The Clinical Neurobiology Of The Hippocampus An Integrative View

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One of your neighbors posted in Business. Click through to read what they have to say. (The views expressed in this post are the author's own.) ...

Diagnostic Biochips Welcomes Scott Smith as VP of Sales

Though mindfulness programs offer promising treatment paths for many, tools for researchers to examine their potential pitfalls have remained underdeveloped, according to Willoughby Britton, director ...

Brown neuroscience lab devises novel guidelines to measure, study negative effects of mindfulness-based meditation

Here's The Petri Dish, a roundup of news that may get overlooked amid the influx of Greater Boston life sciences and health care happenings. Robotic surgery Y Combinator startup Zeta Surgical, a ...

The Petri Dish: Robotic surgery, Flagship-backed startup hit by clinical hold

Ribon Therapeutics broke three years of radio silence back in early 2019 to spread the word of its $65 million Series B round. Now, two and a half years later, the company's lead PARP inhibitor has ...

Ribon Therapeutics is looking to break the mold for PARP inhibitors and has a slate of Big Pharma backers on board

Six-million-dollar grant will enable the launch of a new UI Hawkeye Intellectual and Developmental Disabilities Research Center, or Hawk-IDDRC.

New University of Iowa center focuses on autism diagnosis, intervention and prevention

Researchers have developed a sensor that can be implanted anywhere in the body, for example under the tip of a severed finger; the sensor connects to another nerve that functions properly and restores ...

Technology that restores the sense of touch in nerves damaged as a result of injury

Actipulse Neuroscience, a medical company advancing neuromodulation treatments worldwide, today announces it has begun a fundraising ...

Actipulse Neuroscience Begins a Public Fundraising to Finance FDA Pivotal Trial of Proprietary Neuromodulation Medical Device

Physicians, residents, fellows, and other healthcare professionals need to be updated about new advances in the clinical and research areas for the diagnosis, treatment, and management of patients ...

Clinical Neuroscience Grand Rounds

Jones and B. J. Casey 18. Magnetic resonance spectroscopy: methods and applications in developmental clinical neuroscience Marisa M. Silveri, Deborah Yurgelun-Todd and Perry Renshaw 19. Diffusion ...

Neuroimaging in Developmental Clinical Neuroscience

We reserve the right to close applications if the course is full. Learn about cutting-edge cognitive neuroscience techniques and their application to research in clinical and cognitive neuroscience.

MSc Neuroimaging for Clinical & Cognitive Neuroscience

The UAB Comprehensive Neuroscience Center (CNC) is a network of more than 450 UAB Neuroscience research faculty, clinicians, staff, students, and trainees. Our membership is comprised of neuroscience ...

Promoting and supporting interdisciplinary neuroscience research, clinical care, and education at UAB

The Department of Neuroscience comprises multidisciplinary groups working in both basic and clinical neuroscience and is mostly located within the Sheffield Institute for Translational Neuroscience ...

Academic clinical fellowships in the Department of Neuroscience
About the Global Neuroscience Research and Development ... tau also correlate with the progression of symptomatology and clinical decline in patients with AD. Recent publications suggest that ...

Prothena Announces Bristol Myers Squibb Opt-in of Anti-Tau PRX005 as the First Program from Global Neuroscience Research and Development Collaboration
and providing clinical decision-support through innovative visualization at the bedside. Our mission has been is to provide a forum for multidisciplinary collaboration between the computational ...

The Reinberger Neuroscience Intensive Care Unit
A virtual meeting of clinical neurosciences to celebrate research and clinical achievements at the Brain Centre. The symposium is an opportunity for us to showcase the wide range of high quality ...

The Bristol Brain Centre Symposium: Putting research at the heart of clinical practice
Featuring Our Corporate News Recap on "Cerevel Therapeutics Sees Positive Results for CVL-231 in Phase 1b Clinical Trial " Cerevel ...

"The Buzz" Show: Cerevel Therapeutics (NASDAQ: CERE) Results for CVL-231 in Phase 1b Clinical Trial
Our MSc in Neuroimaging for Clinical and Cognitive Neuroscience will provide you with the theoretical and practical skills required to carry out high-quality cognitive brain imaging work in healthy ...

The hippocampus is one of the most studied structures in the human brain and plays a pivotal role in human memory function. Its recognized function is reflected by the presence of an extensive body of neurophysiological, neuropsychological, anatomical and neurocomputational literature that presents basic mechanisms, theoretical models and psychological concepts. However, in the rapidly growing field of hippocampal research, the clinical aspects of diseases that affect the hippocampus are greatly under-represented in current literature, and clinical approaches and concepts are scattered throughout various clinical and basic scientific disciplines. The Clinical Neurobiology of the Hippocampus explores clinical approaches to the range of diseases that affect the hippocampus. It brings together and reviews the common methods, clinical findings, concepts, mechanisms and, where applicable, therapeutic strategies for these clinical approaches. The clinical spectrum of hippocampal dysfunction encompasses a wide range of neurological, behavioural and psychiatric symptoms and surpasses the ability to encode, store and retrieve information. The relevance of hippocampal involvement in clinical diseases goes beyond mere neuropsychological deficits and includes psychopathological states in various conditions, such as acute amnesic syndromes, Alzheimer's disease, temporal lobe epilepsy (TLE), sleep, stroke medicine, limbic encephalitis, neurodevelopmental disorders, stress- and trauma-related disorders, depression, and schizophrenia. The first part of the book covers the basic and integrative features of the hippocampus, such as the anatomy and imaging of this structure, and the basic mechanisms of hippocampal function, including the principles of hippocampus-dependent memory processing in amnesia and sleep, the mechanisms of vulnerability and adult neurogenesis as well as the effects of stress. The second part covers the various clinical manifestations in which the hippocampus is involved and in which the preceding basic mechanisms are reflected. Bringing together a broad team of experts on the basic and clinical aspects of the hippocampus, the book provides an integrative view of the hippocampus. It is invaluable for neurologists, neuroscientists, and psychiatrists, and will stimulate interdisciplinary discussions in clinical neuroscience.

The hippocampus is one of the most intriguing structures of the human brain. Damage to this part causes symptoms ranging from transient disorders accompanied by tiny lesions to severely debilitating cognitive disorders with marked tissue loss. This publication provides a predominantly clinical approach to the complex workings of the hippocampus from different perspectives, ranging from basic principles to specific diseases. The first part of the book summarizes current knowledge regarding the structure and physiology of the hippocampus and establishes the ties to basic neuroscience. The second part deals with the function and assessment of the human hippocampus, including memory function, neuropsychological measures, and conventional and functional imaging studies. The chapters of the third part are devoted to the hippocampus in neurological disorders, e.g. the interaction between stress and memory function, and the pathological conditions of common as well as selected rare neurological diseases affecting the hippocampus. The book is highly recommended to clinical neurologists who wish to gain a broad understanding of this complex and fascinating organ in terms of basic principles, modern imaging findings, and specific diseases.

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Is chronic fatigue syndrome an early process of muscle aging? Is fibromyalgia a central pain state? This book covers the latest developments in pain research as presented at the Fifth World Congress on Myofascial Pain (MYOPAIN 2001). It examines the results of a wide scope of basic and applied research on soft-tissue pain, with a strong focus on therapeutic approaches. Its three main sections explore the neurobiology of central sensitization, regional pain syndromes, and chronic widespread pain. In addition, this well-referenced book presents a fascinating chapter on the complex relationship between muscle pain and aging. Handy graphs, charts, and illustrations make the information easy to assimilate. The Clinical Neurobiology of Fibromyalgia and Myofascial Pain: Therapeutic Implications contains up-to-date information on: the brain?s reactions to states of persistent pain the physical aftermath of torture ways to define and address the emotional distress that commonly observed in chronic pain patients the mechanisms and manifestations of muscle hyperalgesia the pathophysiology of inflammatory muscle pain regional muscle pain syndromes state-of-the-art information on the pathophysiology of visceral pain and visceral-somatic pain representations a case study of a physical therapy approach to fibromyalgia using Myofascial trigger points the epidemiology of widespread pain and its development after injuries syndromes that share overlapping clinical features with fibromyalgia the connection between HPA dysfunction, ANS dysfunction, and fibromyalgia the plasticity of excitatory synaptic transmission in the spinal dorsal horn and its role in the pathogenesis of pain hypersensitivity how the central mechanisms of pain transmission relate to pharmacological systems that are responsible for generating central sensitization states what PET and MRI show us about the role that the cerebral cortex plays in the perception and modulation of pain

The last fifteen years have produced an explosion of research on the neurobiology of attachment.

Bringing the latest breakthroughs in neuroscience to the clinician, this text provides resident and practicing psychiatrists with a comprehensive, clinically relevant overview of the brain mechanisms underlying behavior and mental illness. The book presents an integrated perspective on the structures and workings of the brain, the mechanisms governing behaviors such as pleasure, aggression, and intelligence, and the pathophysiology of mental disorders. More than 200 two-color illustrations clarify key concepts. Questions and answers at the end of each chapter facilitate review and board preparation. Readers will also have online access to the complete, fully searchable text and a quiz bank of over 150 questions at www.neuroscienceofclinicalpsychiatry.com.

The textbook's original structure has not changed. It remains anchored in the methods that neurologists utilize on a daily basis to approach, diagnose, and treat patients.

This book provides a clear and readable introduction to the central concepts of clinical neuroscience. The first part of the book deals with fundamental areas of neuroscience required for a sound understanding of brain disease. This is followed by an account of the neurobiology of the most common and important brain diseases of the western world (stroke, epilepsy, Alzheimer's disease, Parkinson's disease and multiple sclerosis). The book is in the same general style as the successful Crossman: Neuronatomy with extensive colour illustrations.

This is a special proceedings - "Frontiers in Clinical Neuroscience: 2002" - held in Abel Lajtha's honor. Professor Lajtha is a well-known supporter of Hungarian science and he is celebrating his 80th birthday this year. Professor Vecsei is the secretary for the European Society for Clinical Neuropharmacology and the Danube Symposium for Neurological Sciences. The proceedings will focus on neurodegeneration and neuroprotection, two current topics in clinical and experimental neuroscience.

The United States Congress has designated the 1990s as the "Decade of the Brain" in recognition of the major importance of neurology and the other neurosciences in the health and well-being of Americans. It has been suggested that as many as 20% of all patients seeking medical treatment have neurologic problems, either as the presenting complaint or as an associated condition complicating the primary illness. Thus, it is fitting that Springer-Verlag should acknowledge the prominence of this medical specialty area by devoting an entire volume of the Oklahoma Notes series to neurology and clinical neuroscience. Of course, this text is an outline overview and does not attempt to provide ency clopedic coverage of neurology (the student desiring a comprehensive review of the field may wish to seek in the library the 60 + volumes in the series Handbook of Clinical Neurology edited by Pierre J. Vinken and George W. Bruyn). However, the information selected for inclusion in this volume of the Oklahoma Notes series remains true to the goal of the whole series-only materials vital in both the general clinical practice of medicine and to answer questions on the all-important United States Medical Licensing Examination have been incorporated in the text. Roger A. Brumback, M.D.