Free download Introduction to behavior genetics (Read Only)

Handbook of Behavior Genetics Behavior Genetics of Temperament and Personality Principles of Behavioral Genetics Behavior Genetics Behavior Genetics of Cognition Across the Lifespan Nature and Nurture Behavioral Genetics Wrestling with Behavioral Genetics How Genes Influence Behavior 2e Methods and Goals in Human Behavior Genetics An Introduction to Behavior Genetics Contributions to Behavior-genetic Analysis The Behavioral Genetics of Psychopathology Animal Models of Behavior Genetics Misbehaving Science Perspectives in Behavior Genetics Foundations of Behavior Genetics Perspectives in Behavior Genetics Behavioral Genetics Genetics, Environment, and Behavior Introduction to Behavioral Genetics Twins as a Tool of Behavioral Genetics An Introduction to Behavior Genetics Genes and Behaviour Behavioral Genetics of the Mouse: Volume 1, Genetics of Behavioral Phenotypes Behavior Genetics Principles Behavioral Genetics Behavior-genetic Analysis Behavioral Genetics in the Postgenomic Era Behaving Behavior Genetics of Psychopathology Genetics and the Behavior of Domestic Animals Living with Our Genes Behavior Genetics Behavioral Genetics Behavioral Genetics Nature and Nurture Human Behavior Genetics Behavioral Genetics of the Fly (Drosophila Melanogaster) Our Genes, Our Choices

Handbook of Behavior Genetics

2009-03-25

this handbook provides research guidelines to study roles of the genes and other factors involved in a variety of complex behaviors utilizing methodologies and theories commonly used in behavior genetics each chapter features an overview of the selected topic current issues as well as current and future research

Behavior Genetics of Temperament and Personality

2021-03-17

this volume examines behavioral genetic research on temperament and personality from a number of perspectives it takes a developmental perspective on a number of issues across the lifespan focusing on personality and temperament the first section focuses on the development of temperament and personality typically this has involved exploring genetic and environmental contributions to phenotypic stability and instability but more recently there has been research that examines the etiology of intra individual change growth trajectories the second section examines genetic and environmental contributions to the association between temperament and personality and other behaviors the third and fourth sections discuss genotype environment correlations and interactions and introduces the reader to molecular genetics research on temperament and personality chapter 11 will discuss the significance of this type of research and chapter 12 will provide an example of specific line of research exploring genes associated with temperament

Principles of Behavioral Genetics

2009-09-21

principles of behavioral genetics provides an introduction to the fascinating science that aims to understand how our genes determine what makes us tick it presents a comprehensive overview of the relationship between genes brain and behavior introductory chapters give clear explanations of basic processes of the nervous system and fundamental principles of genetics of complex traits without excessive statistical jargon individual chapters describe the genetics of social interactions olfaction and taste memory and learning circadian behavior locomotion sleep and addiction as well as the evolution of behavior whereas the focus is on genetics neurobiological and ecological aspects are also included to provide intellectual breadth the book uses examples that span the gamut from classical model organisms to non model systems and human biology and include both laboratory and field studies samples of historical information accentuate the text to provide the reader with an appreciation of the history of the field this book will be a valuable resource for future generations of scientists who focus on the field of behavioral genetics defines the emerging science of behavioral genetics engagingly written by two leading experts in behavioral genetics clear explanations of basic quantitative genetic neurogenetic and genomic applications to the study of behavior numerous examples ranging from model organisms to non model systems and humans concise overviews and summaries for each chapter

Behavior Genetics

2021-09-30

originally published in 1983 this volume is a collection of papers by research workers active at the time it includes reviews of special areas within the field and discussions of interactions with other behavioral sciences such as psychology ethology and sociobiology applications to medicine psychiatry and education are also considered contributors were encouraged to integrate history present knowledge and projections for the future although the book is not divided into sections there is some grouping of related chapters

Behavior Genetics of Cognition Across the Lifespan

2013-07-09

along with psychopathology cognition has been one of the primary phenotypic focal points of the field of behavior genetics since its inception francis galton s 1874 examination of eminent families in britain was among the earliest attempts to investigate whether cognitive achievements run in families this volume presents current methodologies for understanding cognitive abilities that move beyond the outdated nature vs nurture paradigm recent advances in both collection and statistical modeling of twin data particularly longitudinal twin data make this an especially advantageous moment to produce a work that presents a collection of the groundbreaking research on cognitive abilities across the lifespan this volume presents an overview of the current state of quantitative and molecular genetic investigations into the many facets of cognitive performance and functioning across the lifespan

Nature and Nurture

1990

brief accessible overview of methods and findings of behavioral genetics written by a leading scholar in the field

Behavioral Genetics

2018

wrestling with behavioral genetics brings together an interdisciplinary group of contributors geneticists humanists social scientists lawyers and journalists to discuss the ethical and social implications of behavioral genetics research the essays give readers the necessary tools to critically analyze the findings of behavioral geneticists explore competing interpretations of the ethical and social implications of those findings and engage in a productive public conversation about them what sets this collection apart from others is the way that contributions from a diverse authorship are integrated to form a coherent whole doubtless this book will soon become a classic within behavioral genetics and compulsory reading for the non specialist seeking to understand the basic scientific social and ethical issues within the field american journal of bioethics informative provocative and challenging this book is a must read for anyone seeking to understand this emerging field social theory and practice promoting public conversation about behavioral genetics will be increasingly pertinent to creating enlightened fair and representative public policy the wrestling will go on for some time to come new england journal of medicine this volume presents a fair and honest treatment of the field that is both cautious at times and also optimistic and hopeful metapsychology erik parens is a senior research scholar at the hastings center and a visiting professor in the science technology and society program at sarah lawrence college audrey r chapman is a professor of community medicine and healey chair in medical humanities and bioethics at the university of connecticut school of medicine nancy press is a professor at the school of nursing and the department of public health at the school of medicine oregon health and science university

Wrestling with Behavioral Genetics

2006

how genes influence behavior takes a personal and lively approach to the study of behavioral genetics providing an up to date and accessible introduction to a variety of approaches and their application to a wide range of disorders and modeling a critical approach to both methods andresults this second edition includes additional biology content to help students understand the biological foundations of the field while maintaining an appropriate focus on the main issues of relevance to psychology students updates coverage of genomic technologies and their applications and covers awider range of disorders including autism spectrum disorder eating disorders and intellectual disability a new final chapter guides students through a range of quantitative approaches using worked examples that relate directly to cases and examples used earlier in the text and addresses currentissues arising from debates around reproducibility the online resources that accompany this book include for students multiple choice questions for students to check their threshold knowledge data sets for students to manipulate so that they can apply what they have learnedfor lecturers figures and tables from the book ready to download

How Genes Influence Behavior 2e

2020-01-23

methods and goals in human behavior genetics examines trends in behavior genetics research and presents a critical review of methodology this volume was planned to be of interest to two types of readers first it provides information for psychologists who are interested in the genetics of personality and ability second it is hoped that the volume will be of some value to geneticists who are desirous of knowing about recent attempts by psychologists to study hereditary factors in human behavior the contributions to this volume are in some cases similar to papers presented during a meeting held in louisville where this volume was planned while the comments following these papers are based on tape recordings of the ensuing discussions the book opens with a discussion of biochemical genetics and gene action separate chapters follow in topics such as application of anthropology to genetics twin studies heritability of personality traits and suggestions for human behavior genetics based on animal studies

Methods and Goals in Human Behavior Genetics

2013-09-24

new discoveries about the genetic underpinnings of many kinds of human experience are now continually being made this

book explores the impact of these discoveries on the ways in which the common mental disorders are best conceptualized and treated most people think of research in genetics as the search for genes this is only one focus of effort and even with the reliable identification of susceptibility genes the clinical applications of their discovery such as gene therapies and new drug development are a long way off for the present the impact of genetic research on our understanding of mental illness is tied to our ability to estimate the effect of all genes by means of family twin and adoption studies the results of these studies challenge some deeply cherished ideas and theories and support others of course the effect of genes is only half the equation the role of experience environment and living conditions accounts for as much often considerably more of the variability in psychopathology in this book kerry jang attempts not to answer questions about what is genetic and what is not but about what a knowledge of the relative influence of genes versus environment means at a psychological level of analysis to show how it changes common assumptions about classification etiology diagnosis and intervention he first offers an overview of contemporary behavioral genetics dispels common misconceptions responds to the criticisms that have been leveled at this new field and describes in basic terms how genetic and environmental effects are estimated and how susceptibility genes are pinpointed he then points to new directions in which standard nosological systems are likely to evolve as new information about vulnerabilities and covariances emerges finally he synthesizes and evaluates the consistency of the last decade s findings for the most common categories of psychopathology that have been studied by behavior geneticists mood personality and anxiety disorders substance abuse and schizophrenia and the psychotic disorders clinicians and researchers alike need to understand the genetic influences on the feelings and behaviors they are seeking to change or study if they are to be effective in their work the behavioral genetics of psychopathology a clinical guide empowers them with this understanding

An Introduction to Behavior Genetics

2008

this stimulating analysis reviews the broad potential of animal models to foster a deeper understanding of human pathology strengthen connections between genetic and behavioral studies and develop more effective treatments for mental disorders widely studied and lesser used species are examined in models that capture features along the continuum of normative and pathological behavior the models highlight genetic causes of core features or endophenotypes of developmental internalizing and externalizing disorders as well as dementia expert contributors address questions ranging from how suitable species are chosen for study to the costs and benefits of using inbred versus outbred strains and the effects of housing environment on subject animals larger issues addressed include how to evaluate the applicability of animal behavioral models to the human condition and how these models can harness emerging molecular technologies to further our understanding of the genetic basis of mental illness included in the coverage mating and fighting in drosophila attachment and social bonding impulsivity in rodents and humans animal models of cognitive decline animal models of social cognition future directions for animal models in behavioral genetics a detailed map of where this evolving field is headed animal models of behavior genetics shows geneticists molecular biologists and cognitive neuroscientists paths beyond established concepts toward a more knowledgeable and collaborative future

Contributions to Behavior-genetic Analysis

1970

behavior genetics has always been a breeding ground for controversies from the criminal chromosome to the gay gene claims about the influence of genes like these have led to often vitriolic national debates about race class and inequality many behavior geneticists have encountered accusations of racism and have had their scientific authority and credibility questioned ruining reputations and threatening their access to coveted resources in misbehaving science aaron panofsky traces the field of behavior genetics back to its origins in the 1950s telling the story through close looks at five major controversies in the process panofsky argues that persistent ungovernable controversy in behavior genetics is due to the broken hierarchies within the field all authority and scientific norms are questioned while the absence of unanimously accepted methods and theories leaves a foundationless field where disorder is ongoing critics charge behavior geneticists with political motivations champions say they merely follow the data where they lead but panofsky shows how pragmatic coping with repeated controversies drives their scientific actions ironically behavior geneticists struggles for scientific authority and efforts to deal with the threats to their legitimacy and autonomy have made controversy inevitable and in some ways essential to the study of behavior genetics

The Behavioral Genetics of Psychopathology

2005-03-23

originally published in 1986 we were living in a world in which the number of publications in behaviour genetics had reached a point where it was difficult even for those teaching the subject to keep up with the literature the editors of this title believe that there is a need for people who have planned and executed long term research programs to summarize and

comment on their results this volume was 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 been researched mainly over the previous decade chapter 1 is an exception and looked back at the work of others in behaviour genetics over a quarter century and tried to detect trends in the types of research done in the field

Animal Models of Behavior Genetics

2016-08-10

foundations of behavior genetics provides a forward looking introduction to this fascinating field written by an experienced teacher and researcher this text focuses on concepts methods and findings that inform our understanding of heredity behavior relations the book s neuroscience perspective asks students to think about potential neural mechanisms involved in pathways from genes to behavior while the text is primarily focused on human behavior genetics it also emphasizes the importance of non human animal models in experimental studies as well as their evolutionary connections to humans part i covers the history of behavior genetics and the basics of non molecular genetics part ii discusses molecular genetics and neurogenetics part iii addresses various behavioral disorders and part iv explores health social behavior and ethical implications the text includes detailed chapter summaries several check up questions after major sections that test student understanding and recommended readings instructors are provided with a test bank of multiple choice items and hi res jpegs of the many illustrations created for the book

Misbehaving Science

2014-07-07

originally published in 1986 we were living in a world in which the number of publications in behaviour genetics had reached a point where it was difficult even for those teaching the subject to keep up with the literature the editors of this title believe that there is a need for people who have planned and executed long term research programs to summarize and comment on their results this volume was 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 been researched mainly over the previous decade chapter 1 is an exception and looked back at the work of others in behaviour genetics over a quarter century and tried to detect trends in the types of research done in the field

Perspectives in Behavior Genetics

2021-08-31

genetics environment and behavior implications for educational policy is a collection of papers from the genetic endowment and environment in the determination of behavior workshop in new york in october 1971 the book discusses the relationships between genetic characteristics and behavior as being significant in understanding human behavior and learning the text also considers the different approaches made by geneticists and psychologists on this subject several papers review in terms of both quantitative and qualitative analysis the role that genetics and the environment play in determining behavior one paper explains the possible role of genetic determination in behaviors as found in mice and men that show high probabilities of heritabilities another paper tackles biochemical genetics and explains the evolution of human behavior by addressing the enzyme variations in human brains and the role of language and culture the book also cites gene environment interactions and the variability that can be found in behavior with references to the works of ginsburg 1967 and vale and vale 1969 one paper comments on the future of human behavior genetics highlighting the distinction between what should happen and what most probably will happen this text is suitable for sociologists behavioral scientists geneticists educators and students in psychology psychiatry and related branches of medicine

Foundations of Behavior Genetics

2022-07-07

twins as a tool of behavioral genetics edited by t j bouchard jr p propping every human being is genetically unique and consequently genetically different from every other human being the one exception is identical monozygotic twins who share exactly the same genome fraternal dizygotic twins share half of their genes in common by descent twins of both types constitute an experiment of nature because it is unethical to carry out powerful experiments on human beings in order to explore the causes of variation in human traits this natural experiment with all of its vicissitudes is one of the few windows we have with which to view the genetic and environmental determinants of complex human behavioral traits many scientists believe that twins can only be used to estimate heritability and that they reveal nothing about how genes influence behavior in addition they argue that modern molecular genetics will quickly make twin research obsolete these widely held views are largely incorrect twins are a unique and very powerful tool for exploring a wide variety of hypotheses

about both the distal mostly genetic and proximal mostly environmental origins of human individual differences scientific knowledge accumulates most rapidly when scientists ask the right questions and utilize the right tools the right tools for the job this book attempts to highlight the questions that might be most productively addressed through the use of twin designs every tool however has its limitations this book carefully examines the limitations and assumptions associated with the application of the method to each of the domains discussed goal of this dahlem workshop to evaluate the environmental and genetic mechanisms underlying the structure and development of behavior in twins studies the achievements limitations and potentials

Perspectives in Behavior Genetics

2021-08-31

this text guides readers through an orderly sequence of related topics from the field from the molecular structure and function of dna to how dna controls protein development and the neural processes that underlie both normal and abnormal behaviour though focused primarily on human research animal models are also included

Behavioral Genetics

2018

provides a broad snapshot of recent findings showing how the environment and genes influence behavior the great debate of nature versus nurture rages on but our understanding of the genetic basis of many behaviors has expanded over the last decade and there is now very good evidence showing that seemingly complex behaviours can have relatively simple genetic underpinnings but also that most behaviours have very complicated genetic and environmental architecture studies have also clearly shown that behaviors and other traits are influenced not just by genes and the environment but also by the statistical interaction between the two this book aims to end the nature versus nurture argument by showing that behaviors are nature and nurture and the interaction between the two and by illustrating how single genes can explain some of the variation in behaviors even when they are seemingly complex genes and behaviour beyond nature nurture puts to rest the nature versus nurture dichotomy providing an up to date synopsis of where we are how far we ve come and where we are headed it considers the effects of a dual inheritance of genes and culture and genes and social environment and highlights how indirect genetic effects can affect the evolution of behavior it also examines the effect of non self genes on the behavior of hosts shines a light on the nature and nurturing of animal minds and invites us to embrace all the complexity nature and nurture generates and more explores exciting new findings about behavior and where we go from here features contributions by top scholars of the subject seeks to end the nature versus nurture debate forever genes and behaviour beyond nature nurture is a unique and eye opening read that will appeal to ph d students post doctoral fellows and researchers in evolution and behavior additionally the book will also be of interest to geneticists sociologists and philosophers

Genetics, Environment, and Behavior

2013-09-17

the first volume in the new cambridge handbooks in behavioral genetics series behavioral genetics of the mouse provides baseline information on normal behaviors essential in both the design of experiments using genetically modified or pharmacologically treated animals and in the interpretation and analyses of the results obtained the book offers a comprehensive overview of the genetics of naturally occurring variation in mouse behavior from perception and spontaneous behaviors such as exploration aggression social interactions and motor behaviors to reinforced behaviors such as the different types of learning also included are numerous examples of potential experimental problems which will aid and guide researchers trying to troubleshoot their own studies a lasting reference the thorough and comprehensive reviews offer an easy entrance into the extensive literature in this field and will prove invaluable to students and specialists alike

Introduction to Behavioral Genetics

1973

behavior genetics principles perspectives in development personality and psychopathology presents work that addresses both historical and novel approaches to the study of genetic and environmental influences on behavior contributors to this volume use behavior genetics as a means for understanding the etiology of mental illness as well as normal development they ask what genes predispose a person to develop a specific personality trait what about an inclination to a psychological disorder how do environmental factors enhance or mute genetic factors do they regulate inherited individual differences in behavior and personality throughout a lifetime behavior genetics principles explores the many connections between genes

personality development and psychopathology it focuses on research influenced by irving i gottesman a pioneer in behavioral genetics research as a mentor and a colleague gottesman has worked to examine the role of genes and environmental factors using both traditional and novel study designs and analytic methods this stimulating volume by colleagues who have helped shape the field of behavioral genetics presents cutting edge work that carries on h

Twins as a Tool of Behavioral Genetics

1993-12-28

nine essays examining the ethical cultural legal and biological underpinnings of behavioral genetics scientists conducting human genome research are identifying genetic disorders and traits at an accelerating rate genetic factors in human behavior appear particularly complex and slow to emerge yet are raising their own set of difficult ethical legal and social issues in behavioral genetics the clash of culture and biology ronald carson and mark rothstein bring together well known experts from the fields of genetics ethics neuroscience psychiatry sociology and law to address the cultural legal and biological underpinnings of behavioral genetics the authors discuss a broad range of topics including the ethical questions arising from gene therapy and screening molecular research in psychiatry and the legal ramifications and social consequences of behavioral genetic information throughout they focus on two basic concerns the quality of the science behind behavioral genetic claims and the need to formulate an appropriate ethically defensible response when the science turns out to be good this book is well written and stimulating the issues it raises are important for scientists and for those working in the legal and social services fields but they clearly also have relevance for everyone the new england journal of medicine this is the best introduction to behavioral genetics that i have read the varying viewpoints are presented with such clarity that this book should appeal to the general public and serve as a basic text for college courses jay katz elizabeth k dollard professor emeritus of law medicine and psychiatry harvey l karp professiorial lecturer in law and psychoanalysis yale law school

An Introduction to Behavior Genetics

2008-11-30

the human genome project which has provided a working draft of the sequence of dna in the human genome is a remarkable scientific achievement in this postgenomic world it appears that all genes and all dna variation will eventually be known for behavioral researchers this is especially exciting because behavioral dimensions and disorders are the most complex traits of all to understand these traits we need to understand the roles of many genes and many environmental influences

Genes and Behaviour

2019-02-06

behaving presents an overview of the recent history and methodology of behavioral genetics and psychiatric genetics informed by a philosophical perspective kenneth f schaffner addresses a wide range of issues including genetic reductionism and determinism free will and quantitative and molecular genetics the latter covers newer genome wide association studies gwas that have produced a paradigm shift in the subject and generated the problem of missing heritability schaffner also presents cases involving pro and con arguments for genetic testing for iq and for attention deficit hyperactivity disorder adhd schaffner examines the nature nurture controversy and developmental systems theory using c elegans or worm studies as a test case concluding that genes are special and provide powerful tools including deep homology for investigating behavior he offers a novel account of biological knowledge emphasizing the importance of models mechanisms pathways and networks which clarifies how partial reductions provide explanations of traits and disorders the book also includes examinations of personality genetics and of schizophrenia and its etiology alongside interviews with prominent researchers in the area and discusses debates about psychosis that led to changes in the dsm 5 in 2013 schaffner concludes by discussing additional philosophical implications of the genetic analyses in the book some major worries about free will and arguments pro and con about why genes and dna are so special though genes are special newer perspectives presented in this book will be needed for progress in behavioral genetics perspectives that situate genes in complex multilevel prototypic pathways and networks with a mix of optimism and pessimism about the state of the field and the subject schaffner s book will be of interest to scholars in the history and philosophy of science medicine and psychiatry

Behavioral Genetics of the Mouse: Volume 1, Genetics of Behavioral Phenotypes

2013-04-25

as a dynamic interdisciplinary field behavior genetics and its evolution are being followed closely by scientists across the psychological and medical domains the discoveries surrounding the human genome and the advancement in molecular genetic technologies have led to studies becoming increasingly sophisticated and yielding yet more conclusive and useful results this is certainly the case in the area of child and adult psychopathology behavior genetics of psychopathology summarizes the state of the field examining the role of genes and environment as they affect common neurodevelopmental and psychiatric conditions emphasizing key research areas comorbidities twin studies the integration of methods the book assesses the current literature offers up to date findings sorts through lingering controversies and identifies a clear future agenda for the field expertly written chapters focus on issues of both general salience that shape behavior genetics of psychopathology to specific disorders of major clinical importance among them adhd the view from quantitative genetic research autism spectrum disorders and their complex heterogeneity genetic influences on anxiety and depression in childhood and adolescence evidence for etiologically defined subgroups within the construct of antisocial behavior sleep and psychopathology the reasons for their co occurrence behavioral genetic approaches to the etiology of comorbidity epigenetics of psychopathology this combination of timeliness and depth of coverage make behavior genetics of psychopathology a frontline resource for behavior geneticists psychologists psychiatrists and neuroscientists and is perfectly suited to graduate students looking to join these fields

Behavior Genetics Principles

2004

behavior is shaped by both genetics and experience nature and nurture this book synthesizes research from behavioral genetics and animal and veterinary science bridging the gap between these fields the objective is to show that principles of behavioral genetics have practical applications to agricultural and companion animals the continuing domestication of animals is a complex process whose myriad impacts on animal behavior are commonly under appreciated genetic factors play a significant role in both species specific behaviors and behavioral differences exhibited by individuals in the same species leading authorities explore the impact of increased intensities of selection on domestic animal behavior rodents cattle pigs sheep horses herding and guard dogs and poultry are all included in these discussions of genetics and behavior making this book useful to veterinarians livestock producers laboratory animal researchers and technicians animal trainers and breeders and any researcher interested in animal behavior includes four new chapters on dog and fox behavior pig behavior the effects of domestication and horse behavior synthesizes research from behavioral genetics animal science and veterinary literature broaches fields of behavior genetics and behavioral research includes practical applications of principles discovered by behavioral genetics researchers covers many species ranging from pigs dogs foxes rodents cattle horses and cats

Behavioral Genetics

2003-05-22

a lucid thought provoking account of the case for nature as a determinant of personality peter d kramer author of listening to prozac and should you leave nowhere is the nature nuture controversy being more arduously tested than in the labs of world renowned molecular scientist dean hamer whose cutting edge research has indisputably linked specific genes to behavioral traits such as anxiety thrill seeking and homosexuality the culmination of that research os this provocative book living with our genes in it dr hamer reveals that much of our behavior how much we eat and weigh whether we drink or use drugs how often we have sex is heavily influenced by genes his findings help explain why one brother becomes a wall street trader while his sibling remains content as a librarian or why some people like to bungee jump while others prefer scrabble dr hamer also sheds light on some of the most compelling and vexing aspects of personality such as shyness aggression depression and intelligence in the tradition of the bestselling book listening to prozac living with our genes is the first comprehensive investigation of the crucial link between our dna and our behavior compulsive reading reminiscent of jared diamond froma scientsit who knows his stuff and communicates it well kirkus reviews a pioneer in the field of molecular psychology hamer is exploring the role genes play in governing the very core of our individuality accessible provocative time absolutely terrific i couldn t put it down professor robert plomin social genetic developmental psychiatry research center institute of psychiatry

Behavior-genetic Analysis

1982

an overview of both animal and human behavioural genetics and discussions of controversial topics the book includes a chapter on the role of the new genetics of recombinant dna in behavioural genetic research and an introduction to model fitting analysis and the major areas of research

Behavioral Genetics in the Postgenomic Era

2003

this book provides an overview of human and animal behavioral genetics and examines the crossroads where the fields of psychology psychiatry and genetics intersect

Behaving

2016

what does it mean to find a gene or set of genes that are associated with adhd schizophrenia or autism could we eradicate such diseases from our species through gene therapy is it possible to eradicate from our genome the genetic material that predisposes us to be too aggressive too shy less intelligent or not active enough who has the political power and or moral authority to make these decisions the premise of nature and nurture is that the complexity of the transactions between nature and nurture between genes and the environment from the cellular to the cultural level make these questions incredibly complex and in need of careful attention by educators scientists the public and policymakers a product of the conference held at brown university in 2001 this book suggests that genes and environments work together interactively in a complex and closely intertwined fashion the contributors to this book biologists psychologists psychiatrists and economists present knowledge that enables research and application to transcend the traditional question of whatever variance or significance is attributed to genetics versus environment in the development of a particular behavioral trait this book presents a variety of views on the current status of knowledge about the ways in which dynamic developmental mutually interactive systems in the genetic and environmental domains operate the chapters represent contributions from different perspectives

Behavior Genetics of Psychopathology

2014-02-03

a comprehensive portrayal of the behaviour genetics of the fruit fly drosophila melanogaster and the methods used in these studies

Genetics and the Behavior of Domestic Animals

2013-04-22

our genes our choices how genotype and gene interactions affect behavior second edition explains how the complexity of human behavior including concepts of free will derives from a relatively small number of genes which direct neurodevelopmental sequences are people free to make choices or do genes determine behavior paradoxically the answer to both questions is yes because of neurogenetic individuality a new theory with profound implications here author david goldman uses judicial political medical and ethical examples to illustrate that this lifelong process is guided by individual genotype molecular and physiologic principles as well as by randomness and environmental exposures a combination of factors that we choose and do not choose written in an authoritative yet accessible style the book includes practical descriptions of the function of dna discusses the scientific and historical bases of genethics and introduces the topics of epigenetics and the predictive power of behavioral genetics in the decade since the first edition published knowledge of genetic influences on the neurogenetic underpinnings of behavior has been transformed by genomic technologies genome wide association studies for example have revealed that hundreds of genes influence vulnerability to psychiatric disease and innate predisposition to risk taking behaviors this new edition has been thoroughly revised to focus on free will and its neurogenetic origins in addition the use of polygenic scores for behavioral prediction are discussed in depth reflecting the gwas genome wide association study revolution and combined use of genetic predictors in polygenic scores sections on epigenetics are also substantially expanded throughout better defined and tied to neuroplasticity and gene environment interaction figures and illustrations have been added or improved throughout and disease nosology and terminology has been updated updates on the previous edition which was the first prize winner of the 2013 bma medical book award for basic and clinical sciences poses and resolves challenges to moral responsibility raised by modern genetics and neuroscience analyzes the neurogenetic origins of human behavior and free will features expanded sections on the neurogenetic basis of free will polygenic risk scores and epigenetic influence over behavior as well as improved figures and updated terminology

Living with Our Genes

2011-07-27

Behavior Genetics

1964

Behavioral Genetics

1990-01

Behavioral Genetics

2008-02-22

Nature and Nurture

2014-04-04

Human Behavior Genetics

1976

Behavioral Genetics of the Fly (Drosophila Melanogaster)

2014-06-26

Our Genes, Our Choices

2023-09-04

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