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KEY=AND - ERICK VIRGINIA

Neuroprotective Therapy for Stroke and Ischemic Disease

Neuroprotective Therapy for Stroke and Ischemic Disease

Springer A critical and comprehensive look at current state-of-the-art scientific and translational research being conducted internationally, in academia and industry, to address new ways to provide effective treatment to victims of ischemic and hemorrhagic stroke and other ischemic diseases. Currently stroke can be successfully treated through the administration of a thrombolytic, but the therapeutic window is short and many patients are not able to receive treatment. Only about 30% of patients are "cured" by available treatments. In 5 sections, the proposed volume will explore historical and novel neuroprotection mechanisms and targets, new and combination therapies, as well as clinical trial design for some of the

recent bench-side research.

Therapeutic Intranasal Delivery for Stroke and Neurological Disorders

Springer The blood-brain-barrier serves to encapsulate and protect the central nervous system, but it also presents a major barricade to therapeutic drug delivery. Poor penetration is the most common hurdle to translating a promising experimental therapy that uses invasive delivery methods to a clinically useful application. In the last 10 years, intranasal delivery of various therapeutic compounds including small chemicals, large proteins, and even stem cells has proven to be very effective in bypassing the blood-brain-barrier and has led to some important advances in translational research for stroke and other neurological diseases. The proposed book will bring together reports from various labs around the world who have had successes in pre-clinical studies of intranasal therapies for various diseases including adult and perinatal stroke, Alzheimer's, Parkinson's, and others.

White Matter Injury in Stroke and CNS Disease

Springer Science & Business Media White matter injury can result from both ischemic and hemorrhagic stroke as well as a host of other CNS diseases and conditions such as neonatal injuries, neurodegenerative disorders including Alzheimer's disease, traumatic brain injuries, carbon monoxide poisoning, and drug or alcohol overdoses. The extent of white matter injury is extremely important to patient outcomes. Several recent technological developments including advanced neuroimaging and the breeding of new rodent models of white matter injury have provided growing insight into initial damage and repair after a stroke or other damaging event. The proposed book will be the first to provide a systematic expert summary of normal white matter morphology as well as white matter injury following stroke and other CNS injuries.

Metal Ion in Stroke

Springer Science & Business Media Stroke is a major cause of death and disability in the U.S. and worldwide. A variety of pathophysiologic episodes or cellular medications occur following a stroke, and knowledge of these aftermath events can lead to potential therapeutic strategies that may reverse or attenuate stroke injury. Cellular events that occur following stroke include the excessive releases of excitatory amino acids, alterations in the genomic responses, mitochondrial injury producing reactive oxygen

and nitrogen species (ROS), and secondary injury, often in the setting of reperfusion.

Cellular and Molecular Approaches to Regeneration and Repair

Springer This book discusses recent advances in the field of translational stroke research. The editors have designed the book to provide new insight into the importance of regeneration and repair mechanisms for stroke victims. The editors have brought together a talented group of international stroke researchers and clinicians to contribute to this volume, which is written for students, researchers and physicians in biotechnology, neurosciences, neurology, neuroradiology and neurosurgery. Throughout the world, stroke is still a leading cause of mortality and morbidity; there are 152,000 strokes in the United Kingdom, 62,000 in Canada, and approximately 15 million people worldwide. Large communities of stroke survivors are eagerly awaiting scientific advances in translational stroke research related to regeneration and recovery of function that would offer new therapeutics for rehabilitation and regeneration utilizing novel stem cell and molecular-based approaches. This volume will allow the reader to understand the future of stroke treatment from its inception in the laboratory through to clinical trial design. The reader will learn about the recent advances made in these areas related to basic and applied stroke research and their translational potential. Dr. Paul A. Lapchak is Professor of Neurology and Director of Translational Research in the Departments of Neurology & Neurosurgery at Cedars-Sinai Medical Center in Los Angeles CA, USA. Dr. Lapchak is an internationally recognized expert conducting translational drug development research for ischemic and hemorrhagic stroke. Dr. John H. Zhang is Professor of Anesthesiology, Neurosurgery, Neurology, and Physiology, and Director, Center for Neuroscience Research at Loma Linda University School of Medicine, Loma Linda, CA, USA. Dr. Zhang is an internationally recognized expert working on drug development for hemorrhagic stroke.

Non-Neuronal Mechanisms of Brain Damage and Repair After Stroke

Springer This book provides a comprehensive overview of the latest research in the role of non-neuronal cells - astrocytes, oligodendrocytes, endothelial cells, pericytes, microglia, and other immune cells in ischemic brain injury and long-term recovery. In these cases, neurodegeneration and brain repair are controlled in a sophisticated system, incorporating interactions between different cell types and cellular systems. Also

explored are the therapeutic strategies that target non-neuronal responses after stroke and their translational potentials.

Cerebral Venous System in Acute and Chronic Brain Injuries

Springer Provides important information from anatomy to pathophysiology and covers most neurological disorders that involve venous circulation. Venous circulation has not been extensively studied and we know relatively little about cerebral venous circulation. Venous circulation contributes to half of the brain circulation and about 70% of the blood in the brain is venous blood. Veins and venules play extremely important roles in brain circulation especially during pathologies such as brain edema, BBB disruption, elevation of intracranial pressure during and after ischemic and hemorrhagic stroke events, traumatic brain injury, neurodegenerative disorders, in adults and newborns. Occlusion of veins or sinuses by thrombus, compression of veins and venules by tumor and edematous tissues, elevation of venous pressure during cranial hypertension, all lead to fatal insults such as venous infarction and hemorrhage.

Cerebral Ischemic Reperfusion Injuries (CIRI)

Bench Research and Clinical Implications

Springer This volume is focused on subjects related to cerebral ischemia and reperfusion injuries after acute stroke. All chapters are selected from the Sixth Elite Stroke meeting named Pangu Stroke Conference and written by members of world leading laboratories of stroke studies. The contents cover both clinical and bench studies, from basic components of cerebral arterial system to clinical reperfusion injury cases, from reperfusion caused programmed cell death and astrocyte activation to oxidative stress and nitric oxide after reperfusion, from extracellular matrix and inflammation to a role of diabetes after reperfusion, from small artery disorders to collateral circulation and blood pressure control after reperfusion. **Wei-Jian Jiang**, Chairman of New Era Stroke Care and Research Institute of PLA Rocket Force General Hospital, Beijing, China. **Wengui Yu**, Professor and Director of Comprehensive Stroke & Cerebrovascular Center, University of California, Irvine **Yan Qu**, Professor and Director of Neurosurgery at the

Second Affiliated Hospital of Air Force Medical University, Xi'an, China. Zhongsong Shi, Professor of Neurosurgery at Sun Yat-sen Memorial Hospital, Sun Yat-sen University, Guangzhou, China. Ben-yan Luo, Professor and Chair of Neurology at the First Affiliated Hospital of Zhejiang University. John H. Zhang, Professor of Anesthesiology and Physiology at Loma Linda University School of Medicine, Loma Linda, CA, USA.

Immunological Mechanisms and Therapies in Brain Injuries and Stroke

Springer Science & Business Media 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.

Hemorrhagic Stroke: New Insights for the Healthcare Professional: 2013 Edition ScholarlyPaper

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ACCCN's Critical Care Nursing

Elsevier Health Sciences With each edition, ACCCN's Critical Care Nursing has built on its highly respected reputation. Its contributors aim to encourage and challenge practising critical care nurses and students to develop world-class critical care nursing skills in order to ensure delivery of the highest quality care. Endorsed by the Australian College of Critical Care Nurses (ACCCN), this 3rd edition presents the expertise of foremost critical care leaders and features the most recent evidence-based research and up-to-date advances in clinical practice, technology, procedures and standards. Expanded to reflect the universal core elements of critical care nursing practice authors, Aitken, Marshall and Chaboyer, have retained the specific information that captures the unique elements of contemporary critical care nursing in Australia, New Zealand and other similar practice environments. Structured in three sections, ACCCN's Critical Care Nursing, 3rd Edition addresses all aspects of critical care nursing, including patient care and organisational issues, while highlighting some of the unique and complex aspects of specialty critical care nursing practice, such as paediatric considerations, trauma management and organ donation. Presented in three sections: - Scope of Critical Care - Principles and Practice of Critical Care - Speciality Practice Focus on concepts that underpin practice - essential physical, psychological, social and cultural care New case studies elaborate on relevant care topics Research vignettes explore a range of topics Practice tips highlight areas of care particularly relevant to daily clinical practice Learning activities support knowledge, reflective learning and understanding Additional case studies with answers available on evolve NEW chapter on Postanaesthesia recovery Revised coverage of metabolic and nutritional considerations for the critically ill patient Aligned with the NEW ACCCN Standards for Practice

Vascular Diseases—Advances in Research and Treatment: 2013 Edition

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Innate Tolerance in the CNS Translational Neuroprotection by Pre- and Post-Conditioning

Springer Science & Business Media Cerebral preconditioning is a phenomenon wherein a mild insult or stress induces cellular and tissue adaptation or tolerance to a later, severe injury, therefore reflecting the efficacy of endogenous mechanisms of cerebrovascular protection. Initially identified for rapid cardiac protection, preconditioning has expanded to all aspects of CNS protection from ischemia, trauma and potentially neurodegeneration. Many different stimuli or stressors have been identified as preconditioning agents, suggesting a downstream convergence of mechanisms and underscoring the potential for translational application of preconditioning in the clinic. Moreover, the fundamental mechanisms responsible for preconditioning-induced tolerance will help in the design novel pharmacological approaches for neuroprotection. While stroke and many other brain injuries are not predictable, in some populations (e.g., metabolic syndrome, patients undergoing carotid endarterectomy, aneurysm clipping, or with recent TIAs) the risk for stroke is identifiable and significant, and preconditioning may represent a useful strategy for neuroprotection. For unpredictable injuries, post-conditioning the brain - or inducing endogenous protective mechanisms after the initial injury - can also abrogate the extent of injury. Finally, remote pre- and post-conditioning methods have been developed in animals, and are now being tested in clinical trials, wherein a brief, noninjurious stress to a noncerebral tissue (i.e., skeletal muscle) can provide protection to the CNS and thereby allows clinicians the opportunity to circumvent concerns regarding the direct preconditioning of neurological tissues.

Nervous System Diseases—Advances in Research and Treatment: 2013 Edition

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Von Willebrand Diseases: New Insights for the Healthcare Professional: 2013 Edition ScholarlyBrief

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Cell Biology and Translational Medicine, Volume 11

Stem Cell Therapy - Potential and Challenges

Springer Nature Much research has focused on the basic cellular and molecular biological aspects of stem cells. Much of this research has been fueled by their potential for use in regenerative medicine applications, which has in turn spurred growing numbers of translational and clinical studies. However, more work is needed if the potential is to be realized for improvement of the lives and well-being of patients with numerous diseases and conditions. This book series 'Cell Biology and Translational Medicine (CBTMED)' as part of SpringerNature's longstanding and very

successful **Advances in Experimental Medicine and Biology** book series, has the goal to accelerate advances by timely information exchange. Emerging areas of regenerative medicine and translational aspects of stem cells are covered in each volume. Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas. This current book is the tenth volume of a continuing series.

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Cell Therapy Against Cerebral Stroke

Comprehensive Reviews for Translational Researches and Clinical Trials

Springer This book presents comprehensive reviews for both translational research and clinical trials on cell therapy for stroke. Cerebral stroke is still

a leading cause of death and disability. However, despite intensive research, few treatment options are available. The therapeutic potential of cell transplantation has been studied for various pathological conditions of the central nervous system (CNS) including traumatic brain injury, traumatic spinal cord injury, degenerative disease, demyelinating disease and ischemic stroke, as the injured neural tissue in the CNS has only a limited regenerative capacity. Recently, a growing body of evidence in this field suggests that cell transplantation holds great potential as a form of stroke therapy. The authors, who are experts in the field of neurosurgery, review and discuss optimal cell sources and various issues involved in translational research; further, they outline ongoing clinical trials in Japan.

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Clinical Pathways in Stroke Rehabilitation Evidence-based Clinical Practice

Recommendations

Springer Nature This open access book focuses on practical clinical problems that are frequently encountered in stroke rehabilitation. Consequences of diseases, e.g. impairments and activity limitations, are addressed in rehabilitation with the overall goal to reduce disability and promote participation. Based on the available best external evidence, clinical pathways are described for stroke rehabilitation bridging the gap between clinical evidence and clinical decision-making. The clinical pathways answer the questions which rehabilitation treatment options are beneficial to overcome specific impairment constellations and activity limitations and are well acceptable to stroke survivors, as well as when and in which settings to provide rehabilitation over the course of recovery post stroke. Each chapter starts with a description of the clinical problem encountered. This is followed by a systematic, but concise review of the evidence (RCTs, systematic reviews and meta-analyses) that is relevant for clinical decision-making, and comments on assessment, therapy (training, technology, medication), and the use of technical aids as appropriate. Based on these summaries, clinical algorithms / pathways are provided and the main clinical-decision situations are portrayed. The book is invaluable for all neurorehabilitation team members, clinicians, nurses, and therapists in neurology, physical medicine and rehabilitation, and related fields. It is a World Federation for NeuroRehabilitation (WFNR) educational initiative, bridging the gap between the rapidly expanding clinical research in stroke rehabilitation and clinical practice across societies and continents. It can be used for both clinical decision-making for individuals and as well as clinical background knowledge for stroke rehabilitation service development initiatives.

Neurotechnology, Electronics, and Informatics

Revised Selected Papers from Neurotechnix 2013

Springer The International Congress on Neurotechnology, Electronics, and Informatics (NEUROTECHNIX) took place in Algarve, Portugal in September of 2013. The congress provided a meeting point of academics and clinical and engineering professionals, promoting translational discussions on how research and technology can meet the needs of clinical practitioners and patients. NEUROTECHNIX emphasized research and application of neurotechnologies to various neurological disorders, including

neuromuscular diseases, Parkinson's disease, developmental disorders, dementia, epilepsy, sleep disorders, Multiple Sclerosis, neuroinfections, brain tumors, stroke, traumatic brain injuries, Cerebral Palsy, spinal cord injury and vision and hearing disorders. Authors were invited to submit innovative research work that highlighted new advancements of neurotechnology. Papers describing case studies, advanced prototypes, systems, tools and techniques and general survey papers indicating future directions were encouraged. This book contains a limited selection of extended and revised versions of the best papers presented at the congress, by regular and keynote speakers.

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Brain Hypoxia and Ischemia: New Insights Into Neurodegeneration and Neuroprotection

Frontiers Media SA

Spinal Cord Injury: New Insights for the Healthcare Professional: 2013 Edition

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Advances in Blood Transfusion Research and Application: 2013 Edition

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Translational Research in Stroke

Springer This book mainly discusses the current status of stroke transnational research and allows the reader to understand the interplay of common comorbidities in the stroke population such as diabetes and hypertension, and provides insight into stroke targets to promote cell survival, angiogenesis, neurogenesis, and most importantly, functional recovery after stroke. Throughout the world, stroke is still a leading cause of mortality and morbidity; each year approximately 15 million people worldwide suffer from stroke. Stroke is now the leading cause of death and disability in China. Large communities of stroke survivors are eagerly awaiting scientific advances in transnational stroke research that would offer neuroprotective therapeutics for acute stroke management, or rehabilitation and regenerative strategies utilizing novel stem cell-based approaches. While research is ongoing, the Editors have compiled this volume to help the further understanding of the pathophysiology of stroke and to review and identify future potential biomarkers. The book is written for students, researchers and physicians in neurosciences, neurology and neuroradiology.

Good Research Practice in Non-Clinical Pharmacology and Biomedicine

Springer Nature This open access book, published under a CC BY 4.0 license in the Pubmed indexed book series **Handbook of Experimental Pharmacology**, provides up-to-date information on best practice to improve experimental design and quality of research in non-clinical pharmacology and biomedicine.

Childhood and Adolescence: Voyages in Development

Cengage Learning Walking you chronologically from infancy through the teen years, Rathus' **CHILDHOOD AND ADOLESCENCE: VOYAGES IN DEVELOPMENT**, Seventh Edition, helps you understand how developmental theories and research apply to everyday life. Interspersing personal and humorous stories with the latest research, theory and real-world practice, the author captures the wonder of child and adolescent development while portraying the field of development as the rigorous science that it is. The new edition integrates hundreds of new references and relevant information from the DSM-5 of the American Psychiatric Association, including changes to substance use disorders, autism spectrum disorders and attention deficit hyperactivity disorder. Maximizing your success, the PQ4R method of learning and studying -- preview, question, read, reflect, relate and review -- is used throughout. **Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

Involvement of Bioactive Peptides in the Control of Cell Survival, Proliferation and Plasticity in Physiological and Pathological

Conditions, 2nd Edition

Frontiers Media SA Publisher's note: In this 2nd edition, the following article has been added: "Editorial: Involvement of Bioactive Peptides in the Control of Cell Survival, Proliferation and Plasticity in Physiological and Pathological Conditions"