



The Laboratory Mouse (Handbook of Experimental Animals)

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Among animals used in research, teaching and testing, mice are now widely recognized as the most important model for human diseases and disorders. They comprise the majority of all experimental mammals and tend to be the model of choice used for research into many diseases/disorders including cancer, heart disease, asthma, Alzheimer's, Down syndrome, deafness, osteoporosis, obesity, diabetes and even mental health research. Additionally the laboratory mouse continues to play a widely publicized vital role in the human genome project.

One of the most time-consuming activities in research laboratories is looking up information specific to the species or strain of animal being used. This book, part of the highly successful **Handbook of Experimental Animals** series, allows the user quick access to any point of interest on the mouse as an experimental model.

- * Edited by Hans Hedrich, Hannover Medical School
- * Comprehensive reference source written by international experts
- * Well-illustrated with high quality detailed images
- * Two-color, user-friendly format combined with color plate sections

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Editorial Review

Review

"...well written and offers interesting background information for anyone in this field." (Neuromuscular Disorders, 2005)

From the Back Cover

This work is part of a series of handbooks, providing research scientists in academia and industry with comprehensive, practical information on the various species of laboratory animal. It will be invaluable to those using mice and for whom the various genetically defined strains and (induced) mutants have become an essential part of their research. Mice are now widely recognized as the most important model for human diseases and disorders and are currently the most frequently used of all experimental mammals. They are the model of choice for many reasons:

- * They have a very strong genetic similarity to humans
- * They are relatively cheap
- * Their small size means that they are easy to house and maintain
- * They have a short life span and rapid reproductive rate enabling the study of disease processes throughout the life-cycle

Thirty-four chapters provide comprehensive, practical information, including new and authoritative data. Copious illustrations are included throughout, and all artwork has been carefully redrawn for clarity.

The editor of this volume is well known for his expertise in laboratory animal models and genetics. He has been able to call upon the collective expertise of authors from around the globe, representing both academic and industrial research, to produce a balanced, international approach.

It is divided into six sections dealing with:

- * History, Development and Genetics of the Mouse as a Laboratory Model
- * Anatomy and Developmental Biology
- * Pathophysiology (including non-infectious diseases)
- * Infectious Agents and Diseases
- * Animal Husbandry and Production
- * Procedures

This volume will be an essential reference for all researchers and students in biological, veterinary and medical sciences, as well as those in the pharmaceutical industry and commercial toxicology and pathology laboratories.

Key Features

- * Edited by Hans Hedrich, Director of the Institute for Laboratory Animal Science at the Hanover Medical School and currently the Editor of the *Journal of Experimental Animal Science*
- * Comprehensive reference source written by international experts
- * Well-illustrated with high quality detailed images
- * 2-color, user-friendly format combined with colour plate sections

About the Author
Edited by Hans Hedrich

Users Review

From reader reviews:

Catherine Browning:

Reading a e-book tends to be new life style on this era globalization. With looking at you can get a lot of information that can give you benefit in your life. Along with book everyone in this world can certainly share their idea. Guides can also inspire a lot of people. Many author can inspire their particular reader with their story or their experience. Not only the storyline that share in the textbooks. But also they write about the ability about something that you need case in point. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book that exist now. The authors in this world always try to improve their expertise in writing, they also doing some investigation before they write to their book. One of them is this The Laboratory Mouse (Handbook of Experimental Animals).

Margaret Watkins:

The Laboratory Mouse (Handbook of Experimental Animals) can be one of your beginner books that are good idea. Many of us recommend that straight away because this e-book has good vocabulary that will increase your knowledge in vocab, easy to understand, bit entertaining but nonetheless delivering the information. The article author giving his/her effort that will put every word into pleasure arrangement in writing The Laboratory Mouse (Handbook of Experimental Animals) nevertheless doesn't forget the main stage, giving the reader the hottest as well as based confirm resource data that maybe you can be one among it. This great information may drawn you into brand-new stage of crucial considering.

Robert Perkins:

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Patricia Baker:

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