

Read Online
Management Of
Laboratory Animal
Managemen
Care And Use
Programs

Laborator
y Animal
Care And
Use
Programs

Praise for the

Read Online
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Laboratory Animal
Care And Use
Programs

Previous Editions "The author brings in management wisdom from the world outside laboratory animal medicine and veterinary medicine. As a result, there is a rich mixture of the

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Programs

experience of a
seasoned
professional
and the
theoretical
framework used
by schools of
management

I recommend
this book to
managers and
laboratory
animal

Read Online
Management Of
Laboratory Animal
specialists at
Care And Use
Programs
any stage of
their careers."

—Franklin M.
Loew, DVM, PhD,
DACLAM, JAVMA,
Vol. 222, No.
6, 2003 "...

This book is a
good
informational
resource for
any new manager

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

to the field of
laboratory
management. The
information is
presented in a
way that will
keep your
interest and
stimulate you
to think how it
can benefit you
and the
facility in

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Laboratory Animal
Care And Use
Programs

which you
work." –Susan
K. Cutter, BS,
RVT, RLATG,
Purdue
University,
West Lafayette,
Indiana, USA,
LAMA Review
Written in
Jerry
Silverman's
trademark

Read Online
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Laboratory Animal
Care And Use
Programs

style, Managing
the Laboratory
Animal

Facility, Third
Edition

provides the
reader with
sound

management
theory and
associated
management
practices that

Read Online Management Of Laboratory Animal Care And Use Programs

are easy to
read, easy to
understand,
easy to
implement, and
pertinent to
the daily
management and
leadership of
laboratory
animal
facilities.
Maintaining the

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

practical focus
of previous
editions, this
greatly
expanded volume
presents the
critical
knowledge
needed to help
you make
efficient and
effective use
of the key

Read Online
Management Of
Laboratory Animal
resources that
Care And Use
are used every
Programs
day by vivarium
managers –
people, time,
money, and
information.
New to the
Third Edition
Incorporating
the latest
developments in
management

Read Online
Management Of
Laboratory Animal
theory and
Care And Use
Programs

the edition
contains
approximately
100 pages of
new and
expanded
material. This
more detailed
coverage:
Discusses lean
management

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Management Of
Laboratory Animal
Care And Use
Programs

concepts and
practices and
their
application to
laboratory
animal science
Adds
information on
many essential
topics,
especially in
human resources
management in

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

its treatment
of
negotiations,
influence, and
performance
reviews

Provides a
large number of
revisions and
updates to
Appendix 2 in
its
presentation of

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

Per diem
calculations
Includes an
extensive list
of references
for further
study of
specialized
topics

Laboratory
Animal Medicine
is a
compilation of

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Management Of
Laboratory Animal
Care And Use
Programs

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

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Care And Use
Programs

techniques,
design and
management of
animal
facilities, and
legislation on
laboratory
animals.

Several papers
discuss the
biology and
diseases of
mice, hamsters,

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Programs

guinea pigs,
and rabbits.
Another paper
addresses the
dog and cat as
laboratory
animals,
including
sourcing of
these animals,
housing,
feeding, and
their

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Care And Use
Programs

nutritional needs, as well as breeding and colony management. The book also describes ungulates as laboratory animals, including topics on sourcing,

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Laboratory Animal
husbandry,
preventive
medical

treatments, and
housing
facilities. One
paper addresses
primates as
test animals,
covering the
biology and
diseases of old
world primates,

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Cebidae, and ferrets. Some papers pertain to the treatment, diseases, and needed facilities for birds, amphibians, and fish. Other papers then deal with

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Programs

techniques of experimentation, anesthesia, euthanasia, and some factors (spontaneous diseases) that complicate animal research. The text can prove helpful for scientists,

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Programs

clinical assistants, and researchers whose work involves laboratory animals.

Maintaining its user-friendly approach, The Care and Feeding of an IACUC: The

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Laboratory Animal
Care And Use
Programs
Organization
and Management
of an
Institutional
Animal Care and
Use Committee,
Second Edition
is a handy
guide for
members of the
laboratory
animal
community

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Care And Use
Programs

looking for a
concise,
descriptive
introduction to
what an IACUC
is all about
and how it
operates. The
book covers
training
programs and
discusses
professional

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Care And Use
Programs

certifications
for IACUC
administrative
and animal care
staff. It
provides
pointers to
principal
investigators,
discusses
interactions
between IACUCs
and other

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Care And Use
Programs

compliance
panels, and
addresses
occupational
health and
safety programs
and the role
they play in
the overall
animal care and
use program.
This new
edition of a

Read Online
Management Of
Laboratory Animal
bestseller
Care And Use
Programs
contains new
information on
international
regulations
regarding
animal subject
research and
the
requirements
for an ethics
panel review.
It discusses

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Management Of
Laboratory Animal
Care And Use
Programs

outside
collaborations,
interinstitutional
memorandums
of
understanding,
and the
differences in
regulations
between
countries. The
book also
includes a new

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Management Of
Laboratory Animal

chapter
exploring
semiannual
program
reviews,
semiannual
inspections,
and
postapproval
monitoring. The
contributors
provide updated
information on

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Laboratory Animal
Care And Use
Programs

the protocol
submission
process,
electronic
protocol
management
systems, and
records managem
ent—including
the essential
elements of the
protocol form
and how to

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Laboratory Animal
Care And Use
Programs

complete it.
The book also
delves deeply
into bioethics.
It discusses
how IACUCs can
ensure that
each proposal
to use animals
in research
includes an
ethical review
with a

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Management Of
Laboratory Animal
Care And Use
Programs

harm–benefit
analysis
weighing the
expected
advancements in
human and
animal health
against the
potential harm
inflicted to
the animal.
Also included
is a chapter on

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Laboratory Animal
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Programs

how to survive
a regulatory
inspection or
an
accreditation
site visit. All
interpretations
of the
regulations
have been
reviewed by
staff at the
NIH Office of

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Laboratory Animal
Care And Use
Programs
Laboratory
Animal Welfare
(OLAW), the
Animal Welfare
Information
Center (AWIC),
and USDA
APHIS/Animal
Care (AC) for
consistency and
compliance with
the PHS Policy
and the USDA

Read Online
Management Of
Laboratory Animal
Animal Welfare
Care And Use
Act Regulations
Programs
(AWAR).

This 30-chapter
volume informs
students and
professionals
about the
behavioral
biology of
animals
commonly housed
in laboratory

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and other captive settings. Each species evolved under specific environmental conditions, resulting in unique behavioral patterns, many of which are maintained in

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Programs

captivity even
after
generations of
breeding.

Understanding
natural
behavior is
therefore a
critical part
of modern
animal care
practices. The
descriptions,

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Management Of
Laboratory Animal
Care And Use
Programs

data, guidance,
resources, and
recommendations
in this book
will help the
reader
understand
their animals
better, refine
the care and
treatment that
they receive,
and improve the

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Laboratory Animal
Care And Use
Programs

well-being,
welfare, and
wellness of
their animals.
The book is
divided into
three sections,
all focusing on
aspects of the
behavioral
biology of
animals found
in laboratories

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Laboratory Animal
Care And Use
Programs

and related
research
settings. After
five
introductory
chapters, 25
chapters are
dedicated to
specific
taxonomic
groups
(including
mice,

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Laboratory Animal
Care And Use
Programs

zebrafish,
zebra finches,
reptiles,
macaques) while
a concluding
section of
ethograms
provides a
centralized
resource for
those
interested in
understanding,

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Laboratory Animal
Care And Use
Programs

and potentially
quantifying,
animal
behavior. The
Behavioral
Biology of
Laboratory
Animals will
provide anyone
working in
maintenance,
care, and/or
research

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Laboratory Animal
Care And Use
Programs

programs that
involve
laboratory
animals with
information
about the way
the animals
live in the
wild, and the
way that they
should live in
captive
research

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settings. Many of the guidelines and recommendations will also be valuable to those managing and working with animals in other environments, including zoological

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Programs
parks, aquaria,
and
sanctuaries.

Managing the
Laboratory
Animal Facility
The IACUC
Administrator's
Guide to Animal
Program
Management
Management of
Animal Care and

Read Online
Management Of
Laboratory Animal
Use Programs in
Care And Use
Programs
Education, and
Testing
Handbook on
Care and
Management of
Laboratory and
Pet Animals
Guide for the
Care and Use of
Laboratory
Animals - -

Read Online
Management Of
Laboratory Animal
Russian Version

Reader-friendly and
engaging, SMALL
ANIMAL CARE AND
MANAGEMENT,
Fourth Edition, offers
a comprehensive
guide to the care and
husbandry of small
animals. Through a
logical flow of
information, it
introduces readers to
the basics of the small

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animal industry, including the history, safety concerns and care and welfare of these animals before diving into the specifics of each, with chapters covering dogs, cats, reptiles, birds, fish and exotic species. Full-color photos and illustrations visually depict various breeds

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and their characteristics, anatomy, handling techniques, housing and other care concerns to facilitate learning, while activities and additional resources offer the opportunity for application and further study.

Important Notice:

Media content

Read Online Management Of Laboratory Animal Care And Use Programs

referenced within the product description or the product text may not be available in the ebook version.

Introduction to
Laboratory Animal
Science and
Technology discusses
the principles involved
in the healthy
maintenance of
animals in the
laboratory or animal

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Laboratory Animal
Care And Use
Programs

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,

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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

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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

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use in laboratory
work.

Key features:

Presents practical
information in easily
accessible 'bullet
point' format Covers
anesthetic machine
and related
equipment, anesthetic
management and
monitoring,
anesthesia and
analgesia

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Management Of
Laboratory Animal
pharmacology,
Care And Use
euthanasia, and
Program
record keeping

Written by well-
recognized experts in
the laboratory animal
community Provides
extensive references
to direct the reader to
sources for further
study of alternative
techniques and their
procedures
Concludes with a

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thorough chapter on
Regulatory
Management of
Rodent Anesthesia
which has global
application Rodents
are the most
commonly used
species in biomedical
research. Individuals
conducting rodent
research are often
responsible to ensure
that all areas of

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anesthesia and analgesia are performed humanely. Anesthetic agent selection, anesthetic monitoring, and postoperative pain assessment and management are essential to the institutional animal care and use program and contribute significantly to the

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Programs

3Rs by reducing pain and/or distress and refining various procedures. The Handbook of Laboratory Animal Anesthesia and Pain Management: Rodents is the first book to capture multiple advances in this important area that greatly impacts various experimental

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methodologies. Richly illustrated in full color, the book serves as a quick reference source for investigators, veterinarians, technicians, and other animal caretakers charged with the care and use of rodents in a research setting. The unique format of this book also makes

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it extremely valuable to IACUC members, institutional officials, and occupational health and safety professionals.

This book provides a basic understanding of management and leadership concepts in laboratory animal science. It presents theoretical and practical information

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Care And Use
Programs
needed to become an
effective and efficient
manager of laboratory
animal facility

resources.

The IACUC

Handbook, Third
Edition

Small Animal Care
and Management

Behavioral Biology of
Laboratory Animals

Laboratory Animal
Welfare

Read Online
Management Of
Laboratory Animal
Essentials of
Care And Use
Programs

Laboratory Animal
Science: Principles
and Practices

*Laboratory
animals,
including dogs,
play an
important role
in biomedical
research and
medical
advances. Dogs*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*have a long
history of use
in research and
have
contributed
enormously to
the health and
welfare of both
humans and
animals. The
humane care and
management of
these animals*

Read Online
Management Of
Laboratory Animal

is a

fundamental

component of

their use in

medical

research. The

Laboratory

Canine clearly

presents basic

background

information

covering

subjects that

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*apply
specifically to
dogs used in
research
settings, such
as basic
biological
features,
husbandry,
management,
veterinary
care,
experimental*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*methodology,
and resources.
The book offers
guidance on
performing a
detailed
physical
examination,
including
necessary
veterinary
supplies,
clinical signs*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*of illness,
clinical
conditions, and
reference
tables of
widely used
veterinary
drugs. It
discusses the
human-animal
bond or the
relationship
between people*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*and animals and
its
significance
and importance
to the quality
of research,
the health of
the animals,
and the
emotional
health of staff
caring for or
working with*

Read Online
Management Of
Laboratory Animal
animals. It
Care And Use
Programs
also examines
anesthetic and
surgical
procedures that
include pre-,
intra-, and pos
t-anesthesia/op
erative
monitoring. The
Laboratory
Canine contains
reference

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*charts for
monitoring
patients
through post-
operative
recovery and
reference
tables for
anesthetics and
analgesics.
Because dogs
are a highly
visible species*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*in the eyes of
the public and
regulators, it
is important
that
individuals
working with
laboratory
canines have
the proper
training and
experience.*

This valuable

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*resource is
ideal for those
charged with
the care and
use of canines
in a research
setting.*

*Much has been
written about
the care of
research
animals. Yet
little guidance*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*has appeared on
protecting the
health and
safety of the
people who care
for or use
these animals.
This book, an
implementation
handbook and
companion to
Guide For the
Care and Use of*

Read Online
Management Of
Laboratory Animal

*Laboratory
Animals,
identifies
principles for
building a
program and
discusses the
accountability
of
institutional
leaders,
managers, and
employees for a*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*program's
success. It
provides a
detailed
description of
risks--
physical and
chemical
hazards,
allergens and
zoonoses, and
hazards from ex
periments--whic*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*h will serve as
a continuing
reference for
the laboratory.
The book offers
specific
recommendations
for controlling
risk through
administrative
procedures,
facility
design,*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*engineering
controls, and
periodic
evaluations.*

*The volume
focuses on the
worker, with
detailed
discussions of
work practices,
the use of
personal
protective*

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Management Of
Laboratory Animal
Care And Use
Programs

gear, and the development of an emergency response plan. This handbook will be invaluable to administrators, researchers, and employees in any animal research facility. It

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Management Of
Laboratory Animal
Care And Use
Programs

*will also be of
interest to
personnel in
zoos, animal
shelters, and
veterinary
facilities.*

*Laboratory
Animal Welfare
provides a
comprehensive,
up-to-date look
into the new*

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Management Of
Laboratory Animal
Care And Use
Programs

*science of
animal welfare
within*

*laboratory
research.*

*Animals
specifically
considered
include*

*rodents, cats
and dogs,
nonhuman
primates,*

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Management Of
Laboratory Animal
Care And Use
Programs

*agricultural
animals, avian
animals and
aquatic
animals. The
book examines
the impact of
experiment
design and
environment on
animal welfare,
as well as
emergency*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs
*situations and
euthanasia
practices.*

*Readers will
benefit from a
review of
regulations and
policy
guidelines
concerning lab
animal use, as
well as
information on*

Read Online
Management Of
Laboratory Animal
assessing
Care And Use
animal welfare.
Programs
With

*discussions of
the history and
ethics of
animals in
research, and a
debate on
contemporary
and
international
issues, this*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*book is a go-to
resource for
laboratory
animal welfare.*

*The use of
animals in
research
adheres to
scientific and
ethical
principles that
promote humane
care and*

Read Online
Management Of
Laboratory Animal
practice.

Care And Use
Programs
Scientific

*advances in our
understanding
of animal
physiology and
behavior often
require
theories to be
revised and
standards of
practice to be
updated to*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*improve
laboratory
animal welfare.
Recognition and
Alleviation of
Pain in
Laboratory
Animals, the
second of two
reports
revising the
1992
publication*

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Management Of
Laboratory Animal
Care And Use
Programs

**Recognition and
Alleviation of
Pain and**

Distress in

Laboratory

Animals from

the Institute

for Laboratory

Animal Research

(ILAR), focuses

on pain

experienced by

animals used in

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Laboratory Animal
Care And Use
Programs

**research. This
book aims to
educate
laboratory
animal
veterinarians;
students,
researchers and
investigators;
Institutional
Animal Care and
Use Committee
members; and**

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Management Of
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Care And Use
Programs

*animal care
staff and
animal welfare
officers on the
current
scientific and
ethical issues
associated with
pain in
laboratory
animals. It
evaluates
pertinent*

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

*scientific
literature to
generate
practical and
pragmatic
guidelines for
recognizing and
alleviating
pain in
laboratory
animals,
focusing
specifically on*

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Laboratory Animal
Care And Use
Programs

*the following
areas:
physiology of
pain in
commonly used
laboratory
species;
pharmacologic
and non-
pharmacologic
principles to
control pain;
identification*

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Laboratory Animal
Care And Use
Programs

of humane endpoints; and principles for minimizing pain associated with experimental procedures. Finally, the report identifies areas in which further scientific

Read Online
Management Of
Laboratory Animal
investigation
is needed to
improve

laboratory
animal welfare.

The Laboratory
Canine

Animal-centric
Care and

Management

Laboratory

Animal

Anaesthesia

Read Online
Management Of
Laboratory Animal
Care And Use
Programs
**Guide for the
Care and Use of
Laboratory
Animals**

**Regulations and
Recommendations
for the Care
and Use of
Animals in
Research**

*This bestseller has
been an essential*

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Laboratory Animal
Care And Use
Programs

*book for all those
working with
laboratory animals
since it was first
published in 1994.
This fourth edition
retains all the classic
features that have
made it a must-have
reference including
emphasis on best
practice in order to*

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Programs

improve animal welfare. The contents have been thoroughly updated and reorganised to make sure it is a really practical book for day-to-day use in the laboratory.

The first section of the book covers principles applicable

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Programs

to all species, for example husbandry, handling and the education and training required by scientists and technical staff working with animals in the laboratory.

Later chapters focus on specific species or groups of species.

New to this edition: •

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Care And Use
Programs

*Reflects changes in
European legislation
and their impact on
national legislation •*

*Covers
recommendations for
the education and
training of those
carrying out animal
experiments across
Europe • New
chapters on ethical*

Read Online
Management Of
Laboratory Animal
*considerations and
balancing animal
welfare with science*

- *New information on environmental enrichment for laboratory animals*
- *Covers advancements in anaesthesia and analgesia and techniques*

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Spiral bound for ease-of-use as a bench-top preference This book is ideal for all personnel carrying out scientific procedures using animals, particularly during training and also for the new researcher. It will

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Programs

*also be essential
reading for study
directors designing
research
programmes, animal
technicians and
veterinarians working
with laboratory
animal species.*

*This book examines
the general principles
of laboratory animal*

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Programs

maintenance and experimental use as well as factors that have to be taken into account when good research is done with animals. In addition, it provides species specific coverage, concentrating on the species most used as laboratory animals.

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Programs

The book gives a comprehensive description of the welfare questions considered to be important for each species under laboratory conditions.

COST (European Cooperation in the field of Scientific

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Programs

*and Technical
Research) is an
intergovernmental
initiative in science
and research
intended to promote
the coordination of
nationally funded
research in Europe.
Four working groups
discuss the housing of
animals, their*

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Laboratory Animal
*environmental needs,
refinement of
procedures,*

*genetically modified
animals, and cost-
benefit analysis.*

*Based on the
activities of these
working groups, this
book provides the
European best
practices for*

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Laboratory Animal
Care And Use
Programs

individuals and institutions working with laboratory animals. The text also discusses the ethical evaluation of experiments and procedures involving animals.

A respected resource for decades, the Guide for the Care

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Management Of
Laboratory Animal
*and Use of
Laboratory Animals
Care And Use
Programs*
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*

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Programs

*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*

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Programs

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

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Programs

*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*

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Programs

*and aquatic animals
and provides
recommendations for
housing and
environment,
husbandry,
behavioral and
population
management, and
more. Veterinary
care. The Guide
discusses veterinary*

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Laboratory Animal
*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*

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Programs

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

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Programs

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*

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Care And Use
Programs

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

Read Online
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Laboratory Animal
care personnel,
Care And Use
facilities managers,
Programs
institutional

administrators, policy
makers involved in
research issues, and
animal welfare
advocates.

Clinical Laboratory
Animal Medicine
Guide for the Care
and Use of

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

Laboratory Animals

-- *Japanese Edition*

The Care and

Feeding of an

IACUC

The UFAW

Handbook on the

Care and

Management of

Laboratory and

Other Research

Animals

Read Online
Management Of
Laboratory Animal
*Enhancing
Care And Use
Refinement in
Programs
Biomedical Research*

**Expanding on the
National Research
Council's™ Guide
for the Care and Use
of Laboratory
Animals, this book
deals specifically
with mammals in
neuroscience and**

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Management Of
Laboratory Animal
Care And Use
Programs

**behavioral research
laboratories. It
offers flexible
guidelines for the
care of these
animals, and
guidance on
adapting these
guidelines to various
situations without
hindering the
research process.
Guidelines for the**

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Programs

Care and Use of Mammals in Neuroscience and Behavioral Research offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important

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Care And Use
Programs

**role that the
researcher and
veterinarian play in
developing animal
protocols. Methods
for assessing and
ensuring an
animal's well-
being. General
animal-care elements
as they apply to
neuroscience and
behavioral research,**

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Programs

and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being

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Management Of
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Care And Use
Programs

**and high-quality
research. Guidelines
for the Care and Use
of Mammals in
Neuroscience and
Behavioral Research
treats the
development and
evaluation of animal-
use protocols as a
decision-making
process, not just a
decision. To this end,**

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Programs

it presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the intricacies of neuroscience and behavioral research. Care and use of animals in research are expensive, prompting efforts to

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Programs

contain or reduce costs. Components of those costs are personnel, regulatory compliance, veterinary medical care, and laboratory animal management, equipment, and procedures. Many efforts have been made to control and reduce personnel

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Programs

costs, the largest contributing factor to cost, through better facility and equipment design, more efficient use of personnel, and automation of many routine operations. However, there has been no comprehensive, recent analysis of the

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various cost components or examination of the strategies that have been proven or are purported to decrease the cost of animal facility operation. Strategies that Influence Cost Containment in Animal Research Facilities examines

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the current interpretation of governmental policy (Office of Management and Budget Circular A-21) concerning institutional reimbursement for overhead costs of an animal research facility and describes methods for

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Programs
**economically
operating an animal
research facility.**

**This report develops
recommendations by
which federal
auditors and
research institutions
can establish what
cost components of
research animal
facilities should be
charged to**

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Programs

**institutions' indirect
cost pool and what
animal research
facility cost
components should
be included in the
per diem charges to
investigators, and
assesses the financial
and scientific
ramifications that
these criteria would
have among**

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Programs

**federally funded
institutions. Further,
the report
determines the cost
components of
laboratory animal
care and use in
biomedical research
and assesses and
recommends
methods of cost
containment for
institutions**

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**maintaining animals
for biomedical
research.**

**Preceded by
Management of
laboratory animal
care and use
programs / edited by
Mark A. Suckow,
Fred A. Douglas,
Robert H.
Weichbrod. c2002.
The concept of the**

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Programs

3Rs (Refinement, Reduction and Replacement) has been used as a framework for improving the welfare of laboratory animals for the last half century. By establishing an animal-centric view on housing and management,

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Programs

**Animal-centric Care
and Management:
Enhancing**

**Refinement in
Biomedical Research
takes Russell and
Burch's definition of
Refinement as
"elimination of
inhumanities" and
goes further. Rather
than fitting animals
into experimental**

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Programs

conditions, it encourages readers to adjust conditions to better meet the behavioral, emotional, physical, and physiological needs and preferences of the animals. The team of expert authors, from the fields of laboratory animal

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Programs

**science, ethology,
biology as well as
animal training,
provide ideas for
creating housing
conditions and
handling procedures
that induce, to the
best of current
abilities and
knowledge, a long-
term positive state of
mind in the animals**

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Programs

under our care. This book is written for animal caretakers, animal health technicians, researchers, animal facility managers, laboratory animal veterinarians, and anyone who engages in work with living experimental animals or is

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interested in the continuous improvement of laboratory animal welfare. This interdisciplinary guide will act as a catalyst, resulting in multiple viewpoints and fields collaborating to optimize laboratory animal welfare.

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Programs

**Introduction to
Laboratory Animal
Science and
Technology
Rodents
Handbook of
Laboratory Animal
Anesthesia and Pain
Management
Eighth Edition
Critical Care
Management for
Laboratory Mice and**

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

Rats
Laboratory
Animals:

Regulations and
Recommendations
for the Care and
Use of Animals in
Research, Second
Edition, is the only
publication to offer
a global
compilation of

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Management Of
Laboratory Animal
Care And Use
Programs

standards on the care, welfare and use of animals in research. The book provides updated information that will be of great interest to professionals across laboratory animal science

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Care And Use
Programs

and biomedical
research. Users
will find a broad
picture of the
regulations
required in other
areas of the world
that will be
essential to
appropriately
manage animal
care and use

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Care And Use
Programs

programs. Offers a
worldwide view
and global

compilation of
regulations,
guidelines and
recommendations
for laboratory
animal research

Provides insight
into factors that
play key roles in

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Laboratory Animal
Care And Use
Programs

the regulatory
framework for
countries and
geographic
regions Compares
and contrasts
regulations in
different regions
Written in layman ' s
terms to easily
understand
legislation and

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Laboratory Animal
regulations
Care And Use
Programs

Management of
Animal Care and
Use Programs in
Research,
Education, and
TestingCRC Press
For critical care of
laboratory rodents,
there is a scarcity
of sources for
comprehensive,

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Laboratory Animal
Care And Use
Programs

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

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Management Of
Laboratory Animal
management,
Care And Use
many treatment
Programs
approaches to

veterinary
emergencies
cannot be applied
directly to the
laboratory rodent.
The first text of its
kind devoted to the
challenges of
critical care

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Management Of
Laboratory Animal
Care And Use
Programs
management for
laboratory rodents,
Critical Care

Management for
Laboratory Mice
and Rats provides
a specialized
resource for all
veterinary,
husbandry,
technical, and
research

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Programs

professionals who utilize rodent models for biomedical research. The book covers the varied approaches to laboratory rodent patient care, health assessments, characteristics of

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Programs

specific disease
models, monitoring
and scoring of
disease
parameters, and
humane
interventions.

Giving primary
consideration to
preservation of
animal health and
welfare, the text

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Laboratory Animal
Care And Use
Programs

also considers how best to balance welfare with the achievement of proposed scientific objectives.

Organized into five chapters, this full-color book covers the following topics: General Approaches for

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Programs

Critical Care
Critical Care
Management for
Laboratory Mice
Critical Care
Management for
Laboratory Rats
Special
Considerations for
Critical Care
Management in
Laboratory

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Management Of
Laboratory Animal
Rodents
Care And Use
Resources and
Programs
Additional

Information The
author provides
treatment
guidelines with the
expectation that
they will be applied
with apt
professional
judgment, allowing

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Management Of
Laboratory Animal
Care And Use
Programs

for further
modification of
clinical
recommendations
for improved
patient-based care
and welfare for
research animals.
The management
of biomedical
research using
animals has

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become increasingly complex due to new technology, increased regulatory oversight, and recognition of the need for animals free of disease and distress. Within this

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Laboratory Animal
Care And Use
Programs

changing
environment,
individuals
charged with the
management of
laboratory animal
facilities have a
substantial
responsibility to
the institution, the
public, and the
animals.

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Laboratory Animal
Care And Use
Programs

Management of
Laboratory
Animals Care and
Use Programs
provides both
factual and
theoretical
information drawn
from the
substantial
experience of
authors who are

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Management Of
Laboratory Animal
Care And Use
Programs

noted experts in
the field. This book
will provide

individuals with the
basic knowledge
and information
necessary to meet
typical professional
challenges. A co-
publication with
the American
Association for

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Management Of
Laboratory Animal
Care And Use
Programs
Laboratory Animal
Science, this
valuable book

serves as the text
for the Certified
Manager Animal
Resources
(CMAR) exam.

Laboratory Animal
Medicine
Refinement,
Reduction, and

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Management Of
Laboratory Animal
Research
Care And Use
Programs
Laboratory Animal
Management

Setting Up and
Directing an
IACUC Office

Dogs

***Ever since its
establishment
by USDA
regulation in
the mid-1980s,***

Read Online
Management Of
Laboratory Animal
the
Institutional
Animal Care
and Use
Committee
(IACUC) has
evolved as the
premier
instrument of
animal welfare
oversight
within

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Management Of
Laboratory Animal
**research
institutions in
the United
States. As
biomedical
research
continuously
grows, the
role and
impact of the
IACUC has
increased in**

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

***scope and
complexity.
The IACUC
Handbook has
become "the
Bible" for
individuals
when the time
comes for
them to serve
on their
institution's***

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Laboratory Animal
Care And Use
Programs

IACUC. It provides a foundation for understanding and implementing the many and varied responsibilities of this committee. This Third

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Laboratory Animal
Care And Use
Programs

Edition comprehensively addresses the significant changes in the pertinent regulatory environment and interpretation of applicable federal laws,

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Management Of
Laboratory Animal
**regulations,
and policies. It
provides
multiple
references and
commentary
on the new
edition of the
Guide for the
Care and Use
of Laboratory
Animals, the**

Read Online
Management Of
Laboratory Animal
**new AVMA
Guidelines for
the Euthanasia
of Animals:
2013 Edition,
and the Office
of Laboratory
Animal
Welfare's
Frequently
Asked
Questions. The**

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Management Of
Laboratory Animal
Care And Use
Programs

***Third Edition
also features
an updated
survey of
IACUC
practices from
institutions
around the
United States,
offering
wisdom gained
from their***

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Laboratory Animal
Care And Use
Programs

experience. In addition, it includes a chapter that provides an international perspective on how animal welfare reviews can function in other

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Management Of
Laboratory Animal
Care And Use
Programs

***countries.
This newly
revised edition
incorporates
the regulatory
requirements
and improved
practices for
laboratory
animal care
that have
developed***

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Management Of
Laboratory Animal
Care And Use
Programs

***over the past
two decades.
The volume***

***covers
Selection of
dogs as
research
models.***

***Design,
construction,
and
maintenance***

Read Online
Management Of
Laboratory Animal
of facilities.
Care And Use
Programs
Temperature,
humidity,
food, water,
bedding,
sanitation,
animal
identification,
record
keeping, and
transportation
. General

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Management Of
Laboratory Animal
Care And Use
Programs

***veterinary
care, as well
as special care
of breeding
animals and
random-source
animals.***

***Laboratory
Animal
Management:
Dogs
examines***

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Management Of
Laboratory Animal
Care And Use
Programs

***controversies
over proper
cage sizes and
interpretation
of federal
requirements
for exercise
and offers rec
ommendations
for
researchers.
Guidelines are***

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

***provided on
how to
recognize and
alleviate pain
and distress in
research dogs
and on the
sensitive topic
of euthanasia.
Laboratory
Animal
Management:***

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Management Of
Laboratory Animal
Care And Use
Programs

Dogs discusses how to assemble a proper research protocol and how to handle conflicts. Outlined are procedures for institutional animal care

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Management Of
Laboratory Animal
Care And Use
Programs

***and use and
committee
review. The
volume also
presents
guidelines for
handling aging
dogs, use of
radiation in
experiments,
and a wide
range of other***

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Management Of
Laboratory Animal
Care And Use
Programs

**special
circumstances.
Thoroughly
referenced,
this guide will
be
indispensable
to
researchers,
research
administrators
, review**

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Management Of
Laboratory Animal
**committees,
and others
concerned**

**about
laboratory
dogs.**

**AAP Prose
Award Finalist
2018/19**

**Management
of Animal Care
and Use**

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Management Of
Laboratory Animal
Care And Use
Programs

***Programs in
Research,
Education, and
Testing,
Second Edition
is the
extensively
expanded
revision of the
popular
Management
of Laboratory***

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Management Of
Laboratory Animal
Care And Use
Programs

**Animal Care
and Use
Programs
book**

***published
earlier this
century.***

***Following in
the footsteps
of the first
edition, this
revision***

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Management Of
Laboratory Animal
Care And Use
Programs

***serves as a
first line
management
resource,
providing for
strong
advocacy for
advancing
quality animal
welfare and
science
worldwide,***

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

***and continues
as a valuable
seminal***

***reference for
those engaged
in all types of
programs
involving
animal care
and use. The
new edition
has more than***

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Management Of
Laboratory Animal
Care And Use
Programs

***doubled the
number of
chapters in
the original
volume to
present a
more
comprehensiv
e overview of
the current
breadth and
depth of the***

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Management Of
Laboratory Animal
Care And Use
Programs

***field with
applicability to
an***

***international
audience.***

***Readers are
provided with
the latest
information
and resource
and reference
material from***

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

**authors who
are noted
experts in
their field. The
book: -
Emphasizes
the
importance of
developing a
collaborative
culture of care
within an**

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Management Of
Laboratory Animal
Care And Use
Programs

***animal care
and use
program and
provides
information
about how
behavioral
management
through
animal
training can
play an***

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Laboratory Animal
Care And Use
Programs

***integral role in
a veterinary
health***

***program -
Provides a
new section on
Environment
and Housing,
containing
chapters that
focus on
management***

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Management Of
Laboratory Animal
Care And Use
Programs

**considerations
of housing and
enrichment
delineated by
species -
Expands
coverage of
regulatory
oversight and
compliance,
assessment,
and assurance**

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Laboratory Animal
Care And Use
Programs

***issues and
processes,
including a
greater
discussion of
globalization
and
harmonizing
cultural and
regulatory
issues -
Includes more***

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Management Of
Laboratory Animal
Care And Use
Programs

***in-depth
treatment
throughout
the book of
critical topics
in program
management,
physical plant,
animal health,
and
husbandry.
Biomedical***

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Management Of
Laboratory Animal
Care And Use
Programs

**research using
animals
requires
administrators
and managers
who are
knowledgeabl
e and highly
skilled. They
must adapt to
the complexity
of rapidly-**

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Management Of
Laboratory Animal
Care And Use
Programs

**changing
technologies,
balance**

**research goals
with a
thorough
understanding
of regulatory
requirements
and
guidelines,
and know how**

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

***to work with a
multi-
generational,
multi-cultural
workforce.
This book is
the ideal
resource for
these
professionals.
It also serves
as an***

Read Online
Management Of
Laboratory Animal
indispensable
Care And Use
resource text
Programs
for

**certification
exams and
credentialing
boards for a
multitude of
professional
societies Co-
publishers on
the second**

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Care And Use
Programs

edition are:

ACLAM

**(American
College of
Laboratory
Animal
Medicine);**

ECLAM

**(European
College of
Laboratory
Animal**

Read Online
Management Of
Laboratory Animal
Medicine);
IACLAM
Care And Use
Programs

**(International
Colleges of
Laboratory
Animal
Medicine);**
JCLAM

**(Japanese
College of
Laboratory
Animal**

Read Online
Management Of
Laboratory Animal
Medicine);
Care And Use
KCLAM
Programs

**(Korean
College of
Laboratory
Animal
Medicine);**
CALAS
**(Canadian
Association of
Laboratory
Animal**

Read Online
Management Of
Laboratory Animal
Medicine);
LAMA
(Laboratory
Animal
Management
Association);
and IAT
(Institute of
Animal
Technology).
The IACUC Ad
ministrators

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Laboratory Animal
Care And Use
Programs

**Guide to
Animal
Program**

**Management
supports
IACUC**

**administrators
who assist
with**

**developing,
managing, and
overseeing a**

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Management Of
Laboratory Animal
Care And Use
Programs

***program of
animal care
and animal
use. It
provides many
options and
possibilities
for specific
operational
practices (e.g.,
how to build a
well-***

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Laboratory Animal
Care And Use
Programs

***functioning
IACUC, what a
functional
protocol
template looks
like) to satisfy
regulatory
requirements.
The material
provided is a
compilation of
several years***

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Management Of
Laboratory Animal
Care And Use
Programs

***of Best
Practices (BP)
meetings
among IACUC
administrators
across the
country. The
BP meetings
included repre
sentatives
from the
NIH/OLAW,***

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Laboratory Animal
Care And Use
Programs

**AAALAC, and
the USDA,
whose
presence and
dialogue
assured the
BP discussion
met or
exceeded all
regulatory or
accreditation
minimum**

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Management Of
Laboratory Animal
Care And Use
Programs

***standards. BP
meeting
attendees
from private,
public,
governmental,
and academic
organizations
have helped to
shape and
develop the
information***

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Management Of
Laboratory Animal
Care And Use
Programs

***offered herein.
It is through
the insight of
several
hundred collea
gues—their
successes as
well as their
failures—that
the authors
have distilled
suggestions***

Read Online
Management Of
Laboratory Animal
and
Care And Use
Programs
considerations
for your local
animal care
and use
program. This
handbook
complements
other useful
references and
manuals
regarding

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Management Of
Laboratory Animal
Care And Use
Programs

***programmatic
function—it is
not intended
to replace
them. The
primary
difference you
will find is the
transparent
and open
nature of
describing***

Read Online
Management Of
Laboratory Animal
Care And Use
Programs

***processes that
have been
time tested
and proven to
help you and
your
organization
satisfy the
regulatory
requirements.
Management
of Laboratory***

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Management Of
Laboratory Animal
Care And Use
Programs

***Animal Care
and Use
Programs
Handbook of
Laboratory
Animal
Management
and Welfare
Public Health
Service Policy
on Humane
Care and Use***

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Care And Use
Programs

***of Laboratory
Animals
Occupational
Health and
Safety in the
Care and Use
of Research
Animals
Recognition
and Alleviation
of Pain in
Laboratory***

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Animals
Care And Use
Programs

Clinical
Laboratory
Animal
Medicine: An
Introduction,
Fourth Edition
offers a user-
friendly guide
to the unique
anatomy and
physiology,

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Care And Use
Programs

care, common diseases, and treatment of small mammals and nonhuman primates.

Carefully designed for ease of use, the book includes tip boxes, images,

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and review
questions to
aid in

comprehension
and learning.

The Fourth
Edition adds
new

information on
transgenic
mice, drug
dosages,

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Laboratory Animal
Care And Use
Programs

techniques,
and
environmental
enrichment,
making the
book a
comprehensive
working manual
for the care
and
maintenance of
common

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laboratory animals. The book includes information on topics ranging from genetics and behavior to husbandry and techniques in mice, rats, gerbils, hamsters,

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guinea pigs,
chinchillas,
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the care of
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the world. The
book focuses
on best
practice
principles
throughout, pr
oviding compreh
ensive
coverage, with
all chapters
being peer

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reviewed
by anonymous
referees. As
well as
addressing the
husbandry
of laboratory
animals, the
content is
also of great
value to zoos
and aquaria.

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areas of
growing
concern,
including: the
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and
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design; welfar
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legislation;
training of

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for lab
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This book comprehensively reviews the anatomy, physiology, genetics and pathology of laboratory animals as well as the principles and practices of

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using
laboratory
animals for
biomedical
research.It
covers the
design of
buildings used
for laboratory
animals,
quality
control of

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laboratory animals, and toxicology, and discusses various animal models used for human diseases. It also highlights aspects, such as handling

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and restraint
and
administration
of drugs, as
well as
breeding and
feeding of
laboratory
animals, and
provides
guidelines for
developing

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meaningful
experiments
using
laboratory ani
mals. Further,
the book
discusses
various
alternatives
to animal
experiments
for drug and

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chemical testing, including their advantages over the current approaches. Lastly, it examines the potential effect of

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harmful
pathogens on
the physiology
of laboratory
animals and
discusses the
state of art
in in vivo
imaging
techniques. The
book is a
useful

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resource for
research
scientists,
laboratory
animal
veterinarians,
and students
of laboratory
animal
medicine.

It is now an
established

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fact that laboratory animals play a very vital role in biochemical research particularly in the drug development programmes. The book

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Includes comprehensive and updated information on all the topics, which is presented in a precise manner in a simple language, which becomes

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easy for
students to
understand.

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the touch of
personal
communication
of authors out
of their
enriched
experience in
profession,

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for
considerable
long time, the
information
becomes more
educative and
lucrative for
students as
well as for
the teacherThe
book contains
information on

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pet animals
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and animal
welfare and
ethics.

The COST
Manual of
Laboratory
Animal Care
and Use

The Welfare of
Laboratory

Page 242/273

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Animals
Care And Use
The
Programs

Organization
and Management
of an
Institutional
Animal Care
and Use
Committee,
Second Edition
Fundamentals
of Laboratory

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Animal Science

*The framers of
the 1985*

amendments to

the Federal

Animal Welfare

Act (AWA)

envisioned the

Institutional

Animal Care and

Use Committee

(IACUC) as the

linchpin--the

central and

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*cohesive
element--of the
laboratory
animal care and
use program at
research,
education, and
testing
organizations.
Effective
operation of
this committee
is essential if
these*

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*organizations
are to achieve
full regulatory
compliance, and,
more
importantly,
retain the
public's support
for activities
involving the
use of animal
subjects. In
1987, the
Scientists*

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Laboratory Animal

*Center for
Animal Welfare,
in cooperation*

*with the
American
Association for
Laboratory
Animal Science,
published a
compilation of
presentations
made at five
regional
workshops on*

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*effective
operation of
IACUCs. In the
decade since
this compilation
was published,
nearly all of
the 18 consensus
recommendations
developed by the
workshop
participants and
the Center's
Board of*

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Trustees have either been incorporated into the AWA regulations or have been voluntarily adopted by institutions using animals subjects. The Care and Feeding of an IACUC: The Organization and

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Programs

*Management of an
Institutional
Animal Care and
Use Committee
superbly
illustrates the
progress and
advances the
animal-using
communities have
made in
implementing
these and other
improvements in*

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*their animal
care and use
programs. The
highly qualified
contributors
provide twelve i
nformation-
packed chapters
and ten
appendices that
provide IACUC
chairs and
members with an
indispensable*

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reference. This book summarizes information critical to the effective and efficient management and operation of an IACUC, and, as such, should be made available to IACUC members and administrative

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*officials in
every
institution
using laboratory
animals.*

*Laboratory
Animal*

*Anesthesia looks
at recent
significant
developments in
anesthetic
practices in
laboratory*

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experiments involving animals. It also provides information about basic standards for proper use of anesthesia. In addition, it examines the equipment and different anesthetic

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agents that are used in performing an experiment on animals. The book also discusses the profound effects of anesthesia on the physiological aspect of the animals' body systems, such as

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hypothermia and respiratory depression. The book addresses the proper management and care that should be provided for the animals that undergo anesthesia. Furthermore, it covers different anesthetic

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procedures that should be used on various kinds of small animals intended for laboratory experiments. The main goal of this book is to provide information about the different anesthetic

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agents used in experiments, and the proper standards to follow when using anesthetics on lab animals. • New edition provides new information on anesthesia and analgesia, and has an

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*extensively
revised and
updated
bibliography •*

*Provides a
balanced
consideration of
the needs of
scientific
research and the
welfare of
laboratory
animals •*

Written by a
Page 259/273

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*veterinary
anesthetist and
scientist with
over 30 years'
experience in
the field, and
who is actively
engaged in
research in this
area • Provides
rapid, easily
accessed
information
using tabulated*

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summaries •

*Provides those
with limited
experience of
anesthesia with
the information
they need to
carry our
procedures
effectively,
safely, and
humanely •*

*Provides
sufficient depth*

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*for the more
experienced
anesthetist
moving to this
field
Laboratory
animals are
becoming
increasingly
important for
biomedical
research. It is
said that
approximately*

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*70% of
biomedical
research is
associated with
the use of
experimental
animals.*

*Laboratory
animal research
not only expands
our knowledge of
science, but
also greatly
improves human*

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and animal health. The field of laboratory animal science is ever-growing and changing as new experimental techniques are developed and new animal models are created. It is essential to

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*know not only
the biological
features of each
laboratory
animal but also
how to use and
care for them
responsibly in
order to perform
high-quality
experiments.*

*Courses in
beginning
Laboratory*

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Animal Science are starting to be offered in many universities throughout the world. However, a practical introductory textbook that contains state-of-the-art techniques is still lacking.

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*Fundamentals of
Laboratory
Animal Science
provides
comprehensive
information on
the principles
and practices of
using laboratory
animals for
biomedical
research. Each
individual
chapter focuses*

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on a key sub-
discipline of
laboratory
animal science:
animal welfare
and best humane
care practices
in the
laboratory; the
quality control
of laboratory
animals; the
anatomy,
physiology, and

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husbandry of commonly used species; the principles of creating and using animal models for studying human diseases; practical techniques used for laboratory animal experiments;

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*experimental
design; and
animal
experimentation
management.*

*Knowledge of
this broad
spectrum of
concepts and
skills will
ensure research
goes smoothly
while greatly
reducing animal*

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pain and distress. Well-illustrated and thoroughly referenced, this book will serve not only as a standard textbook but also as a handy guide for veterinarians, researchers, animal care

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*staff,
administrators,
and other
professionals
who are involved
in laboratory
animal science.
Management of
Animal Care and
Use Programs in
Research,
Education, and
Testing, Second
Edition*

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*The Organization
and Management
of an*

*Institutional
Animal Care and
Use Committee
Strategies That
Influence Cost
Containment in
Animal Research
Facilities*

*An Introduction
Laboratory
Animals*