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KEY=OF - FARRELL SHEPPARD

THE SOCIETY OF GENES

Harvard University Press **Since Dawkins popularized the notion of the selfish gene, the question of how these selfish genes work together to construct an organism remained a mystery. Now, standing atop a wealth of new research, Itai Yanai and Martin Lercher—pioneers in the field of systems biology—provide a vision of how genes cooperate and compete in the struggle for life.**

GENES, GENOMES AND SOCIETY

FROM FARMING TO GENE EDITING AND BEYOND

Springer Nature

GENETICS AND SOCIETY

A SOCIOLOGY OF DISEASE

Psychology Press **Genetic science has advanced rapidly. This work looks at the history of this science and the wide-ranging impact it has had on contemporary society.**

THE SELFISH GENE

Oxford University Press, USA **An ethologist shows man to be a gene machine whose world is one of savage competition and deceit**

GENES, RADIATION, AND SOCIETY

THE LIFE AND WORK OF H.J. MULLER

THE HANDBOOK OF GENETICS & SOCIETY

MAPPING THE NEW GENOMIC ERA

Routledge **An authoritative Handbook which offers a discussion of the social,**

political, ethical and economic consequences and implications of the new bio-sciences. The Handbook takes an interdisciplinary approach providing a synoptic overview of contemporary international social science research on genetics, genomics and the new life sciences. It brings together leading scholars with expertise across a wide-ranging spectrum of research fields related to the production, use, commercialisation and regulation of genetics knowledge. The Handbook is structured into seven cross-cutting themes in contemporary social science research on genetics with introductions written by internationally renowned section editors who take an interdisciplinary approach to offer fresh insights on recent developments and issues in often controversial fields of study. The Handbook explores local and global issues and critically approaches a wide range of public and policy questions, providing an invaluable reference source to a wide variety of researchers, academics and policy makers.

WARLIKE AND PEACEFUL SOCIETIES

THE INTERACTION OF GENES AND CULTURE

Open Book Publishers **Are humans violent or peaceful by nature? We are both. In this ambitious and wide-ranging book, Agner Fog presents a ground-breaking new argument that explains the existence of differently organised societies using evolutionary theory. It combines natural sciences and social sciences in a way that is rarely seen. According to a concept called regality theory, people show a preference for authoritarianism and strong leadership in times of war or collective danger, but desire egalitarian political systems in times of peace and safety. These individual impulses shape the way societies develop and organise themselves, and in this book Agner argues that there is an evolutionary mechanism behind this flexible psychology. Incorporating a wide range of ideas including evolutionary theory, game theory, and ecological theory, Agner analyses the conditions that make us either strident or docile. He tests this theory on data from contemporary and ancient societies, and provides a detailed explanation of the applications of regality theory to issues of war and peace, the rise and fall of empires, the mass media, economic instability, ecological crisis, and much more. Warlike and Peaceful Societies: The Interaction of Genes and Culture draws on many different fields of both the social sciences and the natural sciences. It will be of interest to academics and students in these fields, including anthropology, political science, history, conflict and peace research, social psychology, and more, as well as the natural sciences, including human biology, human evolution, and ecology.**

HUMAN GENES AND GENOMES

SCIENCE, HEALTH, SOCIETY

Academic Press **In the nearly 60 years since Watson and Crick proposed the**

double helical structure of DNA, the molecule of heredity, waves of discoveries have made genetics the most thrilling field in the sciences. The study of genes and genomics today explores all aspects of the life with relevance in the lab, in the doctor's office, in the courtroom and even in social relationships. In this helpful guidebook, one of the most respected and accomplished human geneticists of our time communicates the importance of genes and genomics studies in all aspects of life. With the use of core concepts and the integration of extensive references, this book provides students and professionals alike with the most in-depth view of the current state of the science and its relevance across disciplines. Bridges the gap between basic human genetic understanding and one of the most promising avenues for advances in the diagnosis, prevention and treatment of human disease. Includes the latest information on diagnostic testing, population screening, predicting disease susceptibility, pharmacogenomics and more Explores ethical, legal, regulatory and economic aspects of genomics in medicine. Integrates historical (classical) genetics approach with the latest discoveries in structural and functional genomics

THE HUMAN GENOME

A USER'S GUIDE

Academic Press This second edition of a very successful text reflects the tremendous pace of human genetics research and the demands that it places on society to understand and absorb its basic implications. The human genome has now been officially mapped and the cloning of animals is becoming a commonplace scientific discussion on the evening news. Join authors Julia Richards and Scott Hawley as they examine the biological foundations of humanity, looking at the science behind the sensation and the current and potential impact of the study of the genome on our society. The Human Genome, Second Edition is ideal for students and non-professionals, but will also serve as a fitting guide for the novice geneticist by providing a scientific, humanistic, and ethical frame of reference for a more detailed study of genetics. New in this edition: · 60% new material, including data from the Human Genome Project and the latest genetics and ethics discussions · Several new case studies and personal stories that bring the concepts of genetics and heredity to life · Simplified treatment of material for non-biology majors · New full-color art throughout the text · New co-author, Julia Richards, joins R. Scott Hawley in this revision

NEW GENETICS, NEW IDENTITIES

Routledge What implications are applications of new genetic technologies in biomedicine having on social identity in today's society? New Genetics, New Identities, a wide-ranging multi-disciplinary volume in the CESAGen Genetics & Society Book series, presents not only theoretical reflection but

also empirical case studies drawn from an international array of authors. Including the highly controversial areas of reproductive technologies and use of human embryos in biomedical research, other key features include: a fresh analysis of a wide-range of social and political concerns in the development of new social identities examinations of the social implications of identity formation as a result from advances in genetic technologies from a number of perspectives both locally and globally resources of a wide range of social science disciplines to discuss significant sociological, anthropological, political and ethical issues. This superb collection is an essential informative read for postgraduates and academics in the fields of sociology, anthropology and scientific technologies giving a comparative approach to complex issues surrounding the social implications of these advances in a period of rapid social change.

SPLICING LIFE?

THE NEW GENETICS AND SOCIETY

Taylor & Francis **Geno-technology is a technology unlike any other, with significant implications for life in the 21st century. It directly affects us at a deeply personal level, it poses a threat to the boundaries which conventionally define selfhood, it generates potentially novel risks and dangers, and it threatens the very basis of accepted understandings of culture and society. This unique, exploratory volume discusses the ethical, cultural and philosophical issues surrounding the search for the 'book of life', focusing on the mapping of the human genome in Britain, the USA and Europe. It examines the impact of genetically modified crops, food and pharmacogenomics, along with the science and technology policy issues deriving from the human genome project. The authors investigate the potential risks and implications of the new genetics and conclude with a discussion of how nature may be reconfigured to underpin developments in health, commerce, state regulation and the law, both on a local and global scale.**

RISKY GENES

GENETICS, BREAST CANCER, AND JEWISH IDENTITY

Routledge **Ashkenazi Jews have the highest known population risk of carrying specific mutations in the high-risk breast cancer genes, BRCA1 and BRCA2. So what does it mean to be told you have an increased risk of genetic breast cancer because you are of Ashkenazi Jewish origin? In a time of ever-increasing knowledge about variations in genetic disease risk among different populations, there is a pressing need for research regarding the implications of such information for members of high-risk populations. Risky Genes provides first-hand intimate descriptions of women's experiences of being Jewish and of being at increased risk of genetic breast cancer. It explores the impact this knowledge has on their**

identity and understanding of belonging to a collective. Using qualitative data from high-risk Ashkenazi women in the UK, this book elucidates the importance of biological discourses in forging Jewish self-identity and reveals the complex ways in which biological and social understandings of Jewish belonging intersect. In *Risky Genes*, Jessica Mozersky reflects upon and offers new insight into the ongoing debates regarding the implications of genetic research for populations, and of new genetic knowledge for individual and collective identity. The book will be of interest to students and scholars of sociology, anthropology, Jewish studies, medical genetics, medical ethics, religious studies, and race and ethnic studies.

UNDERSTANDING GENES

Cambridge University Press **An accessible but rigorous introduction to genes for non-experts, explaining what genes are and what they can and cannot do.**

GENETIC MANIPULATION

IMPACT ON MAN AND SOCIETY

Cambridge University Press **Twenty-three papers by the Committee on Genetic Experimentation (COGENE) review recent advances in experimental studies on microorganisms, plants and animals.**

HUMAN GENES AND GENOMES

SCIENCE, HEALTH, SOCIETY

Academic Press **In the nearly 60 years since Watson and Crick proposed the double helical structure of DNA, the molecule of heredity, waves of discoveries have made genetics the most thrilling field in the sciences. The study of genes and genomics today explores all aspects of the life with relevance in the lab, in the doctor's office, in the courtroom and even in social relationships. In this helpful guidebook, one of the most respected and accomplished human geneticists of our time communicates the importance of genes and genomics studies in all aspects of life. With the use of core concepts and the integration of extensive references, this book provides students and professionals alike with the most in-depth view of the current state of the science and its relevance across disciplines. Bridges the gap between basic human genetic understanding and one of the most promising avenues for advances in the diagnosis, prevention and treatment of human disease. Includes the latest information on diagnostic testing, population screening, predicting disease susceptibility, pharmacogenomics and more Explores ethical, legal, regulatory and economic aspects of genomics in medicine. Integrates historical (classical) genetics approach with the latest discoveries in structural and functional genomics**

PROCEEDINGS OF THE ... CONGRESS OF THE SOUTH AFRICAN GENETIC SOCIETY

A PASSION FOR DNA

GENES, GENOMES, AND SOCIETY

OUP Oxford A collection of outspoken and topical essays, speeches, and reports by J. D. Watson, co-discoverer of the structure of DNA in 1953 and best-selling author of *The Double Helix*. These often controversial pieces cover the advance of molecular genetics, the prospect of curing cancer over the next decade, how human genetic knowledge is likely to be used, for good or bad, and Watson's early life and career.

THE EXTENDED PHENOTYPE

THE LONG REACH OF THE GENE

Oxford University Press In *The Selfish Gene*, Richard Dawkins crystallized the gene's eye view of evolution developed by W.D. Hamilton and others. The book provoked widespread and heated debate. Written in part as a response, *The Extended Phenotype* gave a deeper clarification of the central concept of the gene as the unit of selection; but it did much more besides. In it, Dawkins extended the gene's eye view to argue that the genes that sit within an organism have an influence that reaches out beyond the visible traits in that body - the phenotype - to the wider environment, which can include other individuals. So, for instance, the genes of the beaver drive it to gather twigs to produce the substantial physical structure of a dam; and the genes of the cuckoo chick produce effects that manipulate the behaviour of the host bird, making it nurture the intruder as one of its own. This notion of the extended phenotype has proved to be highly influential in the way we understand evolution and the natural world. It represents a key scientific contribution to evolutionary biology, and it continues to play an important role in research in the life sciences. *The Extended Phenotype* is a conceptually deep book that forms important reading for biologists and students. But Dawkins' clear exposition is accessible to all who are prepared to put in a little effort. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

THE MATERIAL GENE

GENDER, RACE, AND HEREDITY AFTER THE HUMAN GENOME PROJECT

NYU Press Winner of the 2014 Diamond Anniversary Book Award Finalist for the 2014 National Communications Association Critical and Cultural Studies Division Book of the Year Award In 2000, the National Human Genome Research Institute announced the completion of a "draft" of the human

genome, the sequence information of nearly all 3 billion base pairs of DNA. Since then, interest in the hereditary basis of disease has increased considerably. In *The Material Gene*, Kelly E. Happe considers the broad implications of this development by treating “heredity” as both a scientific and political concept. Beginning with the argument that eugenics was an ideological project that recast the problems of industrialization as pathologies of gender, race, and class, the book traces the legacy of this ideology in contemporary practices of genomics. Delving into the discrete and often obscure epistemologies and discursive practices of genomic scientists, Happe maps the ways in which the hereditarian body, one that is also normatively gendered and racialized, is the new site whereby economic injustice, environmental pollution, racism, and sexism are implicitly reinterpreted as pathologies of genes and by extension, the bodies they inhabit. Comparing genomic approaches to medicine and public health with discourses of epidemiology, social movements, and humanistic theories of the body and society, *The Material Gene* reworks our common assumption of what might count as effective, just, and socially transformative notions of health and disease.

WHAT GENES CAN'T DO

MIT Press A historical and critical analysis of the concept of the gene that attempts to provide new perspectives and metaphors for the transformation of biology and its philosophy.

ALTERED INHERITANCE

CRISPR AND THE ETHICS OF HUMAN GENOME EDITING

Harvard University Press With the advent of CRISPR gene-editing technology, designer babies have become a reality. Françoise Baylis insists that scientists alone cannot decide the terms of this new era in human evolution. Members of the public, with diverse interests and perspectives, must have a role in determining our future as a species.

SOCIAL BEHAVIOUR

GENES, ECOLOGY AND EVOLUTION

Cambridge University Press A comprehensive analysis of the genetic, ecological and phylogenetic aspects of social behaviour, by experts in the field.

THE SELFISH GENE

40TH ANNIVERSARY EDITION

Oxford University Press The million copy international bestseller, critically acclaimed and translated into over 25 languages. As influential today as when it was first published, *The Selfish Gene* has become a classic

exposition of evolutionary thought. Professor Dawkins articulates a gene's eye view of evolution - a view giving centre stage to these persistent units of information, and in which organisms can be seen as vehicles for their replication. This imaginative, powerful, and stylistically brilliant work not only brought the insights of Neo-Darwinism to a wide audience, but galvanized the biology community, generating much debate and stimulating whole new areas of research. Forty years later, its insights remain as relevant today as on the day it was published. This 40th anniversary edition includes a new epilogue from the author discussing the continuing relevance of these ideas in evolutionary biology today, as well as the original prefaces and foreword, and extracts from early reviews. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

THE GENETIC LOTTERY

WHY DNA MATTERS FOR SOCIAL EQUALITY

Princeton University Press **A provocative and timely case for how the science of genetics can help create a more just and equal society** In recent years, scientists like Kathryn Paige Harden have shown that DNA makes us different, in our personalities and in our health—and in ways that matter for educational and economic success in our current society. In *The Genetic Lottery*, Harden introduces readers to the latest genetic science, dismantling dangerous ideas about racial superiority and challenging us to grapple with what equality really means in a world where people are born different. Weaving together personal stories with scientific evidence, Harden shows why our refusal to recognize the power of DNA perpetuates the myth of meritocracy, and argues that we must acknowledge the role of genetic luck if we are ever to create a fair society. Reclaiming genetic science from the legacy of eugenics, this groundbreaking book offers a bold new vision of society where everyone thrives, regardless of how one fares in the genetic lottery.

HUMAN GENETICS AND SOCIETY

Cengage Learning **HUMAN GENETICS AND SOCIETY** engages students and demonstrates the relevance of genetics with an integrated case-based approach. Written for non-science majors, this text grabs student attention and shows them the importance of genetics by placing concepts within real-life contexts that students can appreciate throughout every chapter. Not just relegated to features, boxes, and the end of chapters, this book's real-world cases and intriguing questions are woven throughout the chapter narrative, vividly showing students how and why the concepts of human genetics are vital to their personal lives and to society at large. **Important Notice:** Media content referenced within the product description or the product text may not be available in the ebook version.

THE SPIRIT OF THE HIVE

Harvard University Press **How can 40,000 bees working in the dark, by instinct alone, construct a honey comb? Synthesizing decades of experiments, *The Spirit of the Hive* presents the genetic and physiological mechanisms underlying the division of labor in honey bee colonies and explains how it is an inevitable product of group living, evolving over millions of years.**

GENETICS AND THE UNSETTLED PAST

THE COLLISION OF DNA, RACE, AND HISTORY

Rutgers University Press **Our genetic markers have come to be regarded as portals to the past. Analysis of these markers is increasingly used to tell the story of human migration; to investigate and judge issues of social membership and kinship; to rewrite history and collective memory; to right past wrongs and to arbitrate legal claims and human rights controversies; and to open new thinking about health and well-being. At the same time, in many societies genetic evidence is being called upon to perform a kind of racially charged cultural work: to repair the racial past and to transform scholarly and popular opinion about the “nature” of identity in the present. *Genetics and the Unsettled Past* considers the alignment of genetic science with commercial genealogy, with legal and forensic developments, and with pharmaceutical innovation to examine how these trends lend renewed authority to biological understandings of race and history. This unique collection brings together scholars from a wide range of disciplines—biology, history, cultural studies, law, medicine, anthropology, ethnic studies, sociology—to explore the emerging and often contested connections among race, DNA, and history. Written for a general audience, the book’s essays touch upon a variety of topics, including the rise and implications of DNA in genealogy, law, and other fields; the cultural and political uses and misuses of genetic information; the way in which DNA testing is reshaping understandings of group identity for French Canadians, Native Americans, South Africans, and many others within and across cultural and national boundaries; and the sweeping implications of genetics for society today.**

NOT BY GENES ALONE

HOW CULTURE TRANSFORMED HUMAN EVOLUTION

University of Chicago Press **Humans are a striking anomaly in the natural world. While we are similar to other mammals in many ways, our behavior sets us apart. Our unparalleled ability to adapt has allowed us to occupy virtually every habitat on earth using an incredible variety of tools and subsistence techniques. Our societies are larger, more complex, and more cooperative than any other mammal's. In this stunning exploration of human adaptation, Peter J. Richerson and Robert Boyd argue that only a**

Darwinian theory of cultural evolution can explain these unique characteristics. *Not by Genes Alone* offers a radical interpretation of human evolution, arguing that our ecological dominance and our singular social systems stem from a psychology uniquely adapted to create complex culture. Richerson and Boyd illustrate here that culture is neither superorganic nor the handmaiden of the genes. Rather, it is essential to human adaptation, as much a part of human biology as bipedal locomotion. Drawing on work in the fields of anthropology, political science, sociology, and economics—and building their case with such fascinating examples as kayaks, corporations, clever knots, and yams that require twelve men to carry them—Richerson and Boyd convincingly demonstrate that culture and biology are inextricably linked, and they show us how to think about their interaction in a way that yields a richer understanding of human nature. In abandoning the nature-versus-nurture debate as fundamentally misconceived, *Not by Genes Alone* is a truly original and groundbreaking theory of the role of culture in evolution and a book to be reckoned with for generations to come. “I continue to be surprised by the number of educated people (many of them biologists) who think that offering explanations for human behavior in terms of culture somehow disproves the suggestion that human behavior can be explained in Darwinian evolutionary terms. Fortunately, we now have a book to which they may be directed for enlightenment It is a book full of good sense and the kinds of intellectual rigor and clarity of writing that we have come to expect from the Boyd/Richerson stable.”—Robin Dunbar, *Nature* “*Not by Genes Alone* is a valuable and very readable synthesis of a still embryonic but very important subject straddling the sciences and humanities.”—E. O. Wilson, Harvard University

THE HUMAN GENOME

A USER'S GUIDE

Academic Press First ed. by R. Scott Hawley and Catherine A. Mori.

GENOME: THE AUTOBIOGRAPHY OF A SPECIES IN 23 CHAPTERS

HarperCollins UK The most important investigation of genetic science since *The Selfish Gene*, from the author of the critically acclaimed and best-selling *The Red Queen* and *The Origins of Virtue*.

NOT IN OUR GENES

BIOLOGY, IDEOLOGY AND HUMAN NATURE

THE GENETICS OF SOCIAL EVOLUTION

CRC Press The contributor's primary goal in organizing this book was to initiate a synthesis of thought on how genetics structures the behavior of individual animals that live within complex social systems. To do this they

have brought together leading theorists and empiricists who apply genetics to the study of eusocial insect evolution.

IN THE LIGHT OF EVOLUTION

VOLUME X: COMPARATIVE PHYLOGEOGRAPHY

National Academies Press **Biodiversity-the genetic variety of life-is an exuberant product of the evolutionary past, a vast human-supportive resource (aesthetic, intellectual, and material) of the present, and a rich legacy to cherish and preserve for the future. Two urgent challenges, and opportunities, for 21st-century science are to gain deeper insights into the evolutionary processes that foster biotic diversity, and to translate that understanding into workable solutions for the regional and global crises that biodiversity currently faces. A grasp of evolutionary principles and processes is important in other societal arenas as well, such as education, medicine, sociology, and other applied fields including agriculture, pharmacology, and biotechnology. The ramifications of evolutionary thought also extend into learned realms traditionally reserved for philosophy and religion. The central goal of the In the Light of Evolution (ILE) series is to promote the evolutionary sciences through state-of-the-art colloquia-in the series of Arthur M. Sackler colloquia sponsored by the National Academy of Sciences-and their published proceedings. Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or challenges. This tenth and final edition of the In the Light of Evolution series focuses on recent developments in phylogeographic research and their relevance to past accomplishments and future research directions.**

SPLICING LIFE

A REPORT ON THE SOCIAL AND ETHICAL ISSUES OF GENETIC ENGINEERING WITH HUMAN BEINGS

VIOLUTION

HarperCollins UK **The extraordinary role of viruses in evolution and how this is revolutionising biology and medicine.**

GENES, SOCIETY AND THE FUTURE, VOLUME II, PART FOUR

GENETIC TESTING OF CHILDREN WHO CANNOT GIVE VALID CONSENT

Abstract for all parts of ...

GENETICS, HEALTH, AND SOCIETY

Emerald Group Publishing **This volume focuses on critical issues surrounding the intersection of genetics, health, and society. It provides a critical**

examination of sociological and biomedical approaches to genomics, including strengths and limitations of each perspective.

GENDER AND GENETICS

SOCIOLOGY OF THE PRENATAL

Routledge Prenatal screening for genetic disorders is becoming an increasingly widespread phenomenon across the globe. While studies have highlighted the importance of women's experiences of such screening, little is known about men's roles and direct involvement in this process. With a focus on the experiences of both women and men, this text offers an innovative and passionate account of the gendered nature of prenatal screening. Drawing on interview data with pregnant women and their male partners in a UK city, Reed provides a compelling analysis of maternal and paternal roles in prenatal screening. Through this analysis, the book raises important issues around genetics, gender and screening practice. With a focus on the gendered production of 'good' and 'bad' genes, the book explores differences between visual technologies and blood screening. It also explores the gendered nature of genetic responsibility and the impact this has on parenting roles. Extending its arguments into other key debates in prenatal genetics - including a focus on the impact of screening on other types of stratification, including ethnicity and class - Reed provides an original and comprehensive analysis of some of the most pressing concerns in the field to date. This book will be of interest to students and scholars of the sociology of health and illness, science and technology studies, gender studies, feminist bioethics and medical anthropology, as well as professionals in the fields of midwifery and genetic counselling.

CYBERGENETICS

HEALTH GENETICS AND NEW MEDIA

Routledge Online genetic testing services are increasingly being offered to consumers who are becoming exposed to, and knowledgeable about, new kinds of genetic technologies, as the launch of a 23andme genetic testing product in the UK testifies. Genetic research breakthroughs, cheek swabbing forensic pathologists and celebrities discovering their ancestral roots are littered throughout the North American, European and Australasian media landscapes. Genetic testing is now capturing the attention, and imagination, of hundreds of thousands of people who can not only buy genetic tests online, but can also go online to find relatives, share their results with strangers, sign up for personal DNA-based musical scores, and take part in research. This book critically examines this market of direct-to-consumer (DTC) genetic testing from a social science perspective, asking, what happens when genetics goes online? With a focus on genetic testing for disease, the book is about the new social

arrangements which emerge when a traditionally clinical practice (genetic testing) is taken into new spaces (the internet). It examines the intersections of new genetics and new media by drawing from three different fields: internet studies; the sociology of health; and science and technology studies. While there has been a surge of research activity concerning DTC genetic testing, particularly in sociology, ethics and law, this is the first scholarly monograph on the topic, and the first book which brings together the social study of genetics and the social study of digital technologies. This book thus not only offers a new overview of this field, but also offers a unique contribution by attending to the digital, and by drawing upon empirical examples from our own research of DTC genetic testing websites (using online methods) and in-depth interviews in the United Kingdom with people using healthcare services.

GENES, BRAIN FUNCTION, AND BEHAVIOR

WHAT GENES DO, HOW THEY MALFUNCTION, AND WAYS TO REPAIR DAMAGE

Academic Press **Genes, Brain Function, and Behavior** offers a concise description of the nervous system that processes sensory input and initiates motor movements. It reviews how behaviors are defined and measured, and how experts decide when a behavior is perturbed and in need of treatment. Behavioral disorders that are clearly related to a defect in a specific gene are reviewed, and the challenges of understanding complex traits such as intelligence, autism and schizophrenia that involve numerous genes and environmental factors are explored. New methods of altering genes offer hope for treating or even preventing difficulties that arise in our genes. This book explains what genes are, what they do in the nervous system, and how this impacts both brain function and behavior. Presents essential background, facts, and terminology about genes, brain function, and behavior Builds clear explanations on this solid foundation while minimizing technical jargon Explores in depth several single-gene and chromosomal neurological disorders Derives lessons from these clear examples and highlights key lessons in boxes Examines the intricacies of complex traits that involve multiple genetic and environmental factors by applying lessons from simpler disorders Explains diagnosis and definition Includes a companion website with Powerpoint slides and images for each chapter for instructors and links to resources