



The Laboratory Rat (Handbook of Experimental Animals)

By George J. Krinke

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The Laboratory Rat (Handbook of Experimental Animals) By George J. Krinke

This reference series will provide all researchers using laboratory animals with comprehensive practical information on the various species. Each title in the series is devoted to a particular species, and draws together all available data in a "one-stop", easily accessible source. Each has similar format, with sections on the strains available, their husbandry, and special diets. Also included are sections on gross anatomy, endocrinology, and reproduction, followed by more detailed sections on neuroanatomy, vasculature, cell biology, and histology of particular organs and structures, and a section on molecular biology.

High quality illustrations are included throughout and a color plate section is provided. A glossary, list of equipment suppliers, and "Quick Reference Section" are added features. The "Quick Reference Section" brings together all tables from the text, allowing readers to find data swiftly.

The first volume in **The Handbook of Experimental Animals Series**, **The Laboratory Rat**, provides researchers in academia and industry using laboratory animals with comprehensive, practical information on the species. **The Laboratory Rat** has been divided into eight sections dealing with:

- * Strains and their selection for research
- * Housing and maintenance
- * Pathogens and diseases
- * Breeding and reproduction
- * Anatomy
- * Physiology
- * Procedures, including experimental surgery
- * Emerging techniques, including genetic engineering and molecular technology

Key Features

- * Provides a valuable, comprehensive reference source for anybody working with the laboratory rat
- * Formatted in a two-color, user-friendly layout
- * Includes high-quality illustrations throughout as well as a color plate section
- * Glossary
- * Tables in the text are also arranged into one Quick Reference Section for ease of access to the data

* Appendix of equipment suppliers

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Editorial Review

Review

"By assembling contributions from no less than 50 authors from eight countries, the editor has come close to producing a 'one-stop-shop' of information for those who work with laboratory rats. ...it is hard to think of another contemporary source of information on the laboratory rat that brings so much together so conveniently. ...This book will go a long way to ensuring that those of us who work with these special animals will do so in a more informed manner to the benefit of all concerned."

—M. France, Director of Animal Services, University of Sydney for AUSTRALIAN VETERINARY JOURNAL (2002)

"...the rest of the series then we are in for a treat, sitting well as an exciting new laboratory manual work for the Millennium."

--Dr. H.B. Waynforth, SMITHKLINE BEECHAM PHARMACEUTICALS, UK

From the Back Cover

"Everything you need to know about-" is the aim of this new series of books describing laboratory animals. From questioning many people it became clear that too much time is wasted in searching for useful data in relation to the structure and function of the different species used in laboratories around the world. We have aimed to supply you, the user, with such data and in doing so we have selected those parameters which are most regularly required. No volume can contain everything nor would researchers welcome excessive detail. So, of necessity, selection of the material included has been rigorous.

The editor of this volume is well known for his expertise in toxicology and in pathology in particular. Because of this experience he has been able to call on the collective expertise of authors from all around the globe, representing both academic and industrial research, thereby achieving a balanced, international approach. The volume has been divided into eight sections dealing with 1) strains and their selection for research, 2) housing and maintenance, 3) pathogens and diseases, 4) reproduction and breeding, 5) anatomy, 6) physiology, 7) procedures including experimental surgery, 8) emerging new techniques: genetic engineering and molecular technology. In many cases not only has new data been included, but facts checked and re-checked. Among the many illustrations, crucial figures have been carefully artist-drawn for clarity. Among others, the volume is directed towards research workers in medicine, biology, toxicology, and veterinary science and students in these areas.

About the Author

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Users Review

From reader reviews:

Katherine Lee:

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Donald Farrell:

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William McClanahan:

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Timothy Williams:

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