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Animal Models In Cardiovascular Research (Developments In Cardiovascular Medicine)



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Synopsis

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.

Book Information

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Customer Reviews

`Every once in a while, one finds a text that is likely to be truly useful and a valuable addition to one’s personal library. For those of us involved in cardiovascular research involving the use of

whole animal models, such is this text. Each chapter is prefaced with information of practical value for the researcher. The tables are subdivided by animal species and drug. ... This will be of tremendous value for anybody who is thinking about using a particular animal model for a research project and may save a good deal of time and effort. For those of us who review grants and manuscripts for publication, this text should serve as a useful reference for normal values and for comparative studies so as to determine whether or not the work in question reflects a typical situation. ... the text is likely to be of considerable use and is highly recommended as an addition to the bookshelves of those of us involved in animal research. It will receive a prominent place in my library.' Canadian Journal of Anaesthesia, 42:4 (1995)

Animal Models in Cardiovascular Research covers both historical and recent advances in our understanding of the cardiovascular system from studies conducted in animal models. The last decade has seen an explosion in the use of very specialized congenic and transgenic animal models that were not described in the previous two editions. The results of many of these studies provide a sometime bewildering array of redundant, overlapping and competing molecular pathways demanding further study. This third edition is designed to provide a better basis for understanding and using animal models in the current climate of background knowledge and information. The first and second editions of Animal Models in Cardiovascular Research emphasized normal cardiovascular parameters and the cardiovascular effects of a wide variety of drugs commonly used for restraint, anesthesia and pain control in the various animal species. The third edition is focused on the avalanche of genetic, molecular and protein-based information generated from the use of both congenic and transgenic animal models. Updated and expanded chapters provide new information generated from classical, congenic and transgenic animal models used to study ischemic heart disease, cardiomyopathy, heart failure, hypertension and atherosclerotic disease. Completely new chapters in this third edition describe the techniques, problems and pitfalls associated with the measurement of cardiac and vascular function and ventricular/arterial coupling dynamics in various animal models. There is a new chapter detailing problems and pitfalls associated with isolated heart preparations and another describing animal models for the study of neurohumeral and CNS control of the cardiovascular system. --This text refers to the Paperback edition.

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