

The Laboratory Rat, Second Edition (Laboratory Animal Pocket Reference) (Volume 12)

By Patrick Sharp, Jason S. Villano



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Rats have long been recognized as a valuable biomedical research model, notably in the investigation of aging, toxicology, addiction, and common human diseases such as diabetes and hypertension. In many instances, individuals conducting such research studies are charged with important responsibilities, including animal facility management, animal husbandry, veterinary care, regulatory compliance, and various experimental methodologies. With the advent of genetic manipulations and biomedical research technological advances such as bioimaging, the versatility and usefulness of the rat as an animal model has soared.

The Laboratory Rat, Second Edition captures the multiple advances in this important animal model's husbandry, veterinary care, and experimental methodology. This edition features augmented, expanded, and novel information on biology, anesthesia, analgesia, and experimental techniques benefiting personnel working with rats?from the animal care staff to the researcher and everyone in between. The book is also extremely useful to institutional animal care and use program supporters and elements, including animal care and use committees, institutional officials, occupational health and safety professionals, veterinary technicians, and veterinarians.

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Patrick E. Sharp is the Director of the Comparative Medicine Centre at the National University of Singapore. Jason Villano is with the Milton S. Hershey Medical Center at Pennsylvania State University College of Medicine.

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