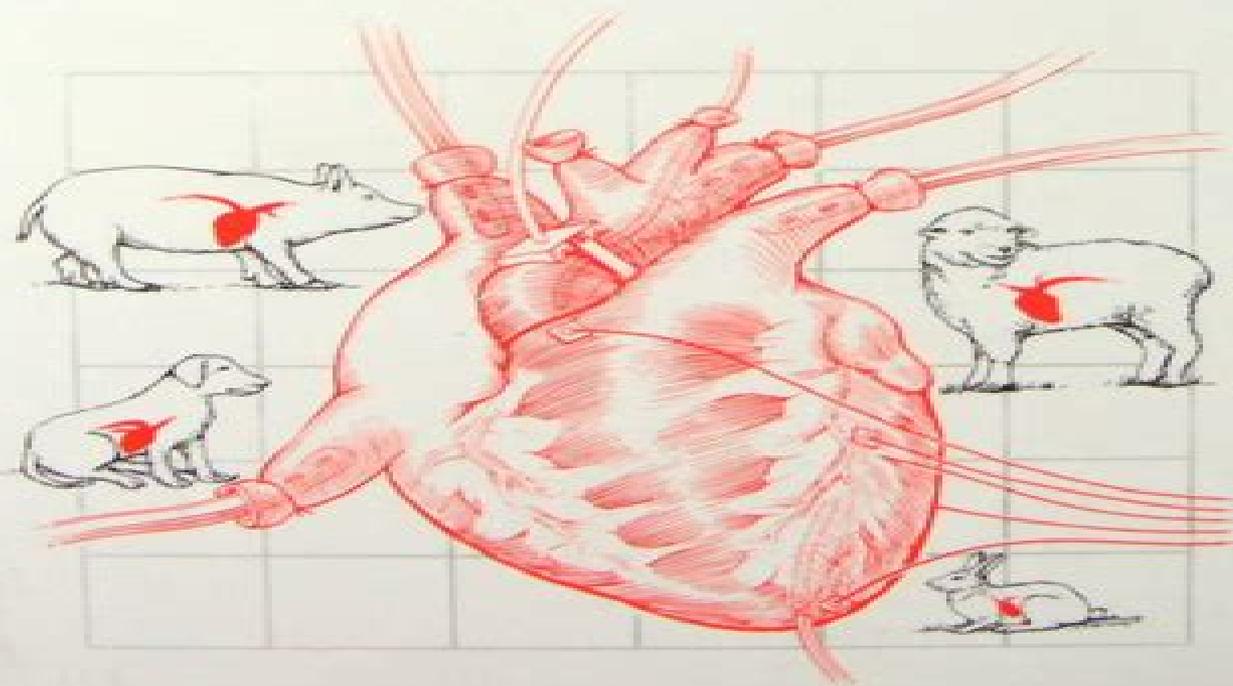


ANIMAL MODELS IN CARDIOVASCULAR RESEARCH

Second Revised Edition

by
David R. Gross



Kluwer Academic Publishers

Animal Models In Cardiovascular Research

New York (State).



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 **Spotlight on Animal Models and Human**

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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

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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 added 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

Selected Abstracts on Animal Models for Biomedical Research - III. Institute of Laboratory Animal Resources (U.S.), 1974 The publication is the third in a series designed to present abstracts or summaries of selected papers focusing on research utilizing animal models The majority of abstracts in this volume appeared in biomedical literature during 1972 although some entries date from late 1971 or early 1973 This edition of Selected Abstracts also contains an appendix featuring a list of 201 references relating to animal models for cardiovascular research p 49

Selected Abstracts on Animal Models for Biomedical Research is a publication of the Animal Models and Genetic Stocks Program an information exchange service conducted by ILAR The program informs the biomedical community of the various animal models available and assists investigators in selecting and locating particular strains or stocks

Encyclopedia of Cardiovascular Research and Medicine, 2017-11-27 Encyclopedia of Cardiovascular Research and Medicine Four Volume Set offers researchers over 200 articles covering every aspect of cardiovascular research and medicine including fully annotated figures abundant color illustrations and links to supplementary datasets and references With contributions from top experts in the field this book is the most reputable and easily searchable resource of cardiovascular focused basic and translational content for students researchers clinicians and teaching faculty across the biomedical and medical sciences The panel of authors chosen from an international board of leading scholars renders the text trustworthy contemporary and representative of the global scientific expertise in these domains The book s thematic structuring of sections and in depth breakdown of topics encourages user friendly easily searchable chapters Cross references to related articles and links to further reading and references will further guide readers to a full understanding of the topics under discussion Readers will find an unparalleled one stop resource exploring all major aspects of cardiovascular research and medicine Presents comprehensive coverage of every aspect of cardiovascular medicine and research Offers readers a broad interdisciplinary overview of the concepts in cardiovascular research and medicine with applications across biomedical research Includes reputable foundational content on genetics cancer immunology cell biology and molecular biology Provides a multi media enriched color illustrated text with high quality images graphs and tables

Large Mammalian Comparative Cardiac Anatomy Alexander John Hill, 2004

Swine in Cardiovascular Research, 1986

Animal Models to Explore Cardiovascular Disease, 2008

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

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