



Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices

From Brand: CRC Press

 Download

 Read Online

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press

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 research involving animals remains absolutely essential for the advancement of the medical, veterinary, agricultural, and biological sciences and all rely on access to high-quality laboratory animals as models for humans.

Rooted in the principle that good science can only be performed in environments that promote good animal welfare, this third edition of the bestselling **Handbook of Laboratory Animal Science, Vol. 1, Essential Principles and Practices** emphasizes the importance of implementing the three R's: replacing live animals with alternative methods, reducing the number of animals used, and refining techniques to minimize animal discomfort, and integrates these humane principles into almost every chapter.

See what's new in the Third Edition:

- New chapters: Applications of Radio-Telemetry in Small Laboratory Animals, Generation and analysis of genetically modified mice, and Physiological, Hematological, and Clinical Chemistry Parameters
- Additional material on the international harmonization of practices and on the continued implementation of the refinement, reduction, and replacement of animal usage in laboratories
- Sixteen page color insert

Relevant to virtually all areas of laboratory science and forming the cornerstone of laboratory animal science, each individual chapter focuses on an important subdiscipline of laboratory animal science including humane laws and guidelines; non-surgical, surgical, microsurgical, and post-mortem procedures; genetic modification; nutrition, feeding, and environmental factors; experiment design and alternative methods; and analgesia, anesthesia, and euthanasia. Each chapter can be read in series or as a stand alone text.

A truly international effort from world renowned contributors, **Handbook of Laboratory Animal Science, Vol. 1, Essential Principles and Practices, Third Edition** is useful as a textbook in laboratory animal science courses for postgraduate and undergraduate students, as a handbook for scientists who work with animals in their research, and for university veterinarians, regulators, and other specialists in laboratory animal science.

 [Download Handbook of Laboratory Animal Science, Volume I, T ...pdf](#)

 [Read Online Handbook of Laboratory Animal Science, Volume I, ...pdf](#)

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices

From Brand: CRC Press

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices
From Brand: CRC Press

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 research involving animals remains absolutely essential for the advancement of the medical, veterinary, agricultural, and biological sciences and all rely on access to high-quality laboratory animals as models for humans.

Rooted in the principle that good science can only be performed in environments that promote good animal welfare, this third edition of the bestselling **Handbook of Laboratory Animal Science, Vol. 1, Essential Principles and Practices** emphasizes the importance of implementing the three R's: replacing live animals with alternative methods, reducing the number of animals used, and refining techniques to minimize animal discomfort, and integrates these humane principles into almost every chapter.

See what's new in the Third Edition:

- New chapters: Applications of Radio-Telemetry in Small Laboratory Animals, Generation and analysis of genetically modified mice, and Physiological, Hematological, and Clinical Chemistry Parameters
- Additional material on the international harmonization of practices and on the continued implementation of the refinement, reduction, and replacement of animal usage in laboratories
- Sixteen page color insert

Relevant to virtually all areas of laboratory science and forming the cornerstone of laboratory animal science, each individual chapter focuses on an important subdiscipline of laboratory animal science including humane laws and guidelines; non-surgical, surgical, microsurgical, and post-mortem procedures; genetic modification; nutrition, feeding, and environmental factors; experiment design and alternative methods; and analgesia, anesthesia, and euthanasia. Each chapter can be read in series or as a stand alone text.

A truly international effort from world renowned contributors, **Handbook of Laboratory Animal Science, Vol. 1, Essential Principles and Practices, Third Edition** is useful as a textbook in laboratory animal science courses for postgraduate and undergraduate students, as a handbook for scientists who work with animals in their research, and for university veterinarians, regulators, and other specialists in laboratory animal science.

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices

From Brand: CRC Press Bibliography

- Sales Rank: #3398974 in Books
- Brand: Brand: CRC Press
- Published on: 2010-12-02
- Original language: English
- Number of items: 1
- Dimensions: 10.32" h x 1.57" w x 7.15" l, 3.34 pounds
- Binding: Hardcover
- 740 pages

 [Download Handbook of Laboratory Animal Science, Volume I, T ...pdf](#)

 [Read Online Handbook of Laboratory Animal Science, Volume I, ...pdf](#)

Download and Read Free Online Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press

Editorial Review

Review

"... this book is an impressive and valuable contribution to the literature. While not light-reading it is extremely well-written and clear. The chapters provide authoritative introductions to a wide range of animal models and, as such, it will be a very useful resource for researchers, laboratory animal veterinarians and regulators, for those teaching laboratory animal science, as well as to any with an interest in the variety of uses to which animals are put in the biomedical sciences."

? Robert Hubrecht, UFAW, Wheathampstead, UK, in *Animal Welfare*, February 2012

"[A] valuable reference book, and potentially a course book for undergraduate and graduate laboratory animal science courses. ... [T]he text is well organized and well referenced. I would highly recommend this book as a reference text for all scientists using traditional laboratory animal species"

? *Contemporary Topics in Laboratory Animal Science*, Vol. 43, No. 5, Sept. 2004

"Both volumes of this book are well written, user friendly ... it fills a current void by collecting together current practices in the scientific use of animals. Each chapter is well referenced and the book would be a valuable addition to the reference collections of animal facilities and research establishments."

? Bryan Howard, *Animal Welfare*, 2004

"Hau and Van Hoosier have drawn together information of the highest quality ... both volumes of this book will be valuable additions to the shelves of any veterinary surgeon involved in the field, either as a named vet or as a member of the multidisciplinary scientific team required in modern biomedical research."

? Paul Townsend, *The Veterinary Record*, May 31, 2003

"The text is quite easy to navigate using the chapter contents and index. The photographs and tables are clear and well used throughout. ... The vast scope of information that this handbook contains is diverse, informative, and quite useful. The strength of these volumes is in their ability to cover a broad range of topics yet in such detail. This set would be an asset to the graduate student and researcher needing an excellent reference manual."

? Sandra L. Jex, *Animal Lab News*, July/Aug 2003

About the Author

University of Copenhagen & Rigshospitalet, Denmark The University of Texas, Bastrop, Texas, USA

Users Review

From reader reviews:

Lucille Renner:

People live in this new moment of lifestyle always aim to and must have the free time or they will get large amount of stress from both lifestyle and work. So , when we ask do people have time, we will say absolutely

of course. People is human not a robot. Then we consult again, what kind of activity do you possess when the spare time coming to you of course your answer may unlimited right. Then do you ever try this one, reading textbooks. It can be your alternative inside spending your spare time, often the book you have read is definitely Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices.

Paul Butler:

That book can make you to feel relax. This particular book Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices was multi-colored and of course has pictures on there. As we know that book Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices has many kinds or style. Start from kids until young adults. For example Naruto or Private eye Conan you can read and think you are the character on there. Therefore , not at all of book usually are make you bored, any it offers you feel happy, fun and rest. Try to choose the best book in your case and try to like reading which.

Virginia Laird:

As a pupil exactly feel bored for you to reading. If their teacher questioned them to go to the library or make summary for some reserve, they are complained. Just tiny students that has reading's spirit or real their pastime. They just do what the professor want, like asked to the library. They go to generally there but nothing reading seriously. Any students feel that looking at is not important, boring as well as can't see colorful images on there. Yeah, it is for being complicated. Book is very important for you personally. As we know that on this age, many ways to get whatever you want. Likewise word says, many ways to reach Chinese's country. So , this Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices can make you feel more interested to read.

Victor McDowell:

Reading a publication make you to get more knowledge from it. You can take knowledge and information originating from a book. Book is written or printed or created from each source in which filled update of news. Within this modern era like currently, many ways to get information are available for you. From media social like newspaper, magazines, science reserve, encyclopedia, reference book, book and comic. You can add your understanding by that book. Are you ready to spend your spare time to open your book? Or just looking for the Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices when you required it?

Download and Read Online Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices

From Brand: CRC Press #DHGKRN3C1OM

Read Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press for online ebook

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press books to read online.

Online Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press ebook PDF download

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press Doc

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press Mobipocket

Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices From Brand: CRC Press EPub