understanding the Mechanisms Siegfried Mense, Robert D. Gerwin, 2010-06-21 This edition of the companion volumes Muscle Pain Understanding the Mech isms and

Muscle Pain Diagnosis and Treatment is essential reading for those interested in clinical approaches to acute and chronic pain conditions involving muscle tissues and in the mechanisms underlying these conditions. The volumes cover a very important topic in pain medicine since muscle pain is very common and can often be difficult to diagnose and treat effectively. Furthermore, chronic pain involving muscle and other components of the musculoskeletal system increases with age such that it is a common complaint of those of us who are middle aged or older. Indeed, as changing population demographics in westernized countries result in higher proportions of the population living longer and being middle aged and elderly, chronic muscle pain will likely become even more of a health problem. In the case of acute muscle pain, this can often be very intense and in the short term can limit or modify the use of components of the musculoskeletal system associated with the sensitive muscle. Chronic muscle pain can also be intense as well as unpleasant and disabling, and it is in many cases the overriding symptom of most musculoskeletal disorders that are associated with long term deleterious changes in musculoskeletal function.

Acute Stroke Anish Bhardwaj, Nabil J. Alkayed, Jeffrey R. Kirsch, Richard J. Traystman, 2006-09-18. As the third leading cause of death in the United States, stroke accounts for one in every fifteen deaths and is the major cause of disability in the country. Compiled by a renowned editorial team, this reference bridges the gap between basic science and patient care protocols and collects 43 expertly written chapters that range from laboratory basic science to clinical applications. **Cumulated Index Medicus**, 1993

Post-Stroke Complications: Mechanisms, Diagnosis, and Therapies Yinong Huang, Cheong-Meng Chong, Haiqing Zheng, Wenqiang Chen, 2023-10-25. Critical Care Medicine Michael James Murray, 2002. This authoritative reference published under the auspices of the American Society of Critical Care Anesthesiologists (ASCCA) is now in its Second Edition. More than 100 internationally recognized experts present state-of-the-art strategies for successful, cost-effective perioperative care and management of acutely ill patients. This thoroughly revised edition features many distinguished new contributors from anesthesiology, critical care medicine, internal medicine, surgery, and pediatrics. Timely new chapters cover medical informatics, evidence-based medicine, human genomics, research in critical care medicine, and imaging in the ICU. Chapters on acute respiratory distress syndrome, sepsis, and other diseases have been rewritten to reflect recent technological and therapeutic breakthroughs.

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