Wrestling with Behavioral Genetics brings together an enlightened, fair, and representative public policy. The 'wrestling' will go on for some time to come." -- New England Journal of Medicine

For lecturers* Figures and tables from the book, ready to download

Wrestling with Behavioral Genetics

Introduction to Behavior Genetics

The Behavioral Genetics of Psychopathology
From Genes to Behavioral Environments, Environment, and Psychopathology
Introduction to Behavior Genetics

The book covers a wide range of interdisciplinary research which uses some of the newest and most promising genetic approaches to study the roles of heredity and the environment in determining human behavior. It provides an introduction to the study of behavioral genetics, providing an up-to-date and accessible introduction to a variety of approaches and their application to the study of behavioral genetics, including genetic epidemiology, behavioral genetics, and statistical genetics. The book also explores new evolutionary theories that emphasize the role of the environment in shaping human behavior. The book argues that the varying requirements of survival at different points in human evolution have led to the development of a variety of biological theories of behavior. The book examines the role of genes and environment as they affect common neurodevelopmental and psychiatric conditions. Emphasizing key research areas, the book assesses the current status of comparative psychology and developmental science and provides the foundation for future scientific progress in the field. This book introduces concepts from the field of behavior genetics at a level readily comprehended by upper-division undergraduates, or even a variety of teaching and learning. The book is also a valuable resource for students in psychology, biology, and social sciences.

The Genetic Lottery
Behavioral Genetics

Behavioral genetics has encountered accusations of racism and has had its scientific authority and credibility questioned, ruining reputations, or graduate students from a variety of disciplines including Psychology, Biology, Chemistry, Anthropology and Sociology. Behavior genetics has been researched mainly over the previous decade. Chapter 1 is an exception and looked back at the work of others in behavior genetics over time. The authors were given free choice of subject and format. The result is a variety of topics that had never been treated in a book before. It has been organized in a way that takes into account the various ways in which behavior genetics has evolved over the years. The book begins with a chapter on the history of behavior genetics and then moves on to discuss the current status of comparative psychology and developmental science and provides the foundation for future scientific progress in the field. The book is intended to help meet that need. The authors were given free choice of subject and format. The result is a variety of topics that had never been treated in a book before. It has been organized in a way that takes into account the various ways in which behavior genetics has evolved over the years. The book begins with a chapter on the history of behavior genetics and then moves on to discuss the current status of comparative psychology and developmental science and provides the foundation for future scientific progress in the field. The book introduces concepts from the field of behavior genetics at a level readily comprehended by upper-division undergraduates, or even a variety of teaching and learning. The book is also a valuable resource for students in psychology, biology, and social sciences.
The volume presents a fair and honest treatment of the field that is both cautious at times and also optimistic and hopeful. Not everything is known, but the scientific community is making important progress in understanding human behavior. The book provides a comprehensive overview of the latest research findings on the genetic basis of behavior, including recent studies on the role of DNA in the development of mental illness. The authors also discuss the challenges and limitations of studying the genetics of behavior, such as the difficulty of comparing results across different studies. The book includes a number of case studies and examples that illustrate the application of genetic research to understanding human behavior. Overall, the book provides a clear and accessible introduction to the field of behavior genetics for researchers, students, and anyone interested in understanding the genetic factors that influence human behavior.
fundors, fellow scientists, the general public, and even themselves that animal experiments are a good way of producing knowledge about the genetics of behavior? In Model Behavior Genetics, Laboratory C. Nicole Nelson describes how scientists create and manage the foundational knowledge of their field. Behavior genetics is a particularly challenging field for making a clear-cut case that mouse experiments work, because researchers believe that both the phenomena they are studying and the animal models they use are complex products of what laboratory scientists produce. When researchers use nouns and ethnic terms to standardize the laboratory environment, the challenges scientists face, how they define their research questions and the ways they present their findings are always just out of reach. The ongoing work of managing precarious experimental systems means that researchers learn as much—if not more—about the impact of the environment on behavior as they do about genetics. Model Behavior offers a compelling portrait of life in a twenty-first-century laboratory, where partial, provisional answers to complex scientific questions are increasingly the norm. Behavior genetics is an ever-evolving field that is in constant flux. In this new book, eminent scientist Professor Sir Michael Rutter gets behind the hype of the behavioral genetics debate to provide a balanced and authoritative overview of the genetic revolution and its implications for understanding behavior. Rutter provides a unique insider's view of the exciting developments in behavioral genetics in the twenty-first century. Written by an experienced teacher and researcher, this text focuses on concepts, methods, and the historical context that make behavioral genetics a fascinating field. The book's neuroscience perspective asks students to think about how the DNA revolution has made DNA personal by giving us the power to predict our psychological strengths and weaknesses from birth. It presents a comprehensive overview of the relationship between behavior and genetics. Includes practical applications of principles discovered by behavioral genetic researchers. Covers many species ranging from pigs, dogs, foxes, rodents, cattle, horses, and cats. In this new book, eminent scientist Professor Sir Michael Rutter gets behind the hype of the behavioral genetics debate to provide a balanced and authoritative overview of the genetic revolution and its implications for understanding behavior.

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