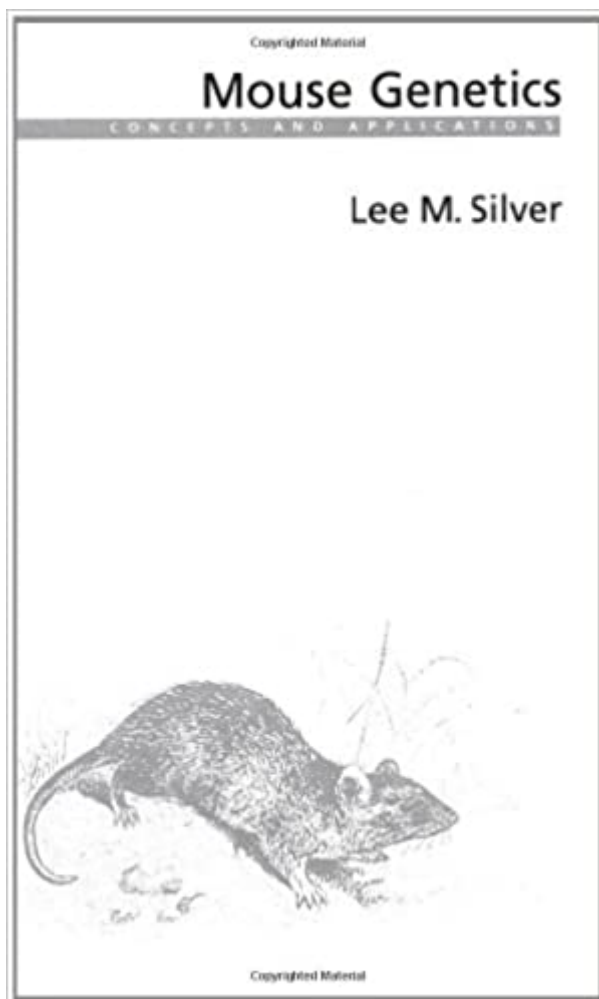


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Mouse Genetics: Concepts And Applications



Synopsis

Mouse Genetics offers for the first time in a single comprehensive volume a practical guide to mouse breeding and genetics. Nearly all human genes are present in the mouse genome, making it an ideal organism for genetic analyses of both normal and abnormal aspects of human biology. Written as a convenient reference, this book provides a complete description of the laboratory mouse, the tools used in analysis, and procedures for carrying out genetic studies, along with background material and statistical information for use in ongoing data analysis. It thus serves two purposes, first to provide students with an introduction to the mouse as a model system for genetic analysis, and to give practicing scientists a detailed guide for performing breeding studies and interpreting experimental results. All topics are developed completely, with full explanations of critical concepts in genetics and molecular biology. As investigators around the world are rediscovering both the heuristic and practical value of the mouse genome, the demand for a succinct introduction to the subject has never been greater. Mouse Genetics is intended to meet the needs of this wide audience.

Book Information

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Customer Reviews

"Mapping the human genome and identifying genes that contribute to susceptibility and resistance to disease are currently major preoccupations in biomedical science. The foundations for much of this sophisticated field of research were established in the mouse Lee Silver in a pleasing and easy style presents a unique synthesis of modern molecular genetics and the biology of the

laboratory mouse Provides exciting reading for the student and continuing education for the more applied worker An exciting introduction to the comprehensive biology that is involved in the intriguing mysteries of the evolutionary process." --Science"Students and researchers involved in mouse genetic research will find Silver's book a welcome addition to their shelves." --Choice

Lee M. Silver is at Princeton University.

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Lee Silver's book is the classical work on mouse genetics. If you want to know everything about the history of the lab mouse, what inbred strains, outbreds, congenics etc. are and how one can turn one into the other, this is the best source. However, it does not contain the latest technologies and data (e.g. speed congenics or genomics). The content is available for free on the web (see the mouse genome informatics/mgi website of JAX aka The Jackson Laboratories) but I still prefer to have the book on my desk instead of clicking through half a dozen of links. Recommended if you can afford it, else use the web version.

This textbook provides a good overview of the conceptual foundations of mouse genetics, but it is rapidly becoming out of date as it was last published in 1995. Thus the text doesn't address the current impact of the sequencing of various genomes, especially that of the mouse.... Save your money and buy a newer textbook.

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