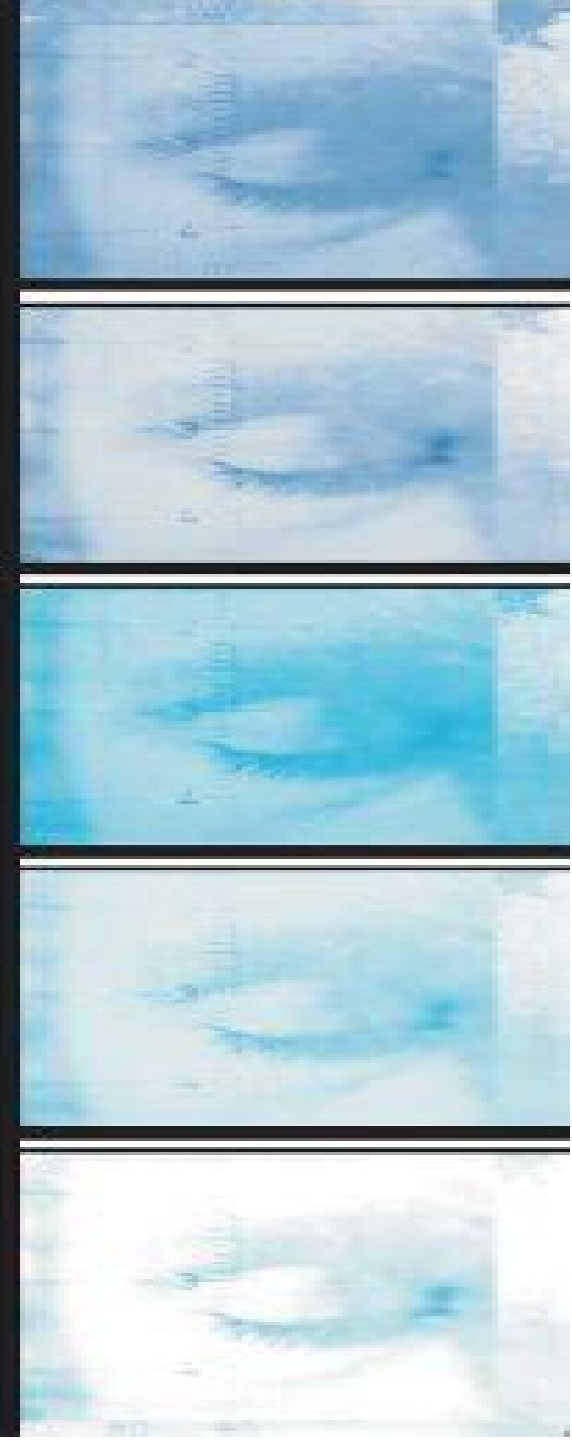


# Molecular Genetics and the Human Personality

Edited by  
Jonathan Benjamin, M.D.  
Richard P. Ebstein, Ph.D.  
Robert H. Belmaker, M.D.



# Molecular Genetics And The Human Personality

**Con Stough**



## **Molecular Genetics And The Human Personality:**

*Molecular Genetics and the Human Personality* Jonathan Benjamin, Richard P. Ebstein, Robert H. Belmaker, 2008-08-13 In the 1960 s and 1970 s personality and mental illness were conceptualized in an intertwined psychodynamic model Biological psychiatry for many un weaved that model and took mental illness for psychiatry and left personality to psychology This book brings personality back into biological psychiatry not merely in the form of personality disorder but as part of a new intertwined molecular genetic model of personality and mental disorder This is the beginning of a new conceptual paradigm This breakthrough volume marks the beginning of a new era an era made possible by the electrifying pace of discovery and innovation in the field of molecular genetics In fact several types of genome maps have already been completed and today s experts confidently predict that we will have a smooth version of the sequencing of the human genome which contains some 3 billion base pairs Such astounding progress helped fuel the development of this remarkable volume the first ever to discuss the brand new and often controversial field of molecular genetics and the human personality Questioning critical and strong on methodological principles this volume reflects the point of view of its 35 distinguished contributors all pioneers in this burgeoning field and themselves world class theoreticians empiricists clinicians developmentalists and statisticians For students of psychopathology and others bold enough to hold in abeyance their understandable misgivings about the conjunction of molecular genetics and human personality this work offers an authoritative and up to date introduction to the molecular genetics of human personality The book with its wealth of facts conjectures hopes and misgivings begins with a preface by world renowned researcher and author Irving Gottesman The authors masterfully guide us through Chapter 1 principles and methods Chapter 4 animal models for personality and Chapter 11 human intelligence as a model for personality laying the groundwork for our appreciation of the remaining empirical findings of human personality qua personality Many chapters 6 7 9 11 and 13 emphasize the neurodevelopmental and ontogenetic aspects of personality with a major emphasis on the receptors and transporters for the neurotransmitters dopamine and serotonin Though these neurotransmitters are a rational starting point now the future undoubtedly will bring many other candidate genes that today cannot even be imagined given our ignorance of the genes involved in the prenatal development of the central nervous system Chapter 3 provides an integrative overview of the broad autism phenotype and as such will be of special interest to child psychiatrists Chapters 5 8 and 10 offer enlightening information on drug and alcohol abuse Chapter 14 discusses variations in sexuality Adding balance and mature perspectives on how all the chapters complement and sometimes challenge one another are Chapter 2 written by a major figure in the renaissance of the relevance to psychopathology of both genetics and personality Chapters 15 17 informed critical appraisals citing concerns and cautions about premature applications of this information in the policy arena and Chapter 18 a judicious contemplation by the editors themselves of this promising and to some alarming field Clear and meticulously researched this eminently satisfying work is written to

introduce the subject to postgraduate students just beginning to develop their research skills to interested psychiatric practitioners and to informed laypersons with some scientific background

**Handbook of Behavior Genetics** Yong-Kyu Kim, 2009-03-25 Behavior Genetics is an interdisciplinary area combining behavioral sciences and genetics The study of behavior genetics has become increasingly important as we see growth spurts in finding genes involved in complex behaviors following on advances in molecular genetic techniques This domain has now become a vast common ground for scientists from very diverse fields including psychology psychiatry neurology endocrinology biochemistry neuroimaging and genetics However there are not many textbooks or references to which students in behavior genetics can access for their research and class The purpose of this handbook is to offer research guides to the studies of genetic and environmental influences on a variety of complex behaviors in humans and animals Unlike previous behavior genetics textbooks this handbook will discuss current research and topics of interest to psychologists psychiatrists and geneticists Utilizing methodologies and theories commonly used in behavior genetics each chapter will begin with an overview of the selected topic current research and issues will be intensively reviewed and we will direct future research on the topic at the end of the end of the chapter So the handbook will integrate many of the basic issues of the Behavior Genetics and will enhance our understanding in many fields Therefore this handbook will provide future research endeavors for the next 10 years Throughout this handbook the editor will collaborate with contributors who are internationally well known in the field The Behavior Genetics Association members and the Behavior Genetics Editorial Advisory Board will be invited to review the manuscripts of this handbook

Vogel and Motulsky's Human Genetics Michael Speicher, Stylianos E. Antonarakis, Arno G. Motulsky, 2009-11-26 The fourth edition of this classical reference book can once again be relied upon to present a cohesive and up to date exposition of all aspects of human and medical genetics Human genetics has become one of the main basic sciences in medicine and molecular genetics is increasingly becoming a major part of this field This new edition integrates a wealth of new information mainly describing the influence of the molecular revolution including the principles of epigenetic processes which together create the phenotype of a human being Other revisions are an improved layout sub division into a larger number of chapters as well as two colour print throughout for ease of reference and many of the figures are now in full colour For graduates and those already working in medical genetics

**Handbook of Clinical Psychology, Volume 1** Michel Hersen, Alan M. Gross, 2008-01-09 Handbook of Clinical Psychology Volume 1 Adults provides comprehensive coverage of the fundamentals of clinical psychological practice for adults from assessment through treatment including the innovations of the past decade in ethics cross cultural psychology psychoneuroimmunology cognitive behavioral treatment psychopharmacology and geropsychology

*Neurobiology of Exceptionality* Con Stough, 2006-09-28 Nurture or nature Biology or environment Why are some people intelligent or personable or creative and others obtuse or shy or unimaginative Although each human being is a unique mixture of positive and negative traits and behaviors the question remains What is the neurobiological basis for

each individual's makeup. For example, why does one person suffer from a disorder (e.g., ADHD, autism, mental retardation) and another lives free of maladies? These are just some of the issues addressed in detail in *Neurobiology of Exceptionality*. The introductory chapter provides a broad-based overview of current neurobiological techniques (i.e., terms, procedures, and technologies) which are followed by chapters that offer in-depth examination of the neurobiological bases for Impulsive sensation seeking, Creativity, Intelligence, Antisociality, Autism, mental retardation, and Down Syndrome, ADHD, Savant Syndrome. This volume provides a one-stop source for clinical psychologists and other allied mental health professionals to access information on a wide range of research on the neurobiology of psychological and psychiatric traits. It is designed to give readers an overview of the current knowledge base of the biological processes for each trait. It is unlikely that any one book could cover all human traits, but the *Neurobiology of Exceptionality* addresses a wide range of exceptional psychological traits and psychiatric disorders.

**Psychiatric Genetics and Genomics** Peter McGuffin, Michael J. Owen, Irving I. Gottesman, 2004-09-23. Geneticists and will be essential reading for psychiatrists and geneticists and will be of interest to neurologists, psychologists, and neuroscientists.

**Evolutionary and Neurocognitive Approaches to Aesthetics, Creativity and the Arts** Colin Martindale, Paul Locher, Vladimir M. Petrov, Arnold Berleant, 2019-06-04. In this book, well-known scholars describe new and exciting approaches to aesthetics, creativity, and psychology of the arts, approaching these topics from a point of view that is biological or related to biology and answering new questions with new methods and theories. All known societies produce and enjoy arts such as literature, music, and visual decoration or depiction. Judging from prehistoric archaeological evidence, this arose very early in human development. Furthermore, Darwin was explicit in attributing aesthetic sensitivity to lower animals. These considerations lead us to wonder whether the arts might not be evolutionarily based. Although such an evolutionary basis is not obvious on the face of it, the idea has recently elicited considerable attention. The book begins with a consideration of ten theories on the evolutionary function of specific arts such as music and literature. The theory of evolution was first drawn up in biology, but evolution is not confined to biology; genuinely evolutionary theories of sociocultural change can be formulated. That they need to be formulated is shown in several chapters that discuss regular trends in literature and scientific writings. Psychologists have recently rediscovered the obvious fact that thought and perception occur in the brain, so cognitive science moves ever closer to neuroscience. Several chapters give overviews of neurocognitive and neural network approaches to creativity and aesthetic appreciation. The book concludes with two exciting descriptions of brain scan research on what happens in the brain during creativity and presenting a close examination of the relationship between genetically transmitted mental disorder and creativity.

**Neurobiology of Aggression** Mark P. Mattson, 2003-03-24. Aggression is a highly conserved behavioral adaptation that evolved to help organisms compete for limited resources and thereby ensure their survival. However, in modern societies where resources such as food, shelter, etc. are not limiting, aggression has become a major cultural problem worldwide, presumably because of its deep-seeded

roots in the neuronal circuits and neurochemical pathways of the human brain In *Neurobiology of Aggression Understanding and Preventing Violence* leading experts in the fields of the neurobiology neurochemistry genetics and behavioral and cultural aspects of aggression and violence provide a comprehensive collection of review articles on one of the most important cross disciplinary issues of our time Rather than summarize the topics covered by each author in each chapter I present a schematic diagram to guide the reader in thinking about different aspects of aggressive and violent behavior from its neurobiological roots to environmental factors that can either promote or prevent aggression to visions of some of the most horrific acts of violence of our times and then towards the development of strategies to reduce aggressive behavior and prevent violence It is hoped that *Neurobiology of Aggression Understanding and Preventing Violence* will foster further research aimed at understanding the environmental genetic and neurochemical roots of aggression and how such information can be used to move forward towards the goal of eliminating violence

**The Trouble with Twin Studies** Jay Joseph, 2014-11-20 The Trouble with Twin Studies questions popular genetic explanations of human behavioral differences based upon the existing body of twin research Psychologist Jay Joseph outlines the fallacies of twin studies in the context of the ongoing decades long failure to discover genes for human behavioral differences including IQ personality and the major psychiatric disorders This volume critically examines twin research with a special emphasis on reared apart twin studies and incorporates new and updated perspectives analyses arguments and evidence

**The Missing Gene** Jay Joseph, 2006 Researchers still haven't found the genes that underlie schizophrenia bipolar disorder ADHD and autism perhaps they do not exist A genetic researcher in psychiatry and psychology urges we return our focus to family social and political environments as the sources of psychological distress

*The Biological Foundations of Organizational Behavior* Stephen M. Colarelli, Richard D. Arvey, 2015-01-02 In recent years evolutionary psychology and behavioral genetics have emerged as prominent theoretical perspectives within the social sciences Yet despite broad levels of commonality between the disciplines including an emphasis on adaptation evolved mechanisms that guide behavior and consequences of mismatch between these mechanisms and novel environments studies that apply these perspectives on social behavior to organizations remain relatively rare The Biological Foundations of Organizational Behavior brings together contributors who shed light on the potential that behavioral genetics and evolutionary psychology offer for studies of organizational behavior In addition to examining the extant literature integrating these disciplines and organizational behavior the book reconsiders a wide range of topics through the lens of biology within organizational behavior including decision making leadership and hierarchy goals and collective action and individual difference Contributions also explore new areas of potential application and provide a critical assessment of the challenges that lie ahead With accessible insights for scholars and practitioners The Biological Foundations of Organizational Behavior marks a promising step forward in what is increasingly perceived to be an underdeveloped area of organizational behavior

Encyclopedia of Behavioral Neuroscience, 2010-06-03 Behavioral

Neuroscientists study the behavior of animals and humans and the neurobiological and physiological processes that control it. Behavior is the ultimate function of the nervous system and the study of it is very multidisciplinary. Disorders of behavior in humans touch millions of people's lives significantly and it is of paramount importance to understand pathological conditions such as addictions, anxiety, depression, schizophrenia, autism, among others, in order to be able to develop new treatment possibilities. **Encyclopedia of Behavioral Neuroscience** is the first and only multi-volume reference to comprehensively cover the foundation knowledge in the field. This three-volume work is edited by world-renowned behavioral neuroscientists George F. Koob (The Scripps Research Institute), Michel Le Moal (Université Bordeaux), and Richard F. Thompson (University of Southern California) and written by a premier selection of the leading scientists in their respective fields. Each section is edited by a specialist in the relevant area. The important research in all areas of Behavioral Neuroscience is covered in a total of 210 chapters on topics ranging from neuroethology and learning and memory to behavioral disorders and psychiatric diseases. The only comprehensive **Encyclopedia of Behavioral Neuroscience** on the market. Addresses all recent advances in the field. Written and edited by an international group of leading researchers truly representative of the behavioral neuroscience community. Includes many entries on the advances in our knowledge of the neurobiological basis of complex behavioral, psychiatric, and neurological disorders. Richly illustrated in full color. Extensively cross-referenced to serve as the go-to reference for students and researchers alike. The online version features full searching, navigation, and linking functionality. An essential resource for libraries serving neuroscientists, psychologists, neuropharmacologists, and psychiatrists.

**Animal Personalities** Claudio Carere, Dario Maestripieri, 2024-05-31. Ask anyone who has owned a pet and they'll assure you that yes, animals have personalities. And science is beginning to agree. Researchers have demonstrated that both domesticated and nondomesticated animals, from invertebrates to monkeys and apes, behave in consistently different ways, meeting the criteria for what many define as personality. But why the differences and how are personalities shaped by genes and environment? How did they evolve? The essays in **Animal Personalities** reveal that there is much to learn from our furred and feathered friends. The study of animal personality is one of the fastest-growing areas of research in behavioral and evolutionary biology. Here, Claudio Carere and Dario Maestripieri, along with a host of scholars from fields as diverse as ecology, genetics, endocrinology, neuroscience, and psychology, provide a comprehensive overview of the current research on animal personality. Grouped into thematic sections, chapters approach the topic with empirical and theoretical material and show that to fully understand why personality exists, we must consider the evolutionary processes that give rise to personality, the ecological correlates of personality differences, and the physiological mechanisms underlying personality variation.

**Neurobehavioral Genetics** Byron C. Jones, Pierre Mormede, 2006-08-30. A complete background to concepts and principles of behavioral genetics. **Neurobehavioral Genetics: Methods and Applications**, Second Edition, features a broad spectrum of the most current techniques in neurobehavioral genetics in a single source. International researchers incorporate

several new developments in the field including De **Handbook of Temperament** Marcel Zentner, Rebecca L. Shiner, 2015-09-01 Timely and authoritative this unique handbook explores the breadth of current knowledge on temperament from foundational theory and research to clinical applications Leaders in the field examine basic temperament traits assessment methods and what brain imaging and molecular genetics reveal about temperament's biological underpinnings The book considers the pivotal role of temperament in parent child interactions attachment peer relationships and the development of adolescent and adult personality and psychopathology Innovative psychological and educational interventions that take temperament into account are reviewed Integrative in scope the volume features extensive cross referencing among chapters and a forward looking summary chapter Rutter's Child and Adolescent Psychiatry Sir Michael J. Rutter, Dorothy Bishop, Daniel S. Pine, Stephen Scott, Jim S. Stevenson, Eric A. Taylor, Anita Thapar, 2011-08-24 Rutter's Child and Adolescent Psychiatry has become an established and accepted textbook of child psychiatry Now completely revised and updated the fifth edition provides a coherent appraisal of the current state of the field to help trainee and practising clinicians in their daily work It is distinctive in being both interdisciplinary and international in its integration of science and clinical practice and in its practical discussion of how researchers and practitioners need to think about conflicting or uncertain findings This new edition now offers an entirely new section on conceptual approaches and several new chapters including neurochemistry and basic pharmacology brain imaging health economics psychopathology in refugees and asylum seekers bipolar disorder attachment disorders statistical methods for clinicians This leading textbook provides an accurate and comprehensive account of current knowledge through the integration of empirical findings with clinical experience and practice and is essential reading for professionals working in the field of child and adolescent mental health and clinicians working in general practice and community pediatric settings Human Behavior Theory and Social Work Practice Roberta R. Greene, 2017-07-28 Human Behavior Theory and Social Work Practice remains a foundation work for those interested in the practice and teaching of social work Roberta Greene covers theoretical areas and individual theorists including classical psychoanalytic thought Eriksonian theory Carl Rogers cognitive theory systems theory ecological perspectives social construction feminism and genetics She discusses the historical context its philosophical roots and major assumptions of each theory The general theme which distinguishes this volume is that the person in environment perspective has been a central influence in the formation of the profession's knowledge base as well as its approach to practice Greene provides perspective on how individuals and social systems interact This book examines how social workers can use theory to shape social work practice by increasing his or her understanding of and potential for enhancing human well being Greene covers the relationship between human behavior theory and professional social work practice She also explores the challenges and limitations of each theory and addresses the following issues how the theory serves as a framework for social work practice how the theory lends itself to an understanding of individual family group community or organizational



behavior what the implications are of the theory for social work interventions or practice strategies and what role it proposes for the social worker as a change agent Throughout the profession s history social workers have turned to a number of theoretical approaches for the organizing concepts needed to define their practice base The aims of social work to improve societal conditions and to enhance social functioning of and between individuals families and groups are put into action across all fields of practice and realized through a variety of methods in a range of settings This third edition completely revised represents a fundamental contribution to the field and like its predecessors will be widely used as a basic text

**Neurotransmitter Transporters** Harald Sitte, Michael Freissmuth, 2006-08-02 This book is a representative survey of the current status of the structure function regulation and molecular pharmacology of Neurotransmitter Transporters It provides an overview of insights generated in the past five years The volume serves as a useful compendium of current concepts and an inspiring starting point It is a source for students interested in this emerging field as well as for experienced scientists looking for an update

*The Corsini Encyclopedia of Psychology, Volume 3* Irving B. Weiner, W. Edward Craighead, 2010-01-19 Psychologists researchers teachers and students need complete and comprehensive information in the fields of psychology and behavioral science The Corsini Encyclopedia of Psychology Volume Three has been the reference of choice for almost three decades This indispensable resource is updated and expanded to include much new material It uniquely and effectively blends psychology and behavioral science The Fourth Edition features over 1 200 entries complete coverage of DSM disorders and a bibliography of over 10 000 citations Readers will benefit from up to date and authoritative coverage of every major area of psychology

*The Routledge International Handbook of Psychosocial Epidemiology* Mika Kivimäki, David Batty, Ichiro Kawachi, Andrew Steptoe, 2017-12-14 The health effects of psychosocial factors are a widely discussed and controversial topic Do positive and negative emotions affect our risk of developing physical disease Are depressive individuals more likely to have cancer than those with an optimistic outlook on life And what is the role of IQ in staying healthy and recovering from disease Importantly can we improve our health and life expectancy by avoiding certain psychosocial risk factors and maximizing positive psychological well being These and other questions are the focus of psychosocial epidemiology a discipline linking psychological social and biological sciences The Routledge International Handbook of Psychosocial Epidemiology is the first book to map this growing discipline Including contributions from many of the leading researchers in the field it is divided into five sections Part I Methodological challenges in studying psychosocial factors and health Part II Psychosocial factors in the etiology and prognosis of chronic diseases Part III Controversies in the psychosocial approach Part IV Interventions and policy implications Part V Future research directions Taking advantage of a huge growth in research in recent years the book provides the reader with the essentials to evaluate the diverse set of studies on psychosocial factors and health that are published today and describes study designs in this field of research progress in judging the validity of epidemiological evidence as well as challenges in translating evidence into action This is

an important and timely book Providing methodological rigour critical analysis and the policy implications of this emerging field of study The Routledge International Handbook of Psychosocial Epidemiology will be an invaluable resource for students and researchers within both behavioural and medical sciences as well as policy makers and others working in health and social care

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