



**Christopher J. Gordon**

**TEMPERATURE  
REGULATION IN  
LABORATORY  
RODENTS**

# Temperature Regulation In Laboratory Rodents

**Elias T. Polymeropoulos, Rebecca  
Oelkrug, Martin Jastroch**



## **Temperature Regulation In Laboratory Rodents:**

**Temperature Regulation in Laboratory Rodents** Christopher J. Gordon, 1993-08-27 With the help of extensive data tables and figures this book explains the key facets of rodent thermal physiology including neurological control and gender and intraspecies variations The book should therefore find use in government academic or industrial laboratories whose researchers are working with rodents      *Guide for the Care and Use of Laboratory Animals -- Korean Edition* National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Commission on Life Sciences, 2005-08-27 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      Critical Care Management for Laboratory Mice and Rats F. Claire Hankenson, 2013-10-03 For critical care of laboratory rodents there is a scarcity of sources for comprehensive feasible and response oriented information on clinical interventions specific to spontaneous and induced models of disease With the more complex cases that need critical care management many treatment approaches to veterinary emergencies cannot be applied      *Guide for the Care and Use of Laboratory Animals* , 1996 Demonstrates how computers logic controllers PLCs and programmable logic devices PLDs have in common the characteristics of being synchronous sequential systems and differ with regard to modularity design confidentiality and speed The first section introduces logic controllers and makes the

connection between digital electronics and PLCs The second section is dedicated to PLDs and their use in designing PLCs The final section considers PLCs and their applications and PLC programming languages Annotation copyrighted by Book News Inc Portland OR

**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

**Temperature and Toxicology** Christopher J. Gordon, 2005-02-28 Thermoregulation is vital for survival but the interplay between toxic insults and thermoregulatory mechanisms is often poorly understood Temperature and Toxicology An Integrative Comparative and Environmental Approach is the first major text to study the integrative thermoregulatory responses of mammals that are exposed to toxicants Because e

**The Evolution of Endothermy - From Patterns to Mechanisms** Elias T. Polymeropoulos, Rebecca Oelkrug, Martin Jastroch, 2018-09-14 Metabolic rate is a key ecophysiological factor determining fitness distribution survival and reproductive strategies of organisms The ability to endogenously produce heat and elevate body temperature beyond ambient has far reaching ecological implications The diversity of thermogenic mechanisms and strategies employed throughout the animal kingdom is truly phenomenal and one of the greatest biological mysteries Interestingly even heat producing plants have been characterised Over the last several decades the oversimplified distinction between warm and cold blooded animals has well and truly been put to rest and the terms endo and ectotherm have been established Birds and mammals are regarded as endotherms capable of maintaining high body temperatures within highly precise boundaries On contrary in ectothermic organisms ambient temperature governs body temperature and metabolism encompassing the majority of present day

species However it has recently become very clear that this distinction is still not accurate enough to describe the vastness of heat generating mechanisms within endo but also ectotherms Indeed a plethora of ectothermic animals display endogenous as well as behavioural means of temperature control and mechanisms for heat generation There is large diversity in regards to thermoregulatory ability and strategy within endotherms as well with some groups being classified by separate categories such as basoendotherms and mesotherms Considerable interest and efforts has been put into the quest to understand the underlying physiological mechanisms leading and facilitating high metabolic rates and body temperatures of endotherms These mechanisms are far from being exhaustively studied and the evolutionary trajectory leading to high metabolic rates and stable body temperatures is equally vividly debated This discussion includes an array of questions and theories surrounding the presence of endothermy in extinct dinosaurs In addition a lively debate surrounds the evolutionary drivers promoting the establishment of endothermy with clear support of direct or indirect selective benefits Within this Research Topic we plan to compile the latest ideas knowledge and experimental work to elucidate the patterns of the evolution of endothermy and its transition distinction from ectothermy The focus is on key physiological mechanisms supporting this transition and contributing to the maintenance of high metabolic rates and body temperature in endotherms as well as mechanisms for local heterothermy and heat dissipation in ectotherms These mechanisms and conclusions may be derived from different levels of organisation such as population taxon species as well as tissue cellular or molecular levels It may also encompass novel experimental or theoretical models testing evolutionary theories of endothermy A comparative approach is encouraged but not fundamental

**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

**Anesthesia and Analgesia in Laboratory Animals** Richard Fish, Peggy J.

Danneman, Marilyn Brown, Alicia Karas, 2011-04-28 Anesthesia and Analgesia in Laboratory Animals focuses on the special anesthetic analgesic and postoperative care requirements associated with experimental surgery Fully revised and updated this new edition provides the reader with agents methods and techniques for anesthesia and analgesia that ensure humane and successful procedural outcomes Provides researchers with the most comprehensive and up to date review of the use of anesthesia and analgesia in laboratory animals Thoroughly updated with new material on ferrets birds reptiles amphibians fish and invertebrates Includes hot topic areas such as pain research ethical issues legal issues and imaging studies

## **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 Inhalation Toxicology, Third Edition Harry Salem, Sidney A.

Katz, 2014-08-19 The lungs provide a significant opportunity for the introduction of both therapeutic and toxic chemicals into the human body In occupational and domestic environments hazardous chemicals can enter the body through the lungs via gases aerosols and particulates from natural and anthropogenic sources Fully updated with new research and discoveries since the last edition Inhalation Toxicology Third Edition presents contributions from internationally recognized scientists in the academic commercial industrial and governmental sectors A pragmatic resource for practicing professionals and students the book comprehensively examines the relationship between the respiratory system and the toxicology of inhaled substances Topics include Regulatory aspects of exposure and testing Testing equipment and procedures Respiratory allergy and irritation of the respiratory tract Risk assessment Toxicology theory Toxicology modeling Toxic effects of some individual toxicants New topics in this third edition include collection and characterization of airborne particulate matter the inhalation toxicology of asbestos fibers and nanoparticles and the development of lung on a chip technology for predicting in vivo

responses Each chapter concludes with thought provoking questions and answers enhancing the book s educational utility

*Anesthesia and Analgesia in Laboratory Animals* Melissa Dyson,Paulin Jirkof,Jennie Lofgren,Elizabeth Nunamaker,Daniel Pang,2023-05-17 Anesthesia and Analgesia in Laboratory Animals focuses on the special anesthetic analgesic and postoperative care requirements associated with experimental interventions Fully revised and updated this new edition provides the reader with agents methods and techniques for anesthesia and analgesia that ensure humane reproducible and successful procedural outcomes Sections cover ethical regulatory and scientific considerations principles of anesthesia and analgesia anesthetic equipment and monitoring perioperative care including dedicated chapters to the assessment and management of pain in laboratory species and practical considerations by species including relevant anatomy physiology and behavior of a broad range of lab animal species This will be a complete reference for veterinarians involved in lab animal research as well as senior graduate students post docs and researchers who utilize animals in biomedical research Provides researchers with the most comprehensive and up to date review of the use of anesthesia and analgesia in laboratory animals Includes complete coverage of agents impact in research outcomes Thoroughly updated with new material on ferrets birds reptiles amphibians fish and cephalopods Covers hot topic areas such as pain research ethical issues legal issues and imaging studies

*Anesthesia and Analgesia in Laboratory Animals* Dennis F. Kohn,Sally K. Wixson,William J. White,G. John Benson,1997-05-01 Anesthesia and Analgesia in Laboratory Animals focuses entirely on the special anesthetic analgesic and postoperative care requirements associated with experimental surgery Sponsored by the American College of Laboratory Animal Medicine this informative work provides the reader with agents methods and techniques for anesthesia and analgesia that ensure humane and successful procedural outcomes Focuses on a wide variety of animal species used in research Provides a comprehensive overview of the pharmacology of anesthetics and analgesics Includes monitoring of analgesia and anesthesia Organizes topics by species for agents and methods of providing anesthesia analgesia and post op care to animals No other American text is devoted entirely to this topic

**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 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

*Handbook of Laboratory Animal Science* Jann Hau,Steven J. Schapiro,2021-05-17 Building upon the success of previous editions of the bestselling Handbook of Laboratory Animal Science first published in 1994 this latest revision combines all three volumes in one definitive guide It covers the essential principles and practices of Laboratory Animal Science as well as selected animal

models in scientific disciplines where much progress has been made in recent years Each individual chapter focuses on an important subdiscipline of laboratory animal science and the chapters can be read and used as stand alone texts with only limited necessity to consult other chapters for information With new contributors at the forefront of their fields the book reflects the scientific and technological advances of the past decade It also responds to advances in our understanding of animal behavior emphasizing the importance of implementing the three Rs replacing live animals with alternative methods reducing the number of animals used and refining techniques to minimize animal discomfort This fourth edition will be useful all over the world as a textbook for laboratory animal science courses for postgraduate and undergraduate students and as a handbook for scientists who work with animals in their research for university veterinarians and for other specialists in laboratory animal science

**Thermal Balance in Health and Disease** Eugen Zeisberger, Eduard Schönbaum, Peter

Lomax, 2012-12-06 The German land of Hesse Bundesland Hessen is well known for its excellent wines Rheinhessen for its financial centre and for its airport Frankfurt/Main It is unjustifiably far less well known for its importance to thennoregulation Within the small area of Bad Nauheim Giessen and Marburg in alphabetical order a greater concentration of students of thenno regulation has been trained or worked or is working than probably in any other single area of Europe if not the world It is thus most appropriate to hold the Ninth International Symposium on the Pharmacology of Thennoregulation in Giessen from August 7 to 12 1994 The community of students of thennoregulation was extremely grateful that Professor Kurt Bruck and the Iustus Liebig University of Giessen had extended this invitation The same community was even more saddened that Kurt Bruck died on April 27 1992 and thus could not participate in this event that had been planned to honour his achievements As a small token of friendship and affection the many friends of Kurt Bruck from all over the world who will participate in this event dedicate this symposium to the memory of Kurt Bruck Another staunch friend researcher of temperature regulation and supporter of this series of symposia died in October 1993 Professor Wilhelm Siegmund Feldberg We feel fortunate to be able to start this volume with two brief infonnal and personal accounts of professors Bruck and Feldberg

*Handbook of Laboratory Animal Science, Volume I* Jann Hau, Steven J.

Schapiro, 2010-12-02 Laboratory animal testing provides most of our current knowledge of human physiology microbiology immunology pharmacology and pathology From studies of genetics in fruit flies to studies of cellular processes in genetically modified mice to recent dramatic developments in genetics translational research and personalized medicines biomedical

**Principles and Methods of Toxicology, Fifth Edition** A. Wallace Hayes, 2007-09-25 Founded on the paradox that all things are poisons and the difference between poison and remedy is quantity the determination of safe dosage forms the base and focus of modern toxicology In order to make a sound determination there must be a working knowledge of the biologic mechanisms involved and of the methods employed to define these mechanisms While the vastness of the field and the rapid accumulation of data may preclude the possibility of absorbing and retaining more than a fraction of the available



information a solid understanding of the underlying principles is essential Extensively revised and updated with four new chapters and an expanded glossary this fifth edition of the classic text Principles and Methods of Toxicology provides comprehensive coverage in a manageable and accessible format New topics include toxicopanomics plant and animal poisons information resources and non animal testing alternatives Emphasizing the cornerstones of toxicology people differ dose matters and things change the book begins with a review of the history of toxicology and followed by an explanation of basic toxicological principles agents that cause toxicity target organ toxicity and toxicological testing methods including many of the test protocols required to meet regulatory needs worldwide The book examines each method or procedure from the standpoint of technique and interpretation of data and discusses problems and pitfalls that may be associated with each The addition of several new authors allow for a broader and more diverse treatment of the ever changing and expanding field of toxicology Maintaining the high quality information and organizational framework that made the previous editions so successful Principles and Methods of Toxicology Fifth Edition continues to be a valuable resource for the advanced practitioner as well as the new disciple of toxicology Cumulated Index Medicus ,1971 **The Laboratory Rat** George J. Krinke,2000-06-20 This reference series will provide all researchers using laboratory animals with comprehensive practical information on the various species Each title in the series is devoted to a particular species and draws together all available data in a one stop easily accessible source Each has similar format with sections on the strains available their husbandry and special diets Also included are sections on gross anatomy endocrinology and reproduction followed by more detailed sections on neuroanatomy vasculature cell biology and histology of particular organs and structures and a section on molecular biology High quality illustrations are included throughout and a color plate section is provided A glossary list of equipment suppliers and Quick Reference Section are added features The Quick Reference Section brings together all tables from the text allowing readers to find data swiftly The first volume in The Handbook of Experimental Animals Series The Laboratory Rat provides researchers in academia and industry using laboratory animals with comprehensive practical information on the species The Laboratory Rat has been divided into eight sections dealing with Strains and their selection for research Housing and maintenance Pathogens and diseases Breeding and reproduction Anatomy Physiology Procedures including experimental surgery Emerging techniques including genetic engineering and molecular technologyKey Features Provides a valuable comprehensive reference source for anybody working with the laboratory rat Formatted in a two color user friendly layout Includes high quality illustrations throughout as well as a color plate section Glossary Tables in the text are also arranged into one Quick Reference Section for ease of access to the data Appendix of equipment suppliers

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