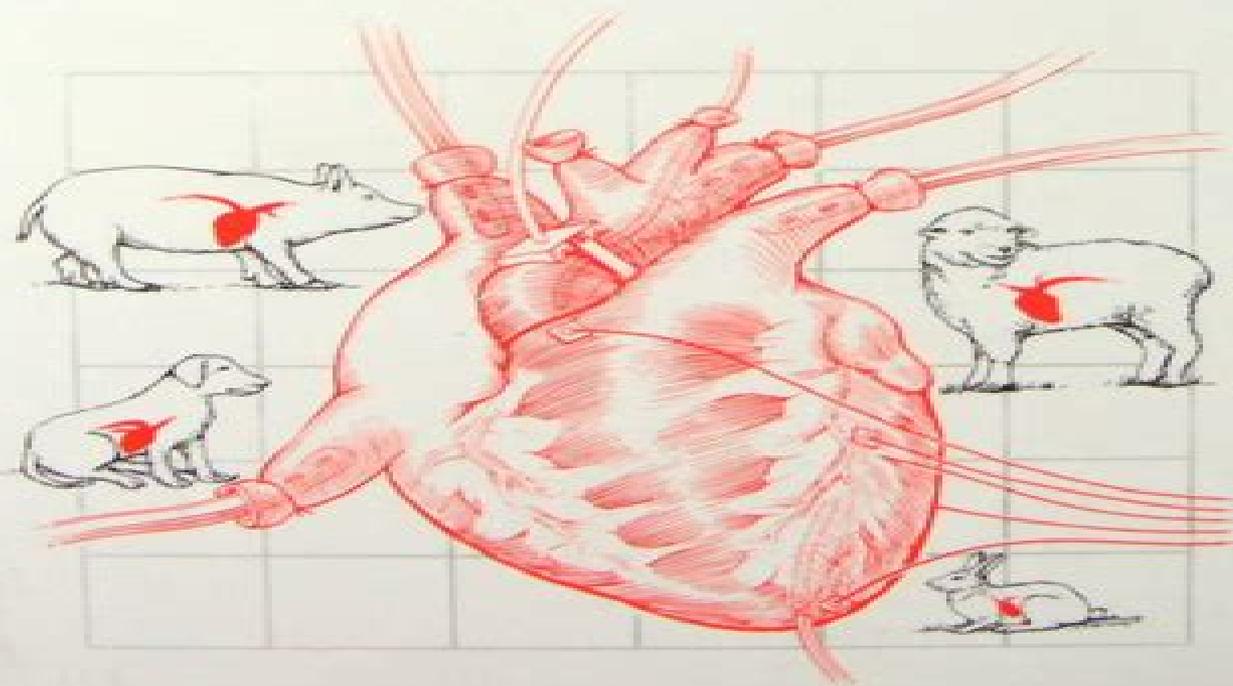


ANIMAL MODELS IN CARDIOVASCULAR RESEARCH

Second Revised Edition

by
David R. Gross



Kluwer Academic Publishers

Animal Models In Cardiovascular Research

**Institute of Laboratory Animal
Resources (U.S.)**



Animal Models In Cardiovascular Research:

Animal Models in Cardiovascular Research David Gross, 2009-06-26 Interest in the humane and scientifically justifiable use of research animals has intensified since the publication of the 2nd edition of *Animal Models in Cardiovascular Research*. This completely revised and updated edition will provide information essential to any researcher interested in using animal models for cardiovascular research or any research which requires normal cardiovascular function. The format and presentation will be changed to make the text more easy to read and use. 1 This edition is in outline format for ease and utility. 2 The opening chapter includes more information on the cardiovascular effects of post operative analgesia and will address the recognition of pain behavior in species commonly used in research settings particularly rats and mice. 3 New edition includes reference material more useful to researchers using transgenic and naturally occurring animal models to dissect these mechanisms.

Animal models in cardiovascular research D.R. Gross, 2013-04-17 Interest in the humane and scientifically justifiable use of research animals has intensified since the publication of the first edition of this textbook. This completely revised and updated text provides information essential to any researcher interested in using animal models for cardiovascular research or any research which requires normal cardiovascular function. The format and presentation have been changed to make the text more easy to read and use. An introductory chapter offers general principles of animal selection pre and post operative care preanesthesia chemical restraint analgesia and the recognition of pain. The number of references cited has been almost doubled over the previous text and the chapter tabulating normal cardiovascular parameters from intact awake animals of those species commonly used in research has been greatly expanded. Other chapters providing comprehensive data on the cardiovascular effects of opioids tranquilizers anesthetic agents and other drugs commonly used in cardiovascular research have been expanded with special emphasis on species variability to drug effects. The chapters on both naturally occurring and iatrogenic models of cardiovascular disease have also been expanded and updated.

Animal Models for the Study of Human Disease Li Chen, Richard P. Shannon, You-Tang Shen, 2013-05-29 With advances in molecular and genomic research offering novel insights into cardiovascular diseases many transgenic animal models have been recently developed and characterized. Currently more than 90 percent of all laboratory animal experiments are conducted in mice and rats. Although there are many scientific advantages to using small animal models it has been recently recognized that many exciting therapeutic targets identified in small animals are not validated in clinical trials in patients. Thus suitable large animal models particularly under conscious state with appropriate direct measurements of cardiovascular function are needed to serve as a better translational bridge between preclinical and clinical studies. In this chapter we primarily focus on surgically instrumented large animal models of common cardiovascular disease studied in the conscious state. In addition several important physiological factors that influence the characteristics of the models as well as the importance of proper data interpretation will also be discussed.

A Handbook of Mouse Models of Cardiovascular

Disease Qingbo Xu,2006-08-04 The availability of well defined genetic strains and the ability to create transgenic and knockout mice makes mouse models extremely valuable biomedical tools Their suitability as an experimental system for cardiovascular research depends on the individual investigator's ability to manipulate the mice surgically Many mouse models require microsurgical techniques which hitherto could not be performed without practical training This comprehensive handbook enables scientists to develop these models in their own laboratories A Handbook of Mouse Models of Cardiovascular Disease is the first book to address pathology in mouse models of heart disease providing the reader with essential information on technical assays in artificially created models It includes background information on individual cardiovascular diseases describes detailed methods and materials used for establishing each mouse model discusses the problems that may appear in the experiments and provides examples of applications of the model A Handbook of Mouse Models of Cardiovascular Disease Describes mouse models of all important cardiovascular diseases including atherosclerosis atrial fibrillation and thrombosis Features videos of key experimental procedures on the accompanying CD allowing researchers to learn the techniques by directly watching the whole operational procedure Describes how to establish each experimental model with detailed protocols and tips on dealing with common operational problems Highlights potential applications of each model in areas such as pathogenesis gene transfer therapy and pathophysiology This handbook is an invaluable resource for researchers in cardiovascular disease pathology physiology interested in the mechanism of vascular disorders and therapeutic approaches It is also relevant to clinicians seeking to understand the pathology of cardiovascular disease and the rationale for interventions and of interest to the pharmaceutical industry and all those involved in drug discovery development for cardiovascular disease Handbook of Laboratory Animal Science Jann Hau,Per

Svendsen,Steven J. Schapiro,1994-06-02 This two volume set presents a comprehensive description of laboratory animal genetics diseases health monitoring nutrition and the environmental impact on animal testing It considers the ethics of animal experimentation through a complete review of European and North American legislation on the topic It discusses alternatives to animal experiments including the use of isolated organs cell cultures and computer simulations The book also examines general methods including experimental design and statistical evaluation non surgical and surgical techniques anesthesia and post mortem examinations Reviews of animal models for studying diseases of different organ systems infectious diseases cancer and toxicology are featured as well **Animal Models and Experimental Research in**

Medicine Mahmut Karapehlivan,Volkan Gelen,Abdulsamed Kükürt,2023-04-05 The use of experimental animals is quite common in medical research especially for pharmaceutical developments and molecular pathway studies Considering the effects of therapeutic agents used in the treatment of tissues and systems it becomes clear how important experimental animals and the models developed on them are in research The benefits of using animals for disease models include accessibility applicability and affordability Most importantly they have proven to be successful in the prevention diagnosis

and treatment of many diseases This book provides a comprehensive overview of the use of animal models for amyotrophic lateral sclerosis hepatotoxicity liver fibrosis cirrhosis visceral hyperalgesia female reproduction and more *Spotlight on Animal Models and Human Cardiovascular Disease* W. Schaper, Michiel J. Janse, 1998 *Heart Research on Animals* Brandon Kuker-Reines, 1985 *Animal Models in Biomedical Research* Cynthia Petrie Smith, 1991 *Introduction to Translational Cardiovascular Research* Dennis V. Cokkinos, 2014-11-06 The term Translational Research reflects today's integration of basic research bench findings with the clinical practice of medicine and in a wider scope the application of results from the individual patient bedside to entire populations for the improvement of public health This book offers future researchers a stimulus in many aspects of cardiovascular research so as to promote their interest in future fields of cardiovascular disease diagnosis and treatment *Introduction to Translational Cardiovascular Research* discusses the fundamental and important aspects of the topic It describes the renin angiotensin aldosterone system the beta adrenergic receptors and the hypothalamic pituitary adrenal axis while covering genetic polymorphisms both generally and specifically as regards the vascular endothelium and the use of microRNAs As such this book will be relevant to young physicians nurses and other scientists engaged in the clinical cardiovascular field who want to add research oriented dimension to their efforts towards better understanding and practicing of medicine It also aims to attract young basic researchers who want to develop a better comprehension of the organism as a whole man or animal that they are investigating *A Handbook of Mouse Models of Cardiovascular Disease* Qinbo Xu, 2006 Accompanying CD ROM illustrates clearly each technique so that researchers can observe the operational procedures directly The CD ROM also features color versions of figures from the book for increased clarity ***A Handbook of Mouse Models of Cardiovascular Disease*** Qingbo Xu, 2006-10-28 The availability of well defined genetic strains and the ability to create transgenic and knockout mice makes mouse models extremely valuable biomedical tools Their suitability as an experimental system for cardiovascular research depends on the individual investigator's ability to manipulate the mice surgically Many mouse models require microsurgical techniques which hitherto could not be performed without practical training This comprehensive handbook will enable scientists to develop these models in their own laboratories It contains detailed advice on the issues that investigators need to consider before starting their experiments It then provides essential information about experimental procedures specific instruments and technical knowledge and will prove an indispensable guide to all scientists planning to work with these mouse models This book includes a brief introduction to each disease followed by a detailed description of the methods and materials used to establish the relevant mouse model Each chapter has been written by an expert familiar with that system who provides helpful discussion of the problems that may be encountered and examples of applications of the model Importantly each technique is clearly illustrated on the accompanying CD so that researchers can observe the operational procedures directly With coverage of all the major mouse models of cardiovascular disease this book may be used to obtain a broad overview of

commonly used methods and more importantly as a comprehensive source of detailed information on the development and study of such models It will prove essential reading to all those working on experimental animal models of cardiovascular disease from students to independent investigators *Encyclopedia of Cardiovascular Research and Medicine* ,2017-11-27
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Experimental Models of Cardiovascular Diseases Kiyotake Ishikawa,2024-04-27 This second edition provides new and updated methods for establishing reliable and reproducible experimental models of cardiovascular diseases Chapters detail practical protocols from expert laboratories focusing on cardiovascular research that would be critical in exploring novel discoveries in cardiac biology and the development of effective therapeutic approaches Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary

materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Experimental Models of Cardiovascular Diseases Methods and Protocols Second Edition aims to provide detailed and practical protocols that will be valuable tools for researchers in cardiology to conduct their research **Cardiovascular Flow Dynamics and Measurements** Ned H. C. Hwang,Nils A. Normann,1977

Nonhuman Primates in Perinatal Research Yves W. Brans,Thomas J. Kuehl,1988-04-08 Presents a cohesive overview of research involving the physiology and pathology of reproduction in nonhuman primates covering four major aspects of the reproductive cycle the pregnant animal the embryo the fetus and the neonate Each chapter contains literature reviews and comparative data on various species of primates with extensive discussions on the implications and applicability of work conducted with nonhuman primates to human perinatal research and clinical medicine Several chapters include previously unpublished data from the authors own studies **Proteomic and Genomic Analysis of Cardiovascular Disease** Jennifer E. Van Eyk,Michael J. Dunn,M. J. Dunn,2003-04-10 This book is the very first one focusing on the proteomic and genomic analysis of cardiovascular disease the number one killer in the industrial world These new research approaches have already revealed new and exciting discoveries that will eventually aid in the development of new diagnostic markers and new therapeutic approaches for the control and treatment of heart disease Organized in two parts the book describes the potentials but also the limitations of these technologies The various strategies and technical aspects that will assist the growing number of researchers in the cardiovascular area attempting to utilize these approaches are highlighted Also the transition into clinical applications is covered Thus the book offers a wonderful opportunity to educate and inform graduate students post doctoral fellows but also professional researchers in academia and industry about the new developments in this area

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