

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

animal models of diseases play a pivotal role in drug discovery and development not only for proof of the concept studies of efficacy pk pd relationship but also for drug safety assessment since considerable differences in variables exist between animal models and human models such as genetics physiology anatomy gene expression heterogeneity of disease conditions etc not all the preclinical models are able to represent the pathophysiological conditions in human diseases therefore partly due to the lack of congruency between animal and human disease models several proposed therapeutic agents in the past decades have been demonstrated to be effective in preclinical models but failed in clinical studies this e book focuses on animal models of diseases from a translational perspective and highlights the key advantages and limitations of each model described to facilitate drug discovery and development a unique feature of the volume is that it contains a selection of details disease models in various therapeutic niches with significant unmet medical needs including inflammation neurological diseases cardiovascular and metabolic diseases and oncology this e book is therefore of considerable value to researchers and clinicians involved in drug discovery and development as well as pathology

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

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

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

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 metaanalysis 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

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

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