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Molecular and Quantitative Animal Genetics
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Principles and Practice of Animal Tissue Culture (Second Edition)
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Animals and Society
Small Animal Critical Care Medicine - E-Book
Use of Laboratory Animals in Biomedical and Behavioral Research
Introduction to Veterinary and Comparative Forensic Medicine
Gene Transfer to Animal Cells

The Animal Rights Debate

Gary L. Francione is a law professor and leading philosopher of animal rights theory. Robert Garner is a political theorist specializing in the philosophy and politics of animal protection. Francione maintains that we have no moral justification for using nonhumans and argues that because animals are property or economic commodities laws or industry practices requiring "humane" treatment will, as a general matter, fail to provide any meaningful level of protection. Garner favors a version of animal rights that focuses on eliminating animal suffering and adopts a protectionist approach, maintaining that although the traditional animal-welfare ethic is philosophically flawed, it can contribute strategically to the achievement of animal-rights ends. As they spar, Francione and Garner deconstruct the animal protection movement in the United States, the United Kingdom, Europe, and elsewhere, discussing the practices of such organizations as PETA, which joins with McDonald's and other animal users to "improve" the slaughter of animals. They also examine American and European laws and campaigns from both the rights and welfare perspectives, identifying weaknesses and strengths that give shape to future legislation and action.

Animal Rights: A Very Short Introduction

Considering that much of human society is structured through its interaction with non-human animals, and since human society relies heavily on the exploitation of animals to serve human needs, human-animal studies has become a rapidly expanding field of research, featuring a number of distinct positions, perspectives, and theories that require nuanced explanation and contextualization. The first book to provide a full overview of human-animal studies, this volume focuses on the conceptual construction of animals in American culture and the way in which it reinforces and perpetuates hierarchical human relationships rooted in racism, sexism, and class privilege. Margo DeMello considers interactions between humans and animals within the family, the law, the religious and political system, and other major social institutions, and she unpacks the different identities humans fashion for themselves and for others through animals. Essays also cover speciesism and evolutionary continuities; the role and preservation of animals in the wild; the debate over zoos and the use of animals in sports; domestication; agricultural practices such as factory farming; vivisection; animal cruelty; animal activism; the representation of animals in literature and film; and animal ethics. Sidebars highlight contemporary controversies and issues, with recommendations for additional reading, educational films, and related websites. DeMello concludes with an analysis of major philosophical positions on human social policy and the future of human-animal relations.

Laboratory Animal Anaesthesia

A complete primer on minimally invasive plate osteosynthesis (MIPO) for the small animal practitioner! Topics will include concepts of the biomechanics in fracture repair, MIPO techniques for articular fractures, bone plate and plate-rod for MIPO, MIPO techniques of the tibia, MIPO techniques of the femur, percutaneous pinning, MIPO techniques of the radius and ulna, percutaneous arthrodesis, MIPO techniques of the metacarpus and metatarsus, fracture reduction techniques, minimally invasive repair of sacroiliac luxation, external fixators and MIPO, intraoperative imaging and interlocking nail and MIPO and much more!

Introduction to Laboratory Animal Science and Technology

Around 60 billion animals are bred for food each year worldwide and more than a billion are transported, often over long distances, every week. However, awareness and understanding of animal welfare, the factors that affect it and the correlation between it and other issues such as food safety and quality are increasing. Long distance transport can cause both physical and mental problems in animals and promoting animal welfare will be beneficial to both the animals and the agricultural and processing industries. In conjunction with a global coalition of NGOs working on animal transport and

welfare, this volume brings together studies from well known animal scientists and researchers to review the implications and necessity of long distance animal transport for slaughter. Authoritative reports on regional practices are combined with discussions of the science, economics, legislation and procedures involved in this practice. This review will be essential for researchers and professionals within animal production and welfare as well as veterinary science.

Introduction to In Vitro Cytotoxicology Mechanisms and Methods

"Sperm-mediated gene transfer (SMGT) represents a novel set of technologies for animal (or in the future, human) genetic modification using the sperm as a vector, as opposed to more traditional established routes such as fertilized eggs or embryonic stem c"

Animal Cell Culture Methods

An essential resource for both students and practitioners, this comprehensive text provides practical, up-to-date information about normal reproduction and reproductive disorders in horses, cattle, small ruminants, swine, llamas, and other livestock. Featuring contributions from experts in the field, each section is devoted to a different large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females. Key topics include the evaluation of breeding soundness, pregnancy diagnosis, diagnosis and treatment of infertility, abortion, obstetrics, surgery of the reproductive tract, care of neonates, and the latest reproductive technology. Includes coverage of all large animal species. All sections provide a review of clinically pertinent reproductive physiology and anatomy of males and females of each species. Complete coverage of the most current reproductive technology, including embryo transfer, estrous synchronization, and artificial insemination. A new section on alternative farming that addresses reproduction in bison, elk, and deer. New to the equine section: stallion management, infertility, and breeding soundness evaluation. New to the bovine section: estrous cycle synchronization, reproductive biotechnology, ultrasonographic determination of fetal gender, heifer development, and diagnosis of abortion. New to the porcine section: artificial insemination, boar/stud management, diseases of postpartum period, and infectious disease control. New to the llama section: infectious disease and nutrition.

Methods in Animal Proteomics

Proceedings of the Third Symposium of the Federation of European Laboratory Animal Science Associations, held in Amsterdam, The Netherlands, June 1-5, 1987

Introduction to Animal Cytogenetics

Introduction to Veterinary and Comparative Forensic Medicine is a ground-breaking book in an emerging new speciality. It reflects the increasing demand for expert opinion by veterinarians and others in courts of law and elsewhere on such matters as: · wildlife conservation, · welfare of, and alleged cruelty to, animals, · insurance, certification and malpractice · the identification of live and dead species or their derivatives. It also discusses and analyses current concern over possible links between domestic violence and abuse of animals. Throughout the book the emphasis is on the need for a systematic and thorough approach to forensic work. A particular feature is practical advice, with protocols on dealing with common problems, together with case studies, various appendices and an extensive bibliography. A vital reference for members of the veterinary profession, lawyers, enforcement bodies and welfare and conservation organisations. The comparative aspects provide an important source of information for those working in human forensic medicine and the biological sciences.

International Food Safety Handbook

By presenting models for understanding animals' moral status and rights, and examining their mental lives and welfare, the author explores the implications for how we should treat animals in connection with our diet, zoos, and research.

Long Distance Transport and Welfare of Farm Animals

Methods of Animal Experimentation, Volume I, provides information on the most common methods for using animals as tools in the search for new biological knowledge. The techniques described will facilitate the most efficient use of research animals and provide guidelines for their utmost comfort and welfare. The text is arranged according to specific research methods rather than to organ system or disease category. This approach gives the reader a broad view of the techniques involved in specific fields and describes the range of usefulness of these techniques. The first five chapters of the present volume describe basic information, methods, and principles involved in managing animals for experimental procedures. The remaining chapters deal with special techniques which have been demonstrated to be distinct, useful methods for using laboratory animals as a basic biomedical research tool. The descriptions of both fundamental and well-developed techniques of animal experimentation in various research fields should be useful to graduate students and experienced scientists who must consider variations in research approaches. The book is a source of information for the scientist administrator who is frequently confronted with different proposed approaches to biological research projects utilizing animals.

In the Name of Science

Biostatistics for Animal Science

The study of viruses, or virology as it is now called, had its origin in 1892 when a Russian botanist, Iwanowsky, showed that sap from a tobacco plant with an infectious disease was still highly infectious after passage through a filter capable of retaining bacterial cells. From such humble beginnings the study of these 'filter-passing agents', or viruses, has developed into a separate science which rivals, if it does not excel, in importance the whole of bacteriology. The importance of viruses lies not only in the diseases they cause in every type of living organism, but also because of their intimate relationship with the living cell, in which alone they can reproduce. Their study has influenced the whole of biology by greatly increasing our knowledge of the gene, genetics, and molecular structure; there is also the possible connexion of viruses with human cancer, in view of the occurrence of many viral cancers in other animals. The book attempts to give a comprehensive but necessarily superficial survey of the subject as a whole and should help senior undergraduates and postgraduate students who wish to gain some knowledge of virology. Further information is available from the extensive bibliography.

Animal Biotechnology

Known world-wide as the standard introductory text to this important and exciting area, the sixth edition of Gene Cloning and DNA Analysis addresses new and growing areas of research whilst retaining the philosophy of the previous editions. Assuming the reader has little prior knowledge of the subject, its importance, the principles of the techniques used and their applications are all carefully laid out, with over 250 clearly presented four-colour illustrations. In addition to a number of informative changes to the text throughout the book, the final four chapters have been significantly updated and extended to reflect the striking advances made in recent years in the applications of gene cloning and DNA analysis in biotechnology. Gene Cloning and DNA Analysis remains an essential introductory text to a wide range of biological sciences students; including genetics and genomics, molecular biology, biochemistry, immunology and applied biology. It is also a perfect introductory text for any professional needing to learn the basics of the subject. All libraries in universities where medical, life and biological sciences are studied and taught should have copies available on their shelves. " the book content is elegantly illustrated and well organized in clear-cut chapters and subsections there is a Further Reading section after each chapter that contains several key references What is extremely useful, almost every reference is furnished with the short but distinct author's remark." -Journal of Heredity, 2007 (on the previous edition)

Modern Techniques in Neuroscience Research

This book, *Tropical Animal Health*, describes the problems of animal diseases in the tropics, in the tropical environment, and in relation to particular production systems. In Part I, those basic scientific facts of the special host defence mechanism and of the host-pathogen relationship in the tropics, which hardly play any part in animal husbandry in temperate climates, are explained. Of special importance are the resistance mechanisms of autochthonous breeds and in contrast to them, the high susceptibility of exotic breeds in the tropics. It is explained how immuno- and chemoprophylaxis can be used as instruments for animal health measures if they are adapted to the socio-economic and ecological conditions of both the tropics and developing countries. Scientific details of immunology are presented as far as they are necessary to understand the epidemiology of tropical diseases and diagnostic techniques for recognizing tropical diseases as well as the execution of prophylactic measures. Vector-borne diseases are the disease complexes most difficult to control since they are bound to the tropical environment, thanks to the biology of their vectors. Therefore, a special chapter has been dedicated to the description of biology and eradication of vectors of vector-borne diseases. The extent of the description varies according to the importance of the specific vector. The acaricides, insecticides and alternative methods used to control vectors are discussed in detail. The author has tried to present a world-wide picture, but it is not possible to cover every aspect completely.

Estimating Abundance of African Wildlife

The use of safe and effective anaesthetic techniques can have a major influence both on the welfare of laboratory animals and the quality of the research results obtained in using them. In times of justified public and scientific concerns over such issues, the need for clear and concise advice on good technique is of paramount importance. However, much anaesthetic work in the laboratory is carried out by research workers and support staff who have not benefited from specialist veterinary training. This second edition of Paul Flecknell's invaluable guide gives just the sort of clear concise practical information such people need. It follows all the key stages from preoperative care through anesthesia itself to the post-anaesthetic recovery period. Following these general sections, there are specific instructions on regimes for particular laboratory animals, with advice on recommended agents, dosages and special procedures of importance. Particular emphasis is placed on welfare, pain reduction and proper post-procedural care. The Second Edition of this now standard guide adds the results of the latest research, most effective anesthetics and useful illustrations of procedures and equipment and broadens the original book's coverage to include notes on fish, amphibia, reptiles and birds. It will prove an essential addition to the library of any laboratory where animals are used for research.

Exotic Animal Training and Learning, An Issue of Veterinary Clinics: Exotic Animal Practice

Methods of Animal Experimentation, Volume IV focuses on research problems related to animal experimentation, including

aging, nutrition, and environmental studies. It summarizes therapeutic implications of animal experimentation methods to human application. Chapter 1 presents an introduction to inhalation chambers including discussions of the types of inhalation tests, inhalation equipment and technology, methods of generation and measurement of contaminants, and some of the specialized techniques available for the pulmonary exposure of animals. Chapter 2 provides practical information about methods and the auditory abilities of animals. Chapter 3 outlines some basic properties of the vertebrate olfactory systems and summarizes selected experimental methods and findings in olfactory research. The concluding chapter describes the use of vertebrate laboratory animals in gustatory research, including some procedures unique to taste research. Research scientists, medical researchers, and olfaction and gustatory experts will find this book invaluable.

An Introduction to Animal Psychology

The study of proteomics provides researchers with a better understanding of disease and physiological processes in animals. Methods in Animal Proteomics will provide animal scientists and veterinarians currently researching these topics in domestic animals a firm foundation in the basics of proteomics methodology, while also reviewing important advances that will be of interest to established researchers in the field. Chapters will provide practical information on a range of topics including protein identification and separation, bioinformatics, and applications to disease and reproduction research. This text will be written by leading international proteomics experts and essential for researchers in the fields of animal biology and veterinary medicine.

Gene Cloning and DNA Analysis

Non-Animal Techniques in Biomedical and Behavioral Research and Testing features the contributions of noted experts describing the application of non-animal methods in a wide variety of research and testing situations, including computer modeling/graphics, protein sequence analysis, behavioral analysis, drug design/testing, cosmetic and household products testing, toxicological testing, clinical testing, chemical identification and analysis, and disease investigations. Many of the alternatives covered have applications in behavioral as well as biomedical research and testing. Topics examined include in vitro techniques, molecular genetics, structure-activity relationships, physicochemical methods, computer-assisted drug designs, nutrition, epidemiology, autopsies, neural networks, ethology, image scanning devices, and medical microbiology. Future applications for non-animal methods are also explored. The book will appeal to toxicologists, pharmacologists, cosmetic and household product researchers, epidemiologists, medical microbiologists, biopsychiatrists, biomedical and psychological educators, biochemists, molecular geneticists, and other scientists interested in alternative testing methods.

Non-Animal Techniques in Biomedical and Behavioral Research and Testing

Estimating abundance of wildlife is an essential component of a wildlife research program, and a prerequisite for sound management. With the exception of a few highly mathematical volumes, there are no books on the subject for use by students and field workers. Also, the various techniques for counting animals found in scientific journals are often not accessible to African managers. The unavailability of the diverse literature necessitated the production of a textbook or field manual that covers the ground. The book compiles the most relevant techniques for counting African mammals, illustrated with many examples from the field. It provides guidelines for selecting the appropriate methodology for a range of conditions commonly found in the field, in terms of different animal species, habitat types, and management objectives.

Introduction--animal Techniques

Sperm-mediated Gene Transfer

"Covers all aspects of food safety--science, regulation, and labeling requirements--integrating major developments in the fields of toxicology, analytical chemistry, microbiology, hygiene, and nutrition."

Methods of Animal Experimentation

This volume provides complete and thorough coverage of the classical and state-of-the-art methods used in cell culture. It also includes basic principles used in the selection of cells for specific scientific study, as well as analytical and procedural techniques. Key Features * Reviews basic principles of cell culture * Gives options and techniques on how to look at cells

Minimally Invasive Fracture Repair, An Issue of Veterinary Clinics: Small Animal Practice - E-Book

Providing alternatives to animal testing is one of the hottest topics in biomedical research, and this groundbreaking volume addresses this critical issues head on. This unique book presents techniques and methods at the forefront of scientific research that have the potential to replace certain whole animal tests. Moreover, this book provides a platform where other widely accepted techniques and scientific advancements can be collated into a concise set of methods that can be implemented within both academic and industrial communities.

New Developments in Biosciences: Their Implications for Laboratory Animal Science

Introduction to In Vitro Cytotoxicology examines in vitro cytotoxicology, which offers new methodologies to toxicity testing. This important new discipline of modern toxicology is gaining increased acceptance as a viable alternative to traditional testing methods. The text discusses the application of in vitro cytotoxicology to toxicity testing and human risk assessment, and it analyzes the advantages and limitations of the tests performed under scientific and regulatory conditions. The book also reviews the optimum utilization of certain tests for specific groups of chemicals relevant to validation programs currently in progress. This book is a useful reference tool for students, researchers, and practitioners interested in academic, industrial, and regulatory toxicology; environmental health; cell biology; pharmacology; dentistry; or human and veterinary medicine.

Tropical Animal Health

The latest information on training and behavior of exotic pet animals for the exotic animal veterinarian. Topics to be covered include the application of science based training technology, a framework for solving behavior problems, training avian patients and their caregivers, trained falconry birds and veterinary medicine: preserving the client/veterinarian relationship, technicians and animal training, small mammal training in the veterinary practice, training reptiles and amphibians for medical and husbandry, training fish and invertebrates for husbandry and medical behaviors, marine mammal training, training birds and small mammals for medical behaviors, and more.

Introduction to Virology

This book presents animal cytology as a science of seeing and interpreting chromosome form and behaviour, and of appreciating its evolutionary significance. Its principal objective is to help students develop a basic understanding and confidence on all matters relating to animal chromosomes.

Methods in Bioengineering

This manual provides an overview of the techniques used in modern neuroscience research. The emphasis is on showing how different techniques can optimally be combined in the study of problems that arise at some levels of nervous system organization. It is a working tool for the scientist in the laboratory and clinic, providing detailed step-by-step protocols with tips and recommendations. Most chapters or protocols are organized such that they can be used independently of one another. Cross-references between the chapters, a glossary, a list of suppliers and appendices provide further help.

Methods of Animal Experimentation

Scientific experiments using animals have contributed significantly to the improvement of human health. Animal experiments were crucial to the conquest of polio, for example, and they will undoubtedly be one of the keystones in AIDS research. However, some persons believe that the cost to the animals is often high. Authored by a committee of experts from various fields, this book discusses the benefits that have resulted from animal research, the scope of animal research today, the concerns of advocates of animal welfare, and the prospects for finding alternatives to animal use. The authors conclude with specific recommendations for more consistent government action.

Animal Experimentation

Small Animal Critical Care Medicine is a comprehensive, concise guide to critical care, encompassing not only triage and stabilization, but also the entire course of care during the acute medical crisis and high-risk period. This clinically oriented manual assists practitioners in providing the highest standard of care for ICU patients. More than 150 recognized experts offer in-depth, authoritative guidance on clinical situations from a variety of perspectives. Consistent, user-friendly format ensures immediate access to essential information. Organ-system, problem-based approach incorporates only clinically relevant details. Features state-of-the-art invasive and non-invasive diagnostic and monitoring procedures, as well as an extensive section on pharmacology. Appendices provide conversion tables, continuous rate infusion determinations, reference ranges, and more.

Methods of Animal Experimentation

Introduction to Laboratory Animal Science and Technology discusses the principles involved in the healthy maintenance of animals in the laboratory or animal house. This book is divided into eight six units of study of the physical requirements of animals, physiological data, and techniques of husbandry, followed by summary data capsules and recommended further reading. After an overview of the laboratory animals, this book goes on dealing with various aspects of animal care, including their accommodation, health care routine, and animal health and hygiene. The next chapters examine the components of animal diet, the biological aspects of animal reproduction, breeding and heredity. The final chapter emphasizes the legal requirements concerning anesthesia, laboratory procedures, and the issue of euthanasia. This book will prove useful to laboratory technicians, students, students, researchers, and the general public who are concerned for animals and their use in laboratory work.

Molecular and Quantitative Animal Genetics

This text part offers a review of the research and developing technologies in the expanding areas of genetics, embryology,

and molecular biology from experts in the various fields. It includes sections covering manipulation of the embryo, and the mapping and engineering of the genome, as well as information on nuclear transfer and the development of xenotransplantation. Possibilities for future research and development are also considered.

Anaesthetic and Sedative Techniques for Aquatic Animals

Animal genetics is a foundational discipline in the fields of animal science, animal breeding, and veterinary sciences. While genetics underpins the healthy development and breeding of all living organisms, this is especially true in domestic animals, specifically with respect to breeding for key traits. *Molecular and Quantitative Animal Genetics* is a new textbook that takes an innovative approach, looking at both quantitative and molecular breeding approaches. The book provides a comprehensive introduction to genetic principles and their applications in animal breeding. This text provides a useful overview for those new to the field of animal genetics and breeding, covering a diverse array of topics ranging from population and quantitative genetics to epigenetics and biotechnology. *Molecular and Quantitative Animal Genetics* will be an important and invaluable educational resource for undergraduate and graduate students and animal agriculture professionals. Divided into six sections pairing fundamental principles with useful applications, the book's comprehensive coverage will make it an ideal fit for students studying animal breeding and genetics at any level.

Animal Breeding

Few arguments in biomedical experimentation have stirred such heated debate in recent years as those raised by animal research. In this comprehensive analysis of the social, political, and ethical conflicts surrounding the use of animals in scientific experiments, Barbara Orlans judges both ends of the spectrum in this debate -- unconditional approval or rejection of animal experimentation -- to be untenable. Instead of arguing for either view, she thoughtfully explores the ground between the extremes, and convincingly makes the case for public policy reforms that serve to improve the welfare of laboratory animals without jeopardizing scientific endeavor. This book presents controversial issues in a balanced manner based on careful historical analysis and original research. Different mechanisms of oversight for animal experiments are compared and those that have worked well are identified. This compelling work will be of interest to biomedical scientists, ethicists, animal welfare advocates and other readers concerned with this critical issue.

Principles and Practice of Animal Tissue Culture (Second Edition)

Gene transfer to animal cells was first achieved more than thirty years ago. Since then, transformation technology has developed rapidly, resulting in a multitude of techniques for cell transformation and the creation of transgenic animals. As

with any expanding technology, it becomes difficult to keep track of all the developments and to find a concise and comprehensive source of information that explains all the underlying principles. Gene Transfer to Animals Cells addresses this problem by describing the principles behind gene transfer technologies, how gene expression is controlled in animal cells and how advanced strategies can be used to add, exchange or delete sequences from animal genomes in a conditional manner. A final chapter provides an overview of all the applications of animal cell transformation in farming, medicine and research.

Current Therapy in Large Animal Theriogenology - E-Book

Animal Biotechnology: Models in Discovery and Translation, Second Edition, provides a helpful guide to anyone seeking a thorough review of animal biotechnology and its application to human disease and welfare. This updated edition covers vital fundamentals, including animal cell cultures, genome sequencing analysis, epigenetics and animal models, gene expression, and ethics and safety concerns, along with in-depth examples of implications for human health and prospects for the future. New chapters cover animal biotechnology as applied to various disease types and research areas, including in vitro fertilization, human embryonic stem cell research, biosensors, enteric diseases, biopharming, organ transplantation, tuberculosis, neurodegenerative disorders, and more. Highlights the latest biomedical applications of genetically modified and cloned animals, with a focus on cancer and infectious diseases Offers first-hand accounts of the use of biotechnology tools, including molecular markers, stem cells, animal cultures, tissue engineering, ADME and CAM Assay Includes case studies that illustrate safety assessment issues, ethical considerations, and intellectual property rights associated with the translation of animal biotechnology studies

Animals and Society

Methods of Animal Experimentation, Volume IV focuses on research problems related to animal experimentation, including aging, nutrition, and environmental studies. It summarizes therapeutic implications of animal experimentation methods to human application. Chapter 1 presents an introduction to inhalation chambers including discussions of the types of inhalation tests, inhalation equipment and technology, methods of generation and measurement of contaminants, and some of the specialized techniques available for the pulmonary exposure of animals. Chapter 2 provides practical information about methods and the auditory abilities of animals. Chapter 3 outlines some basic properties of the vertebrate olfactory systems and summarizes selected experimental methods and findings in olfactory research. The concluding chapter describes the use of vertebrate laboratory animals in gustatory research, including some procedures unique to taste research. Research scientists, medical researchers, and olfaction and gustatory experts will find this book invaluable.

Small Animal Critical Care Medicine - E-Book

Animal Experimentation: Working Towards a Paradigm Change critically appraises current animal use in science and discusses ways in which we can contribute to a paradigm change towards human-biology based approaches.

Use of Laboratory Animals in Biomedical and Behavioral Research

Introduction to Veterinary and Comparative Forensic Medicine

The second edition of Anaesthetic and Sedative Techniques for Aquatic Animals provided the fisheries and aquaculture industry with vital information on the use of sedation and anaesthetics in the avoidance of stress and physical damage, which can easily be caused by crowding, capture, handling, transportation and release. Now fully revised and expanded, the third edition has maintained its accessible format and incorporates much new emphasis on: • Fish pain and welfare: a rapidly developing area of interest and debate • Anaesthesia and legislation: with an international perspective Personnel involved in the aquaculture industry including fish farmers, fish veterinarians, fisheries scientists and fish biologists along with small animal veterinarians, animal laboratory managers and government and regulatory personnel will find this book a valuable and practical resource.

Gene Transfer to Animal Cells

Designed to cover techniques for analysis of data in the animal sciences, this textbook provides an overview of the basic principles of statistics enabling the subsequent applications to be carried out with familiarity and understanding, followed by more complex applications and detailed procedures commonly used in animal sciences. Each chapter begins by introducing a problem with practical questions, followed by a brief theoretical background, and is supplemented with an abundance of examples in SAS from animal sciences and related fields. Key features: - New larger format and updated throughout - Covers both basic techniques and more complex procedures - Contains exercises for readers to work through

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