

Biology and Management of Laboratory Animals: A Comprehensive Guide for Researchers

Table of Contents

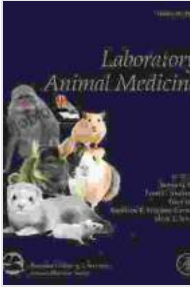
- Section 1:
 - Section 2: Biology of Laboratory Animals
 - Section 3: Management of Laboratory Animals
 - Section 4: Research Applications
 - Section 5: Ethical Considerations
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Section 1:

Laboratory animals play a vital role in biomedical research, helping scientists to understand the mechanisms of disease and develop new treatments. However, the use of laboratory animals also raises important ethical concerns. It is essential for researchers to be aware of the biology and management of laboratory animals in Free Download to ensure their welfare and to minimize the potential for harm.

Nonhuman Primates in Biomedical Research: Biology and Management (American College of Laboratory Animal Medicine)

★★★★★ 5 out of 5



Language : English
File size : 51811 KB
X-Ray for textbooks : Enabled
Print length : 428 pages



This book provides a comprehensive guide to the biology and management of laboratory animals. It is written by a team of experts with decades of experience in the field. The book covers a wide range of topics, including the following:

- The history of laboratory animal use
- The ethical considerations involved in the use of laboratory animals
- The biology of common laboratory animals, including mice, rats, rabbits, hamsters, guinea pigs, and non-human primates
- The management of laboratory animals, including housing, feeding, and veterinary care
- The research applications of laboratory animals, including their use in toxicology, pharmacology, and genetics

Section 2: Biology of Laboratory Animals

The biology of laboratory animals is essential for understanding their needs and providing them with appropriate care. This section of the book covers the following topics:

- The anatomy and physiology of laboratory animals
 - The behavior of laboratory animals
 - The genetics of laboratory animals
 - The nutrition of laboratory animals
 - The diseases of laboratory animals
-

Section 3: Management of Laboratory Animals

The management of laboratory animals is essential for ensuring their welfare and minimizing the potential for harm. This section of the book covers the following topics:

- The housing of laboratory animals
 - The feeding of laboratory animals
 - The veterinary care of laboratory animals
 - The transportation of laboratory animals
 - The euthanasia of laboratory animals
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Section 4: Research Applications

Laboratory animals are used in a wide range of research applications. This section of the book covers the following topics:

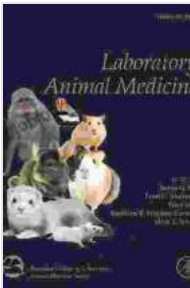
- The use of laboratory animals in toxicology
 - The use of laboratory animals in pharmacology
 - The use of laboratory animals in genetics
 - The use of laboratory animals in cancer research
 - The use of laboratory animals in infectious disease research
-

Section 5: Ethical Considerations

The use of laboratory animals raises important ethical concerns. This section of the book covers the following topics:

- The ethical principles of animal research
 - The 3Rs of animal research: replacement, reduction, and refinement
 - The regulation of animal research
 - The future of animal research
-

Biology and Management of Laboratory Animals is a comprehensive guide for researchers and animal care professionals involved in the use of laboratory animals. It provides essential information on the biology, management, and research applications of laboratory animals, as well as ethical considerations. This book is a valuable resource for anyone who is committed to the humane and responsible use of laboratory animals.



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