

Handbook of Laboratory Animal Science

Volume II: Animal Models

Praise for the Second Edition

"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

"This book will be a valuable addition 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*, 2003

Biomedical research involving animals remains essential for the advancement of the medical, veterinary, agricultural, and biological sciences. Following in the footsteps of its predecessors, the **Handbook of Laboratory Animal Science, Volume II, Third Edition: Animal Models** explains in great detail the comparative considerations underlying the choice of animal species and strains in different research disciplines.

Features:

- Focuses on the pertinent comparative aspects in the multiple contexts in which laboratory animals are used
- Includes chapters new to Volume II on animal models in human behavior, Parkinson's disease, aging and Alzheimer's disease, pain research, otolaryngological disorders, lung physiology during anesthesia, vaccinology, *helicobacter* infection, biodefense research, and hearing loss and tinnitus
- Examines the spontaneous genetic mutants and the genetically modified animal models available within different research areas
- Presents contributions by international experts in their respective fields
- Produced with full color throughout the book, with approximately 50 color images

Efficient and humane experimental work with animals, in which subjects experience no avoidable pain and mental distress, requires skillful and conscientious staff. To this end, scientists apply the three *R*'s: *replacing* experiments on live animals with alternative methods, *reducing* the number of animals necessary to obtain valid results within experiments, and *refining* techniques to minimize the discomfort experienced by the animal subjects.

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