



What's Wrong With My Mouse?: Behavioral Phenotyping of Transgenic and Knockout Mice

By Jacqueline N. Crawley



What's Wrong With My Mouse?: Behavioral Phenotyping of Transgenic and Knockout Mice By Jacqueline N. Crawley

Dr. Jacqueline N. Crawley, author of the First and Second Editions of *What's Wrong with My Mouse? Behavioral Phenotyping of Transgenic and Knockout Mice*, continues to field calls and e-mails from molecular geneticists who ask: *how do I run behavioral assays to find out what's wrong with my mouse?*

Turn to *What's Wrong with My Mouse?* to discover the wealth of mouse behavioral tasks and to get the guidance you need to select the best methods and necessary controls. Chapters are organized by behavioral domain, including measurements of general health, motor functions, sensory abilities, learning and memory, feeding and drinking, reproductive, social, emotional, and reward behaviors in mutant mice. Throughout the chapters, new behavioral tasks and new research discoveries have been added, bringing the Second Edition up to date with the latest science. In addition, the Second Edition includes two new chapters:

"Neurodevelopment and Neurodegeneration" discusses mouse behavioral tasks relevant to neurodevelopmental diseases, such as mental retardation and autism, and to neurodegenerative diseases, such as Alzheimers, Parkinsons, Huntingtons, and amyotrophic lateral sclerosis.

"Putting It All Together" recommends strategies for optimizing a battery of behavioral phenotyping tests to address your specific hypotheses about gene functions.

The final chapter, "The Next Generation," examines new and emerging technologies.

Throughout the book, the use of behavioral testing equipment is illustrated with photographs, diagrams, and representative data. Examples of behavioral tasks successfully applied to transgenic and knockout mouse models are provided, as well as references to the primary literature and step-by-step methods protocols. These features, along with a comprehensive index, listings of database and vendor websites, and an extensive list of references, make this book a valuable and practical resource for students and researchers.

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Editorial Review

Review

First Edition Reviews:

"The book successfully brings together the field of behavioral neuroscience and the rewards and insights that can be gained using this approach. I would recommend that every behavioral scientist has at least two copies, one for their own use and one that will be on permanent load to their students, post-doctoral students and colleagues in molecular biology." (*Trends in Pharmaceutical Sciences*)

"the overall impression is of a helpful guide taking the reader step by step through the complexities of animal behavioral research." (*Nature Neuroscience*)

"succeeds as a useful introduction to the realm of behavioral phenotyping for those interested in creating or using the large and increasing number of promising targeted mutant mice." (*Trends in Neurosciences*)

Review

"This is an excellent and timely book. I have been looking for an appropriate textbook for graduate students who are interested in using genetically engineered mice in various behavioral paradigms, and this is definitely the one to recommend." --Noboru Hiroi, Ph.D., Albert Einstein College of Medicine

From the Back Cover

Learn how to conduct behavioral tests to phenotype mutant mice

Dr. Jacqueline N. Crawley, author of the first and second editions of *What's Wrong With My Mouse?: Behavioral Phenotyping of Transgenic and Knockout Mice*, continues to field hundreds of calls and e-mails from molecular geneticists who ask just that: How do I run behavioral assays to find out what's wrong with my mouse? This book answers that question and many more, including what tests are available to discover an aberrant behavioral phenotype?

Turn to *What's Wrong With My Mouse?* to discover the wealth of mouse behavioral tasks and to get the guidance you need to select the best methods and necessary controls. Chapters are organized by behavioral domain, including measurements of general health, motor functions, sensory abilities, learning and memory, feeding and drinking, reproductive, social, emotional, and reward behaviors in mutant mice. Throughout the chapters, new behavioral tasks and new research discoveries have been added, bringing the second edition up to date with the latest science. In addition, the second edition includes two new chapters:

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- Putting It All Together recommends strategies for optimizing a battery of behavioral phenotyping tests to address your specific hypotheses about gene functions.

The final chapter, The Next Generation, examines new and emerging technologies.

Throughout the book, the use of behavioral testing equipment is illustrated with photographs, diagrams, and

representative data. Examples of behavioral tasks successfully applied to transgenic and knockout mouse models are provided, as well as references to the primary literature and step-by-step methods protocols. These features, along with a comprehensive index, listings of database and vendor Web sites, suggestions for expert behavioral neuroscientist collaborators, and an extensive list of references, make this book a valuable and practical resource for students and researchers.

Users Review

From reader reviews:

Donna Jennings:

Why don't make it to be your habit? Right now, try to ready your time to do the important act, like looking for your favorite book and reading a reserve. Beside you can solve your problem; you can add your knowledge by the e-book entitled What's Wrong With My Mouse?: Behavioral Phenotyping of Transgenic and Knockout Mice. Try to make book What's Wrong With My Mouse?: Behavioral Phenotyping of Transgenic and Knockout Mice as your pal. It means that it can being your friend when you really feel alone and beside those of course make you smarter than ever before. Yeah, it is very fortunated to suit your needs. The book makes you much more confidence because you can know everything by the book. So , we should make new experience and knowledge with this book.

Preston Sloan:

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Gregory Morrow:

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Michael Burr:

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