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Editors

Generalized Epilepsy

Neurobiological Approaches

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Generalized Epilepsy Neurobiological Approaches

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Generalized Epilepsy Neurobiological Approaches:

Generalized Epilepsy AVOLI,2012-12-06 In recent years there has been intense interest in the basic mechanisms of epilepsy Many symposia and monographs have been devoted to this topic These reviews however have focused almost exclusively on studies performed in models of partial or focal epilepsy It was natural that scientists interested in the fundamental mechanism of epileptogenesis at the cellular level were attracted to work on models in which the epileptogenic dysfunction could be confined to ever smaller populations of neurons Many of the most illuminating studies done in this field in the recent past have been carried out in vitro on brain slices or on dissociated neuronal cultures Much valuable insight into the mechanisms of epileptogenesis has been obtained in this manner One cannot however automatically assume that mechanisms elucidated in such exquisitely focal models are applicable to forms of epilepsy in which seizures from their very start involve the entire brain One of the most difficult questions that arises in this context is how epileptogenic dysfunction which can be understood in terms of mechanisms involving a few contiguous cells can lead to what appears to be a simultaneous onset of seizure discharge in virtually all areas of the brain Most of the workers who have made excellent contributions to the understanding of the cellular mechanisms involved in epileptogenesis have paid virtually no attention to this important problem

Generalized Epilepsy Massimo Avoli,1990-01-01 Generalized Non-Convulsive Epilepsy: Focus on GABA-B Receptors C. Marescaux,M. Vergnes,R. Bernasconi,2013-03-08 Generalized non convulsive epilepsy GNCE also called absence or petit mal epilepsy is a disease appearing during childhood EEG clinical pharmacological and genetic characteristics differ from those of convulsive or focal epilepsies No underlying structural or biochemical abnormality has been identified for generalized absence seizures and the etiology of this disorder is unknown It is unlikely that the precise pathophysiology of GNCE can be resolved in studies that focus on humans Therefore a number of animal models reproducing the human disease have been developed The aim of this supplementum is to characterize such models in rodents First recent models are extensively described These include the genetic model of spontaneous GNCE in Strasbourg s Wistar rats and in tottering mice as well as bilateral spike and wave discharges induced by GHB PTZ or GABA mimetics Second this supplementum will also provide very recent information on putative mechanisms underlying generalized absence seizures Third various experimental approaches aimed at investigating the neural substrate of this particular kind of epilepsy are described with various electrophysiological pharmacological biochemical metabolic ionic and molecular data This supplementum provides an original multidisciplinary approach to the mechanisms involved in GNCE and demonstrates that rodent models are a promising tool which complements the classical feline penicillin model *Jasper's Basic Mechanisms of the Epilepsies* Jeffrey Noebels,Massimo Avoli,Michael Rogawski,Richard Olsen,Antonio Delgado-Escueta,2012-06-01 H H Jasper A A Ward A Pope and H H Merritt chair of the Public Health Service Advisory Committee on the Epilepsies National Institutes of Health published the first volume on Basic Mechanisms of the Epilepsies BME in 1969 Their ultimate goal was to

search for a better understanding of the epilepsies and seek more rational methods of their prevention and treatment Since then basic and clinical researchers in epilepsy have gathered together every decade and a half with these goals in mind assessing where epilepsy research has been what it has accomplished and where it should go In 1999 the third volume of BME was named in honor of H H Jasper In line with the enormous expansion in the understanding of basic epilepsy mechanisms over the past four decades this fourth edition of Jasper s BME is the most ambitious yet In 90 chapters the book considers the role of interactions between neurons synapses and glia in the initiation spread and arrest of seizures It examines mechanisms of excitability synchronization seizure susceptibility and ultimately epileptogenesis It provides a framework for expanding the epilepsy genome and understanding the complex heredity responsible for common epilepsies as it explores disease mechanisms of ion channelopathies and developmental epilepsy genes It considers the mechanisms of conditions of epilepsy comorbidities And for the first time this 4th edition describes the current efforts to translate the discoveries in epilepsy disease mechanisms into new therapeutic strategies This book considered the bible of basic epilepsy research is essential for the student the clinician scientist and all research scientists who conduct laboratory based experimental epilepsy research using cellular brain slice and animal models as well as for those interested in related disciplines of neuronal oscillations network plasticity and signaling in brain structures that include the cortex hippocampus and thalamus In keeping with the 1969 goals the book is now of practical importance to the clinical neurologist and epileptologist as the progress of research in molecular genetics and modern efforts to design antiepileptic drugs cures and repairs in the epilepsies converge and impact clinical care

Integrated Neuroscience and Neurology Elliott M.

Marcus, Stanley Jacobson, Thomas D. Sabin, 2014-08-22 Integrated Neuroscience argues that in order to make an intelligent diagnosis and provide a rational treatment nervous system disorders it is necessary to answer the basic questions of clinical neurology Where is the disease process located and what is the nature of the disease process For students to answer these questions the authors first review the makeup of the cells within the central nervous system and the development of the regions within the central nervous system A detailed anatomical overview of the nervous system starting at the spinal cord proceeding to the brain stem diencephalon and cerebrum follows This textbook focuses not only on localized diseases caused by infectious diseases trauma tumors and vascular lesions within the central nervous system but also these diseases within the systems of the brain and spinal cord Over 250 real cases with associated MRI or CTs and any pathological findings from these patients illustrate numerous disorders and fully explain the nature of the pathology The authors have also included six problem solving sessions in which the student must identify the ongoing disease process what caused it and how best to treat it Throughout the discussion in this text the authors also correlate the neurological findings to the underlying anatomy of the region

Drugs for the Control of Epilepsy Carl L. Faingold, Gerhard H. Fromm, 2019-06-04

Originally published in 1991 This book brings together the ideas of an international group of experts on clinical and experimental epilepsy These authors

consider how antiepileptic drugs may act on elements of neuronal networks to reduce seizure incidence and severity The book addresses such topics as the four general classes of anticonvulsant drug mechanisms major epilepsy models the proposed mechanisms of action of major antiepileptic drugs and the clinical use of antiepileptic drugs in the treatment of various forms of human epilepsy This volume is special for its focus on the neuronal network approach to epilepsy as well as for its comprehensive review and integration of human and animal data Neurologists pharmacologists psychiatrists and other investigators actively working on epilepsy research will find this book to be a useful thought provoking reference volume

Textbook of Stereotactic and Functional Neurosurgery Andres M. Lozano, Andres M.. Lozano, Philip L.

Gildenberg, Ronald R. Tasker, 2009-06-22 This volume covers stereotactic principles and functional stereotaxis Amongst the stereotactic principles are discussions of frame based and frameless systems of stereotaxis image guidance stereotaxis atlases and the technical aspects of radiosurgery Within functional neurosurgery disorders covered include the diagnosis and management of pain epilepsy movement disorders and the rediscovered field of surgery for psychiatric disorders The Biomedical Engineering Handbook Joseph D. Bronzino, Donald R. Peterson, 2018-10-03 The definitive bible for the field of biomedical engineering this collection of volumes is a major reference for all practicing biomedical engineers and students Now in its fourth edition this work presents a substantial revision with all sections updated to offer the latest research findings New sections address drugs and devices personalized medicine and stem cell engineering Also included is a historical overview as well as a special section on medical ethics This set provides complete coverage of biomedical engineering fundamentals medical devices and systems computer applications in medicine and molecular engineering

Computational Neurology and Psychiatry Péter Érdi, Basabhatta Sen Bhattacharya, Amy L. Cochran, 2017-01-25 This book presents the latest research in computational methods for modeling and simulating brain disorders In particular it shows how mathematical models can be used to study the relationship between a given disorder and the specific brain structure associated with that disorder It also describes the emerging field of computational psychiatry including the study of pathological behavior due to impaired functional connectivity pathophysiological activity and or aberrant decision making Further it discusses the data analysis techniques that will be required to analyze the increasing amount of data being generated about the brain Lastly the book offers some tips on the application of computational models in the field of quantitative systems pharmacology Mainly written for computational scientists eager to discover new application fields for their model this book also benefits neurologists and psychiatrists wanting to learn about new methods

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1993 *Advances in Clinical Neurophysiology* Ihsan Ajeena, 2012-10-17 Including some of the newest advances in the field of neurophysiology this book can be considered as one of the treasures that interested scientists would like to collect It discusses many disciplines of clinical neurophysiology that are currently crucial in the practice as they explain methods and findings of techniques that help to improve diagnosis and to

ensure better treatment While trying to rely on evidence based facts this book presents some new ideas to be applied and tested in the clinical practice *Advances in Clinical Neurophysiology* is important not only for the neurophysiologists but also for clinicians interested or working in wide range of specialties such as neurology neurosurgery intensive care units pediatrics and so on Generally this book is written and designed to all those involved in interpreting or requesting neurophysiologic tests

The Treatment of Epilepsy Elaine Wyllie,Ajay Gupta,Deepak K. Lachhwani,2006 Serving as a reference on the epilepsies this fourth edition provides an overview of seizure disorders and contemporary treatment options It brings together the vital work in the neurosciences genetics electroencephalography pediatric and adult neurology neuropharmacology neurosurgery and psychiatry It also talks about epilepsy surgery

Neuroengineering Daniel J. DiLorenzo,Joseph D. Bronzino,2007-12-07 Based on a foundation of science and empirical observation engineering research and design has brought science fiction into science fact The convergence of neuroscience and technology is facilitating the development of therapies that not long ago would have seemed unimaginable if not impossible With contributions from pioneers in industry acad

Advances and Technical Standards in Neurosurgery F. Cohadon,V. V. Dolenc,J. Lobo Antunes,J. D. Pickard,H.-J. Reulen,M. Sindou,A. J. Strong,N. de Tribolet,C. A. F. Tulleken,M. Vapalahti,2012-12-06 As an addition to the European postgraduate training system for young neurosurgeons we began to publish in 1974 this series of *Advances and Technical Standards in Neurosurgery* which was later sponsored by the European Association of Neurosurgical Societies This series was first discussed in 1972 at a combined meeting of the Italian and German Neurosurgical Societies in Taormina the founding fathers of the series being Jean Brihaye Bernard Pertuiset Fritz Loew and Hugo Krayenbühl Thus were established the principles of European co operation which have been born from the European spirit flourished in the European Association and have throughout been associated with this series The fact that the English language is well on the way to becoming the international medium at European scientific conferences is a great asset in terms of mutual understanding Therefore we have decided to publish all contributions in English regardless of the native language of the authors All contributions are submitted to the entire editorial board before publication of any volume Our series is not intended to compete with the publications of original scientific papers in other neurosurgical journals Our intention is rather to present fields of neurosurgery and related areas in which important recent advances have been made The contributions are written by specialists in the given fields and constitute the first part of each volume

Models of Seizures and Epilepsy Asla Pitkänen,Paul Buckmaster DVM PhD,Aristea S Galanopoulou,Solomon L. Moshé,2017-06-14 *Models of Seizures and Epilepsy* Second Edition is a valuable practical reference for investigators who are searching for the most appropriate laboratory models to address key questions in the field The book also provides an important background for physicians fellows and students offering insight into the potential for advances in epilepsy research as well as R D drug development Contents include the current spectrum of models available to model different epilepsy syndromes epilepsy in transgenic animals

comorbidities in models of epilepsy and novel technologies to study seizures and epilepsies in animals Provides a comprehensive reference detailing animal models of epilepsy and seizure Offers insights on the use of novel technologies that can be applied in experimental epilepsy research Edited by leading experts in the field that provide not only technical reviews of these models but also conceptual critiques Comments on the strengths and limitations of various models including their relationship to clinical phenomenology and their value in developing better understanding and treatments

The Evolutionary Neuroethology of Paul MacLean Gerald A. Cory Jr., Russell Gardner Jr., 2002-12-30 In the mid 20th century integrative efforts began concerning the brain and its social and humanistic functions These efforts were led by Paul D MacLean s integrative research and thought As the century ended however such efforts were lost in the surge of new effort in brain and genome research Nobel Prizes were awarded on biochemical and cellular findings relevant to psychiatry Findings on these levels seemed to provide ultimate answers By contrast Cory Gardner and their contributors provide a more comprehensive view by extending MacLean s findings and integrative theory Supported by new findings and extended by critical analyses of current work the collection provides foundations for more integrative efforts that the editors and contributors believe will prevail increasingly in coming decades Looked at from another vantage point therapeutic social economic and political sciences have proceeded without operating theories congruent with or based on brain functions Across species perspectives have been lacking This collection redresses this problem and leads the way toward more comprehensive 21st century research on the one hand and practical applications on the other Multiple approaches extend from modeling efforts to across species comparisons to the basic science of psychiatry to theoretical explanations of political and economic systems But most important these essays abolish the Berlin wall that currently separates the brain from its social functions A major guide for scholars students and researchers involved in the neurobehavioral sciences for psychologists psychiatrists and others involved with human clinical sciences and for social scientists concerned with the impact of the nervous system and its function

Epilepsy, Part I: Basic Principles and Diagnosis Hermann Stefan, William H. Theodore, 2012-11-29 Volume 2 This book provides a full description of epilepsy pathology and etiology antiepileptic drug treatment the approach to surgical evaluation and alternative procedures to be considered in both children and adults as well as brain stimulation and diet treatment Economic and psychosocial issues such as stigma are fully covered The special problems of epilepsy treatment in the developing world are described Chapters are authored by internationally respected neurologists with varied perspectives insuring depth to the content Ed

Gamma-Hydroxybutyrate Godfrey Tunnicliff, Christopher D. Cash, 2002-08-01 Gamma hydroxybutyrate GHB has come a long way since early experiments in animals where it was found to induce a sleep like state and from its use in general anaesthesia in human subjects It has been found to be a naturally occurring compound in the brain a metabolite of GABA the emerging ubiquitous inhibitory neurotransmitter This has opened

Genetics and the Electroencephalogram Friedrich Vogel, 2012-12-06 Preface This book describes problems and results of

research in the gap between two fields Human genetics and clinical neurophysiology Whenever I talked about my research on the genetics of the EEG the answer of human geneticists was Very interesting but I do not understand anything about the EEG On the other hand EEG specialists usually remark Very interesting but I do not understand anything about human genetics This is why I wrote this book It tries to summarize results my own and from some others and to point to problems In the from researc light of the recent progress especially in human molecular genetics this field of research promises deep insights into biological mechanisms of brain function as well as genetic variation involved in mental performance and personality of humans However the logistic problems of such studies are not easy to overcome It is necessary to study carefully ascertained population samples either of normal persons or of persons selected for phenotypic characteristics that are not easy to diagnose Moreover EEG diagnosis and classification must be very specific and is not trivial at all All these problems require careful preparations at various levels long lasting efforts and patience Of this I am sure however The results would justify the efforts I am too old to plan such a program myself moreover as an emeritus professor I do not have the means for such studies

Biomedical Engineering Fundamentals Joseph D. Bronzino,Donald R. Peterson,2006-04-14

Over the last century medicine has come out of theblack bag and emerged as one of the most dynamic and advanced fields of development in science and technology Today biomedical engineering plays a critical role in patient diagnosis care and rehabilitation As such the field encompasses a wide range of disciplines from biology and physiolog

The Top Books of the Year Generalized Epilepsy Neurobiological Approaches The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Generalized Epilepsy Neurobiological Approaches : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Generalized Epilepsy Neurobiological Approaches : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Generalized Epilepsy Neurobiological Approaches : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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