



E. S. E. HAFEZ

**Reproduction and  
Breeding  
Techniques  
for Laboratory  
Animals**



# Reproduction And Breeding Techniques For Laboratory Animals

**J. K. Inglis**



## **Reproduction And Breeding Techniques For Laboratory Animals:**

*Reproduction and Breeding Techniques for Laboratory Animals* Elsayed Saad Eldin Hafez, 1970      **The Laboratory Rat** Mark A. Suckow, Steven H. Weisbroth, Craig L. Franklin, 2005-12-20 The Laboratory Rat Second Edition features updated information on a variety of topics including rat genetics and genomics both spontaneous and induced disease state of the art technology for housing and husbandry occupational health and experimental models A premier source of information on the laboratory rat that will be of interest to veterinary and medical students senior graduate graduate students post docs and researchers who utilize animals in biomedical research At least 50% new information than first edition Includes topics on rat genetics and genomics occupational health and experimental models The premier source of information on the laboratory rat

*Breeding in Laboratory Animals* M. Prakash, C. K. Arora, 1998 This Book Provides Important Information On Biology Of Sex And Reproduction Sexual Cycles Sexual Behaviour Copulatory Interaction Care Of The Embryo Breeding In Rats And Mice Breeding In Rabbits Breeding In Dogs Breeding In Cats Breeding In Guinea Pigs Breeding In Primates Teratology Test Methods For Laboratory Animals Etc It Is One Of The Few Books That Give A Practical Introduction Of The Husbandry Of Laboratory Animals For Use Both By Research Workers And Technicians Involved It Will Also Be Needed For Students Of Reproduction In Agriculture Veterinary Medicine Zoology And The Biochemical Sciences It Includes The Information About Comparative Aspects Of Anatomy Behaviour Physiology And Biochemistry Of Mammalian Reproduction      **A Guide to Laboratory Animal Technology** Martin D Buckland, Lynda Hall, Alan Mowlem, 2013-10-22 A Guide to Laboratory Animal Technology is a compilation of experiences of animal technicians with regard to laboratory animals in both research and breeding establishments This book discusses common laboratory species individually with reference to anatomy reproduction maintenance methods of handling and identification Studies on the common diseases found on these species are also provided All aspects of laboratory animal husbandry are considered including equipment SPF techniques transport and law This selection also includes a guide to examination technique and basic mathematics section that can help students with little experience in either field This text aims to provide an introduction and guide for the newcomers and students of the profession as well as a useful comprehensive reference work for all those concerned with animals      *Guide for the Care and Use of Laboratory Animals -- Japanese Edition* National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Commission on Life Sciences, 1997-01-31 A respected resource for decades the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts taking into consideration input from the scientific and laboratory animal communities and the public at large The Guide incorporates new scientific information on common laboratory animals including aquatic species and includes extensive references It is organized around major components of animal use Key concepts of animal care and use The Guide sets the framework for the humane care and use of laboratory animals Animal care and use program The Guide discusses the concept of a broad Program of Animal Care and

Use including roles and responsibilities of the Institutional Official Attending Veterinarian and the Institutional Animal Care and Use Committee Animal environment husbandry and management A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment husbandry behavioral and population management and more Veterinary care The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian It includes recommendations on animal procurement and transportation preventive medicine including animal biosecurity and clinical care and management The Guide addresses distress and pain recognition and relief and issues surrounding euthanasia Physical plant The Guide identifies design issues providing construction guidelines for functional areas considerations such as drainage vibration and noise control and environmental monitoring and specialized facilities for animal housing and research needs The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities This updated and expanded resource of proven value will be important to scientists and researchers veterinarians animal care personnel facilities managers institutional administrators policy makers involved in research issues and animal welfare advocates **Guide for the Care and Use of Laboratory Animals** ,1985 **CRC Handbook of Laboratory Animal Science** Edward C. Melby,Norman H. Altman,1974

*Guide for the Care and Use of Laboratory Animals* National Research Council,Division on Earth and Life Studies,Institute for Laboratory Animal Research,Committee for the Update of the Guide for the Care and Use of Laboratory Animals,2011-01-27 A respected resource for decades the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts taking into consideration input from the scientific and laboratory animal communities and the public at large The Guide incorporates new scientific information on common laboratory animals including aquatic species and includes extensive references It is organized around major components of animal use Key concepts of animal care and use The Guide sets the framework for the humane care and use of laboratory animals Animal care and use program The Guide discusses the concept of a broad Program of Animal Care and Use including roles and responsibilities of the Institutional Official Attending Veterinarian and the Institutional Animal Care and Use Committee Animal environment husbandry and management A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment husbandry behavioral and population management and more Veterinary care The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian It includes recommendations on animal procurement and transportation preventive medicine including animal biosecurity and clinical care and management The Guide addresses distress and pain recognition and relief and issues surrounding euthanasia Physical plant The Guide identifies design issues providing construction guidelines for functional areas considerations such as drainage vibration and noise control and environmental monitoring and specialized facilities for animal housing and research needs The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in

the management of animal facilities This updated and expanded resource of proven value will be important to scientists and researchers veterinarians animal care personnel facilities managers institutional administrators policy makers involved in research issues and animal welfare advocates      Reproduction in Farm Animals E. S. E. Hafez, B. Hafez, 2013-05-13 When you're looking for a comprehensive and reliable text on large animal reproduction look no further the seventh edition of this classic text is geared for the undergraduate student in Agricultural Sciences and Veterinary Medicine In response to reader feedback Dr Hafez has streamlined and edited the entire text to remove all repetitious and nonessential material That means you'll learn more in fewer pages Plus the seventh editing is filled with features that help you grasp the concepts of reproduction in farm animals so you'll perform better on exams and in practice condensed and simplified tables so they're easier to consult an easy to scan glossary at the end of the book an expanded appendix which includes graphic illustrations of assisted reproduction technology Plus you'll find valuable NEW COVERAGE on all these topics Equine Reproduction expanded information reflecting today's knowledge Llamas NEW CHAPTER Micromanipulation of Gametes and In Vitro Fertilization NEW CHAPTER Reach for the text that's revised with the undergraduate in mind the seventh edition of Hafez's Reproduction in Farm Animals      **Laboratory Animal Medicine** James G. Fox, Bennett J. Cohen, Franklin M. Loew, 2013-10-02 Laboratory Animal Medicine is a compilation of papers that deals with the diseases and biology of major species of animals used in medical research The book discusses animal medicine experimental methods and techniques design and management of animal facilities and legislation on laboratory animals Several papers discuss the biology and diseases of mice hamsters guinea pigs and rabbits Another paper addresses the dog and cat as laboratory animals including sourcing of these animals housing feeding and their nutritional needs as well as breeding and colony management The book also describes ungulates as laboratory animals including topics on sourcing husbandry preventive medical treatments and housing facilities One paper addresses primates as test animals covering the biology and diseases of old world primates Cebidae and ferrets Some papers pertain to the treatment diseases and needed facilities for birds amphibians and fish Other papers then deal with techniques of experimentation anesthesia euthanasia and some factors spontaneous diseases that complicate animal research The text can prove helpful for scientists clinical assistants and researchers whose work involves laboratory animals      *Laboratory Animal Medicine* Lynn C. Anderson, Glen Otto, Kathleen R. Pritchett-Corning, Mark T. Whary, 2015-07-04 Laboratory Animal Medicine Third Edition is a fully revised publication from the American College of Laboratory Medicine's acclaimed blue book series It presents an up to date volume that offers the most thorough coverage of the biology health and care of laboratory animals The book is organized by species with new inclusions of chinchillas birds and program and employee management and is written and edited by known experts in the fields Users will find gold standard guidance on the study of laboratory animal science as well as valuable information that applies across all of the biological and biomedical sciences that work with animals Organized by species for in depth understanding of biology health

and best care of animals Features the inclusion of chinchillas quail and zebra finches as animal models Offers guidance on program and employee management Covers regulations policies and laws for laboratory animal management worldwide

*The Laboratory Rabbit, Guinea Pig, Hamster, and Other Rodents* Mark A. Suckow, Karla A. Stevens, Ronald P.

Wilson, 2012-01-09 This is a single volume comprehensive book sanctioned by the American College of Laboratory Animal Medicine ACLAM covering the rabbit guinea pig hamster gerbil and other rodents often used in research This well illustrated reference includes basic biology anatomy physiology behavior infectious and noninfectious diseases husbandry and breeding common experimental methods and use of the species as a research model It is a resource for advancements in the humane and responsible care of rabbit guinea pig hamster gerbil chinchilla deer mouse kangaroo rat cotton rat sand rat and degu Includes up to date common experimental methods Organized by species for easy access during bench research **The**

**UFAW Handbook on the Care and Management of Laboratory and Other Research Animals** Robert C.

Hubrecht, James Kirkwood, 2010-01-19 The seminal reference on the care of laboratory and captive animals The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals is a must have for anyone working in this field The UFAW Handbook has been the definitive text since 1947 Written for an international audience it contains contributions from experts from around the world The book focuses on best practice principles throughout providing comprehensive coverage with all chapters being peer reviewed by anonymous referees As well as addressing the husbandry of laboratory animals the content is also of great value to zoos and aquaria Changes for the eighth edition Revised and updated to reflect developments since publication of the previous edition New chapters on areas of growing concern including the 3Rs phenotyping statistics and experimental design welfare assessment legislation training of people caring for lab animals and euthanasia All material combined into one volume for ease of reference This book is published on behalf of UFAW The Universities Federation for Animal Welfare with whom we also publish the UFAW Wiley Blackwell Animal Welfare Book Series This major series of books provides an authoritative source of information on worldwide developments current thinking and best practice in the field of animal welfare science and technology For details of all of the titles in the series see <http://www.wiley.com/go/ufaw> *Introduction to Laboratory Animal Science and Technology*

J. K. Inglis, 2013-10-22 *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 researchers and the general public who are concerned for animals and their use in laboratory work      *Guide for the Care and Use of Laboratory Animals* Institute for Laboratory Animal Research, Commission on Life Sciences, Division on Earth and Life Studies, National Research Council, 1996-08-06 A respected resource for decades the Guide for the Care and Use of Laboratory Animals has been revised by a committee of experts based on input from scientists and the public The Guide incorporates recent research on commonly used species including farm animals and includes extensive references It is organized around major components of animal use Institutional policies and responsibilities The committee discusses areas that require policy attention the role and function of the Institutional Animal Care and Use Committee protocols for animal care and use occupational health and safety personnel qualifications and other areas Animal environment husbandry and management The committee offers guidelines on how to design and run a management program addressing environment nutrition sanitation behavioral and social issues genetics nomenclature and more Veterinary care The committee discusses animal procurement and transportation disease and preventive medicine and surgery The Guide addresses pain recognition and relief and issues surrounding euthanasia Physical plant The committee identifies design and construction issues providing guidelines for animal room doors drainage noise control surgery and other areas The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities a resource of proven value now updated and expanded This revision will be important to researchers animal care technicians facilities managers administrators at research institutions policymakers involved in research issues and animal welfare advocates      Reproductive Toxicology, Second Edition J Witorsch Raphael, 1995-06-30 Presents not only the major principles and current issues in the field but also provides a physiologic basis for the actions and reactions to reproductive toxic agents The volume is divided into three sections The first focuses on the current concepts of normal mammalian reproductive function from the systems to subcellular level The second explains how toxic substances disrupt the normal functioning of elements of the mammalian reproductive system The third section discusses other issues of long standing or recent interest to the field such as clinical aspects epidemiology and the toxic effects of low energy electromagnetic fields and tobacco alcohol and other substances of abuse Annotation copyright by Book News Inc Portland OR      **The Biology of the Laboratory Rabbit** Patrick J. Manning, 2014-04-25 After nearly 20 years the publication of this Second Edition of The Biology of the Laboratory Rabbit attests to its popularity within the scientific community as well as to the need to update an expanding database on the rabbit as a major species in laboratory investigation The principal aim of this text is to provide a comprehensive and authoritative source of scientifically based information on a major laboratory animal species The text continues to emphasize the normal biology as well as diseases of the European domestic rabbit *Oryctolagus cuniculus* especially the New Zealand White breed with occasional reference to other rabbit species *Sylvilagus* sp and hares *Lepus* sp New topics have been added to this second edition in response to changing trends in biomedical research

and product testing as well as to suggestions from readers New chapters included on Anesthesia and analgesia Models in infectious disease research Models in ophthalmology and vision research Polyclonal antibody production Toxicity and safety testing Drug doses and clinical reference data     *Amphibians: Guidelines for the Breeding, Care, and Management of Laboratory Animals* Institute of Laboratory Animal Resources (U.S.). Subcommittee on Amphibian Standards,1974-01-01

**Marshall's Physiology of Reproduction** G.E. Lamming,2013-04-17 The most comprehensive review available today Marshall s Physiology of Reproduction is the classic reference source for teachers and researchers of animal reproduction Internationally recognised leaders in their respective fields provide an analytical synopsis of the area review current research and outline their philosophical approach to the subject Volume 3 of the fourth edition reviews the processes of pregnancy and lactation in mammals incorporating marsupials non primate eutherians and primates including man Book one covers pregnancy from ovulation to pre parturition book two reviews fetal physiology parturition and lactation The extensive coverage of the physiology of human reproduction and lactation makes this volume a particularly important reference source for researchers in human fertility control while the review of large animal reproduction is relevant to veterinary and para veterinary workers     **Sex and Behavior** McGill,2013-06-29 Discussion of the precise nature and position of boundaries between disciplines is nearly always counterproductive the need is usually to cross them not to emphasize them And any such discussion of the distinction between ethology and comparative psychology would today seem patently absurd While there may be differences in outlook no boundaries exist But when Frank Beach started in research that was not the case Comparative psychology flourished in the United States whereas ethology was unknown Beach started as a comparative psychologist and has always called himself either that or a behavioral endocrinologist Yet among the comparative psychologists of his generation he has had closer links with the initially European ethologists than almost any other He was indeed one of the editors of the first volume of Behaviour That this should have been so is not surprising once one knows that his Ph D thesis concerned The Neural Basis for Innate Behavior that he used to sleep in the laboratory so that he could watch mother rats giving birth and that in 1935 he was using model young to analyze maternal behavior Furthermore for nine years he worked in the American Museum of Natural History in a department first named Experimental Biology and later when Beach had saved it from extinction and become its chairman the Department of Animal Behavior It was in 1938 during Frank s time at the American Museum that he was first introduced to Niko Tinbergen by Ernst Mayr



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