



# **Handbook of Laboratory Animal Science, Volume I, Third Edition: Essential Principles and Practices: 1**

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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.

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- New chapters: Applications of Radio-Telemetry in Small Laboratory Animals, Generation and analysis of genetically modified mice, and Physiological, Hematological, and Clinical Chemistry Parameters
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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.

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