

KAREN RADER



MAKING MICE

STANDARDIZING ANIMALS FOR
AMERICAN BIOMEDICAL RESEARCH,
1900-1955

Making Mice Standardizing Animals For American Biomedical Research 1900 1955

Mark Jackson



Making Mice Standardizing Animals For American Biomedical Research 1900 1955:

Making Mice Karen Rader, 2018-06-05 *Making Mice* blends scientific biography institutional history and cultural history to show how genetically standardized mice came to play a central role in contemporary American biomedical research Karen Rader introduces us to mouse fanciers who bred mice for different characteristics to scientific entrepreneurs like geneticist C C Little and to the emerging structures of modern biomedical research centered around the National Institutes of Health Throughout *Making Mice* Rader explains how the story of mouse research illuminates our understanding of key issues in the history of science such as the role of model organisms in furthering scientific thought Ultimately genetically standardized mice became icons of standardization in biomedicine by successfully negotiating the tension between the natural and the man made in experimental practice This book will become a landmark work for its understanding of the cultural and institutional origins of modern biomedical research It will appeal not only to historians of science but also to biologists and medical researchers

Made to Order Margaret E. Derry, 2022-03-01 Animal breeding has been complicated by persisting factors across species cultures geography and time In *Made to Order* Margaret E Derry explains these factors and other breeding concerns in relation to both animals and society in North America and Europe over the past three centuries *Made to Order* addresses how breeding methodology evolved what characterized the aims of breeding and the way structures were put in place to regulate the occupation Illustrated by case studies on important farm animals and companion species the book presents a synthetic overview of livestock breeding as a whole It gives considerable emphasis to genetics and animal breeding in the post 1960 period the relationship between environmental and improvement breeding and regulation of breeding as seen through pedigrees In doing so *Made to Order* shows how studying the ancient human practice of animal breeding can illuminate the ways in which human thinking theorizing and evolving characterize our interactions with all natural processes

[The Oxford Handbook of Animal Organization Studies](#) Linda Tallberg, Lindsay Hamilton, 2022 This interdisciplinary book lays out the contours of a new academic discipline Animal Organization Studies thus answering timely calls for more attention to nonhuman life in traditionally human centred fields in social science

Art and Science in Breeding Margaret Derry, 2012-01-21 Chickens are now the most scientifically engineered of livestock How have the methods used by geneticists differed from those employed by domestic breeders over time *Art and Science in Breeding* details the relationship between farm practices and agricultural genetics in poultry breeding from 1850 to 1960 Margaret E Derry traces the history and organization of chicken breeding in North America from craft approaches and breeding as an art to the conflicts that had emerged between traditional and scientific methods by the 1940s Derry assesses links between the scientific revolution of chicken farming and the development of corporate breeding as a modern international industry Using poultry as a case study for the wider narrative of agricultural genetics *Art and Science in Breeding* adds considerable knowledge to a rapidly growing field of inquiry

The Routledge Companion to Animal-Human History Hilda Kean, Philip

Howell,2018-09-03 The Routledge Companion to Animal Human History provides an up to date guide for the historian working within the growing field of animal human history Giving a sense of the diversity and interdisciplinary nature of the field cutting edge contributions explore the practices of and challenges posed by historical studies of animals and animal human relationships Divided into three parts the Companion takes both a theoretical and practical approach to a field that is emerging as a prominent area of study Animals and the Practice of History considers established practices of history such as political history public history and cultural memory and how animal human history can contribute to them Problems and Paradigms identifies key historiographical issues to the field with contributors considering the challenges posed by topics such as agency literature art and emotional attachment The final section Themes and Provocations looks at larger themes within the history of animal human relationships in more depth with contributions covering topics that include breeding war hunting and eating As it is increasingly recognised that nonhuman actors have contributed to the making of history The Routledge Companion to Animal Human History provides a timely and important contribution to the scholarship on animal human history and surrounding debates Oceans Under Glass Samantha Muka,2022-12-08 Aquarium Craft Replicating Oceans under Glass Photography Tanks Viewing Oceans under Glass Kreisel Tanks Crafting Movement under Glass Reef Tanks Building Ecosystems under Glass Breeding Tank Systems Closing the Cycle under Glass Conclusion You Are the Ocean Scaling Up Oceans under Glass **Multi-Species Dementia Studies** Nicholas Jenkins,Anna Jack-Waugh,Louise Ritchie,2025-01-30 Dementia is one of the greatest challenges facing humanity in the 21st century Responding to the global dementia challenge however affects more than humans alone We live in a multi species world but often think about dementia in mono species ways From the lab to the living room other beings are on the scene and our relations with them affect how we understand experience and respond to dementia Drawing on cutting edge work across the social and biological sciences this book offers readers the tools to respond to dementia in multi species ways By exploring a range of topics from pathology to personhood contributors highlight how thinking about dementia as a more than human phenomenon may enable new ways of responding to our global dementia challenge *Forces of Nature* Anna Reser,Leila McNeill,2021-05-11 From the ancient world to the present women have been critical to the progress of science yet their importance is overlooked their stories lost distorted or actively suppressed Forces of Nature sets the record straight and charts the fascinating history of women s discoveries in science In the ancient and medieval world women served as royal physicians and nurses taught mathematics studied the stars and practiced midwifery As natural philosophers physicists anatomists and botanists they were central to the great intellectual flourishing of the Scientific Revolution and the Enlightenment More recently women have been crucially involved in the Manhattan Project pioneering space missions and much more Despite their record of illustrious achievements even today very few women win Nobel Prizes in science In this thoroughly researched authoritative work you will discover how women have navigated a male dominated scientific culture showing themselves to be pioneers and

trailblazers often without any recognition at all Included in the book are the stories of Hypatia of Alexandria one of the earliest recorded female mathematicians Maria Cunitz who corrected errors in Kepler's work Emmy Noether who discovered fundamental laws of physics Vera Rubin one of the most influential astronomers of the twentieth century Jocelyn Bell Burnell who helped discover pulsars

Animal Models of Human Disease Sara Green, 2024-04-30 The crucial role of animal models in biomedical research calls for philosophical investigation of how and whether knowledge about human diseases can be gained by studying other species This Element delves into the selection and construction of animal models to serve as preclinical substitutes for human patients It explores the multifaceted roles animal models fulfil in translational research and how the boundaries between humans and animals are negotiated in this process The book also covers persistent translational challenges that have sparked debates across scientific philosophical and public arenas regarding the limitations and future of animal models Among these are persistent tensions between standardization and variation in medicine as well as between strategies aiming to reduce and recapitulate biological complexity Finally the book examines the prospects of replacing animal models with animal free methods The Element demonstrates why animal modeling should be of interest to philosophers social scientists and scientists alike

The Mansion of Happiness Jill Lepore, 2013-03-26 Renowned Harvard scholar and New Yorker staff writer Jill Lepore has written a strikingly original ingeniously conceived and beautifully crafted history of American ideas about life and death from before the cradle to beyond the grave How does life begin What does it mean What happens when we die All anyone can do is ask Lepore writes That's why any history of ideas about life and death has to be like this book a history of curiosity Lepore starts that history with the story of a seventeenth century Englishman who had the idea that all life begins with an egg and ends it with an American who in the 1970s began freezing the dead In between life got longer the stages of life multiplied and matters of life and death moved from the library to the laboratory from the humanities to the sciences Lately debates about life and death have determined the course of American politics Each of these debates has a history Investigating the surprising origins of the stuff of everyday life from board games to breast pumps Lepore argues that the age of discovery Darwin and the Space Age turned ideas about life on earth topsy turvy New worlds were found she writes and old paradises were lost As much a meditation on the present as an excavation of the past *The Mansion of Happiness* is delightful learned and altogether beguiling

Osiris, Volume 40 Tamar Novick, Lisa Onaga, Gabriel N. Rosenberg, 2025-07-14 Situates animal mobility within the politics of movement opening new perspectives in the history of science Human societies often come to know the natural world by examining animals even as animals frequently both willful and animate can elude human grasps and challenge human aims Animals and their movements have underpinned many methodological moral and epistemic dilemmas that generatively trouble the field Featuring a range of geographies species languages and cultures the contributions in this volume broaden the view of the historical roles animals play in knowledge production processes Organized according to three scales of animal movement individuals groups systems

the twelve richly illustrated inquiries are situated in different time periods from the sixteenth century Ottoman Empire to the recent globalized past and introduce varied forms capacities and politics of movement associated with animals The analytic attention to animal mobility deepens comprehension of animal agency and human animal interactions in unexpected spaces including airports entertainment venues living rooms dirt roads and waterways Taken together the case studies in this volume reconsider how where and by whom science is done

The Oxford Handbook of the History of Medicine Mark Jackson, 2011-08-25 In three sections the Oxford Handbook of the History of Medicine celebrates the richness and variety of medical history around the world It explore medical developments and trends in writing history according to period place and theme

Biologics, A History of Agents Made From Living Organisms in the Twentieth Century Alexander von Schwerin, 2015-10-06 The use of biologics drugs made from living organisms has raised specific scientific industrial medical and legal issues The essays contained in this collection each deal with a case study of a biologic substance or group of biologics and its use during the twentieth century

Patent Politics Shobita Parthasarathy, 2017-02-21 Over the past thirty years the world s patent systems have experienced pressure from civil society like never before From farmers to patient advocates new voices are arguing that patents impact public health economic inequality morality and democracy These challenges to domains that we usually consider technical and legal may seem surprising But in *Patent Politics* Shobita Parthasarathy argues that patent systems have always been deeply political and social To demonstrate this Parthasarathy takes readers through a particularly fierce and prolonged set of controversies over patents on life forms linked to important advances in biology and agriculture and potentially life saving medicines Comparing battles over patents on animals human embryonic stem cells human genes and plants in the United States and Europe she shows how political culture ideology and history shape patent system politics Clashes over whose voices and which values matter in the patent system as well as what counts as knowledge and whose expertise is important look quite different in these two places And through these debates the United States and Europe are developing very different approaches to patent and innovation governance Not just the first comprehensive look at the controversies swirling around biotechnology patents *Patent Politics* is also the first in depth analysis of the political underpinnings and implications of modern patent systems and provides a timely analysis of how we can reform these systems around the world to maximize the public interest

Toxic Sexual Politics Melina Packer, 2025-01-28 A bold expos of how the very foundation of toxicology has been contaminated by sexist and racist ideologies The first critical understanding of the field of toxicology from a feminist and antiracist perspective *Toxic Sexual Politics* asserts that the science of toxicants must be held accountable for the uneven distribution of toxic pollution along racial and sexual lines Drawing upon in depth interviews and extensive ethnographic and archival research including participant observations in toxicology classrooms conferences and laboratories Melina Packer urges environmental health advocates to place toxicant science within its masculinist militarist and eugenicist history *Toxic Sexual Politics* shows how

the founding fathers of U S toxicology were ideologically aligned with the chemical industry inventing a science that could make chemicals safe as opposed to one that could adequately protect planetary health from toxicants hazards While many toxicologists today are critical of the chemical industry they continue to rely on the highly limited tools of toxicology as accurate measures of toxicity as do government regulators the courts and environmental advocates Unlike most critiques of the chemical industry and narratives of environmental health movements Toxic Sexual Politics refuses to take the science at face value By focusing on the sexist racist and ableist biases reinforced by toxicology Packer powerfully argues that this scientific discipline reproduces the very same white supremacist and heterosexist logics that generated environmental injustices in the first place The field of toxicology can explicitly confront chemical corporate power by building from queer feminist anti ableist and antiracist movements for environmental and reproductive justice *Handbook of Historical Animal Studies* Mieke Roscher, André Krebber, Brett Mizelle, 2021-06-08 The handbook provides a comprehensive evaluation of approaches topics and research areas of the rapidly developing field of Historical Animal Studies The so called animal turn specifically inspired new takes on writing history This upsurge in research has led to immense amounts of new empirical studies as well as approaches to historiography which this handbook aims to systemize *Twentieth Century Mouse Genetics* Robert P. Erickson, 2021-08-26 *Twentieth Century Mouse Genetics* A Historical and Scientific Review provides a comprehensive examination of key advances in mouse genetics throughout the 20th century Here Dr Robert P Erickson a leader in the field identifies the contributions of historic mouse genetics studies and how those approaches and early discoveries are still shaping human genetics research and medical genetics today In addition to historical overviews the author provides researcher biographies and updates connecting historic research to ongoing advances Past studies discussed use the T t complex as an example and include the origins of mouse genetics the synthesis of genetics and evolution cytogenetics and gene mapping population genetics and mutation research immunogenetics reproductive genetics molecular cloning X inactivation and epigenetics sex determination and pharmacogenetics Here researchers students and clinicians will find fresh inspiration to engage in human genetics research employing mouse models and to translate those findings to clinical practice Offers a comprehensive examination of key advances in mouse genetics throughout the 20th century Includes updates connecting historic research to ongoing advances Authored by a thought leader in the field **Genetics of the Mouse** Jean Louis Guénet, Fernando Benavides, Jean-Jacques Panthier, Xavier Montagutelli, 2014-11-29 This book written by experienced geneticists covers topics ranging from the natural history of the mouse species its handling and reproduction in the laboratory and its classical genetics and cytogenetics to modern issues including the analysis of the transcriptome the parental imprinting and X chromosome inactivation The strategies for creating all sorts of mutations either by genetic engineering or by using mutagens are also reviewed and discussed in detail Finally a last chapter outlines the methodology used for the analysis of complex or quantitative traits The authors also discuss the importance of accurate phenotyping which

is now performed in the mouse clinics established worldwide and identify the limits of the mouse model which under certain circumstances can fail to present the phenotype expected from the cognate condition in the human model For each chapter an up to date list of pertinent references is provided In short this book offers an essential resource for all scientists who use or plan to use mice in their research

Cancer Virus Hunters Gregory J. Morgan, 2022-08-02 Traces the history of the study of tumor viruses and its role in driving breakthroughs in cancer research Worldwide approximately one fifth of human cancers are caused by tumor viruses with hepatitis B virus and HPV being the leading culprits While the explosive growth in molecular biology in the late twentieth century is well known the role that the study of tumor viruses has played in driving many of the greatest breakthroughs is not Without the insights gained by studying tumor viruses many significant theoretical advancements over the last four decades in cellular and molecular biology would not have been made More practically the study of tumor viruses has saved thousands if not millions of lives In *Cancer Virus Hunters* Gregory J Morgan traces the high points in the development of tumor virology from Peyton Rous's pioneering work on chicken tumors in 1909 to the successful development of an HPV vaccine for cervical cancer in 2006 Morgan offers a novel approach to understanding the interconnectedness of a long series of biomedical breakthroughs including those that led to seven Nobel prizes Among other advances Morgan describes and contextualizes the science that prompted the discoveries of reverse transcriptase RNA splicing the tumor suppressor p53 the vaccine for hepatitis B and the HIV test He also explores how cancer virus hunters have demonstrated the virtue of beginning with a simple system even when investigating a complex disease like cancer Based on extensive archival research and over fifty interviews with experts *Cancer Virus Hunters* is a tour de force summarizing a century of research to show how discoveries made with tumor viruses came to dominate the contemporary understanding of cancer By showcasing the scientists themselves the book makes for an unusually accessible journey through the history of science It will be of interest to biomedical professionals especially in oncology hepatology and infectious disease in addition to historians of science and anyone interested in cancer research

Forgotten Clones Nathan Crowe, 2021-12-07 Long before scientists at the Roslin Institute in Scotland cloned Dolly the sheep in 1996 American embryologist and aspiring cancer researcher Robert Briggs successfully developed the technique of nuclear transplantation using frogs in 1952 Although the history of cloning is often associated with contemporary ethical controversies *Forgotten Clones* revisits the influential work of scientists like Briggs Thomas King and Marie DiBerardino before the possibility of human cloning and its ethical implications first registered as a concern in public consciousness and when many thought the very idea of cloning was experimentally impossible By focusing instead on new laboratory techniques and practices and their place in Anglo American science and society in the mid twentieth century Nathan Crowe demonstrates how embryos constructed in the lab were only later reconstructed as ethical problems in the 1960s and 1970s with the emergence of what was then referred to as the Biological Revolution His book illuminates the importance of the early history of cloning for the

biosciences and their institutional disciplinary and intellectual contexts as well as providing new insights into the changing cultural perceptions of the biological sciences after Second World War

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Table of Contents Making Mice Standardizing Animals For American Biomedical Research 1900 1955

1. Understanding the eBook Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - The Rise of Digital Reading Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Advantages of eBooks Over Traditional Books
2. Identifying Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - User-Friendly Interface
4. Exploring eBook Recommendations from Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Personalized Recommendations
 - Making Mice Standardizing Animals For American Biomedical Research 1900 1955 User Reviews and Ratings
 - Making Mice Standardizing Animals For American Biomedical Research 1900 1955 and Bestseller Lists
5. Accessing Making Mice Standardizing Animals For American Biomedical Research 1900 1955 Free and Paid eBooks
 - Making Mice Standardizing Animals For American Biomedical Research 1900 1955 Public Domain eBooks
 - Making Mice Standardizing Animals For American Biomedical Research 1900 1955 eBook Subscription Services

- Making Mice Standardizing Animals For American Biomedical Research 1900 1955 Budget-Friendly Options
- 6. Navigating Making Mice Standardizing Animals For American Biomedical Research 1900 1955 eBook Formats
 - ePub, PDF, MOBI, and More
 - Making Mice Standardizing Animals For American Biomedical Research 1900 1955 Compatibility with Devices
 - Making Mice Standardizing Animals For American Biomedical Research 1900 1955 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Highlighting and Note-Taking Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Interactive Elements Making Mice Standardizing Animals For American Biomedical Research 1900 1955
- 8. Staying Engaged with Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Making Mice Standardizing Animals For American Biomedical Research 1900 1955
- 9. Balancing eBooks and Physical Books Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Making Mice Standardizing Animals For American Biomedical Research 1900 1955
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Setting Reading Goals Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Making Mice Standardizing Animals For American Biomedical Research 1900 1955
 - Fact-Checking eBook Content of Making Mice Standardizing Animals For American Biomedical Research 1900 1955

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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