Manual Of Stroke Models In Rats

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during the last few years exciting new insights into mechanisms and treatment of stroke have been obtained from animal experiments hence the use of animal models to induce stroke are of paramount importance as research tools while a few articles on this topic have been published in select journals until now there has not been a systematic tech

a quantitative and qualitative comparison of contemporary neuroprotection and thrombolytic stroke trials and their preclinical animal counterparts has been undertaken with meta analysis dersimonian and laird 1986 used to evaluate imaging and histological outcomes results from 35 clinical trials including 5 532 patients were compared with data from 3 145 pre clinical acute stroke experiments in 45 476 animals while clinical trials tended to be of higher methodological quality and have larger sample sizes than animal experiments 71 patients vs 7 animals per group both were similarly underpowered owing to the greater variability in human stroke average standard deviation of mean in humans 99 v 30 in animals proportionally animal infarcts were almost four times larger than human infarcts in untreated control groups 27 v 8 of the hemisphere although there was considerable variability in size owing to comorbidities and stroke type eighty six percent of animal studies and 54 of clinical trials reported smaller infarcts in groups receiving treatment with 41 of clinical trials reporting an improvement in the pre specified hypothesis animal experiments were not effective in predicting individual trial results nor the level of neuroprotection however there was a fair agreement between the direction of the animal and clinical outcomes when looking at the overall direction of drug outcome as a drug screening tool experimental stroke studies need refinement rational frameworks for translational research will help

this book summarizes various tools and techniques used to provide insights into the cellular and

molecular pathophysiology of stroke it also presents rodent animal models to help shed light on the pathophysiology of ischemic stroke presenting the latest information on the different types of stroke including embolic filament photothrombotic and bilateral common carotid artery the book also describes techniques that are used for confirmation of stroke surgery such as laser speckle imaging lsi and laser doppler flowmetry ldf and discusses the non human primates that are used in stroke surgery cerebral venous sinuous thrombosis and neurobehavioral assessment lastly it analyzes various neuroprotective agents to treat and prevent ischemic stroke and examines the challenges and advances in treating and preventing acute ischemic stroke

in view of the numerous failures of clinical trials aimed at improving stroke therapy the role and potential benefit of experimentally modeling focal cerebral ischemia in rodents has been debated when methods of systematic review and metaanalyis are applied however it turns out that experimental models actually faithfully predicted the negative outcomes of clinical trials in addition thrombolysis and neuroprotection by hypothermia first described in animal models are key examples of treatment modalities that have made it successfully into clinical practice in rodent models of stroke an international consortium of authors aims at critically addressing the issues on a very practical level from choosing the model and outcome measures designing the experiment conducting and analyzing it to reporting it in a scientific publication the structure and content of the book reflect both the authors longstanding expertise in experimental and clinical stroke research and their roles in training the scientific community in the tools of the trade as a volume in the successful neuromethods series the chapters provide authoritative reviews of the most commonly used well honed approaches in the field today stimulating and easy to use rodent models of stroke will help its readers understand the limitations and the opportunities of modeling stroke in rodents and enable them to conduct experiments which will not only improve our understanding of the pathophysiology of this devastating disorder but also serve as the basis for developing new highly effective treatments

hardbound although there has been much research on the pathobiochemistry and pathophysiology of stroke at the present time its therapeutic treatment is far from satisfactory this symposium was organized to bring together authorities from various parts of the world to discuss both in vivo and in vitro models of cerebrovascular disease only by developing suitable

models will it be possible to research and develop new drugs to help to prevent strokes in those patients who are thought to be most at risk

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this two volume work gathers together the diverse information presently available on spontaneous animal models of human disease in addition to providing a comprehensive review of existing models the book presents many previous unpublished new models the scope of this work is limited to spontaneous models neoplasia infectious diseases including parasitism and nutritionally induced or other types of experimental models have not been included the sixteen parts of the book are alphabetically arranged according to organ system with over 230 authors contributing to the overall effort in addition to many illustrations the book features an extensive bibliography

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

stroke including ischemic stroke and hemorrhagic stroke is the major leading cause of death in the united states more than 80 percent of stroke patients are diagnosed with ischemic stroke which usually results from blockage of artery in the brain by thrombosis or arterial embolism animal models which permit powerful genetic and molecular approaches provide an essential tool to study and understand the basic processes and potential therapeutic interventions for this disease significant efforts have been made to closely mimic the changes that occur in humans during and after stroke using animal models recent development on near infrared nir diffuse optical tomography dot has been made to non invasively image the changes of hemoglobin concentrations in human and animal brains dot is an attractive approach for evaluating and investigating stroke physiology it can provide hemodynamic images of animal stroke with a potential for continuous noninvasive monitoring at different stages of ischemic stroke my research focuses on examining continuous wave cw dot to study cerebral ischemia in rat models this work consists two main parts in the first part a ccd camerabased dot system was built for animal measurements the system was calibrated and validated by computer simulations as well as by the laboratory tissue like phantoms the recently developed depth compensation algorithm was introduced to help the depth localization and image quality in three dimensional diffuse optical image reconstructions another image reconstruction method globally convergent method developed by a group of our collaborators was briefly introduced laboratory phantom measurements showed the ability of ccd camera based dot to image small perturbation in tissue mimic phantoms demonstrating that the system has a great potential to image heterogeneity in biological tissues such as ischemic stroke in the rat brain however this ccd camera based dot failed to produce good quality images when being used in actual rat ischemic stroke models this failure may result from the non contact ccd camera approach which is more sensitive or weighted toward surface reflection signals with a smaller portion of diffuse light detected in the second part of my work a fiber based cw dot system was alternatively utilized to investigate two commonly used rat ischemic stroke models suture and embolism models volumetric images of changes in oxy hemoglobin concentration due to ischemic stroke were successfully

reconstructed with improved spatial resolution using a rat brain atlas also quantification of changes in cerebral blood flow cbf during and after cerebral ischemia is crucial because ischemic tissues may be recovered or dead depending on different levels of blood perfusion since cw dot measures only changes of hemoglobin concentrations an indocyanine green icg tracking technique was introduced to determine corresponding cbf results from the two rat stroke models show that with an interleaved approach changes of hemoglobin concentrations and of cbf during as well as after stroke can be simultaneously determined using the fiber based dot system in this way i was able to show and identify therapeutic outcomes of a thrombolytic treatment given to the embolism induced ischemic model furthermore resting state functional connectivity rsfc was also investigated to reveal lesion induced neuronal connection disruption during stroke and tissue recovery after stroke final analysis shows loss of bilateral rsfc after cerebral ischemia followed by partial rsfc recovery during the reperfusion phase

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