

Psychiatric Genetics and Forensic Psychiatry: A Review

Stephen H. Dinwiddie, MD

Research in psychiatric genetics has been revolutionized by the development of new and powerful molecular genetic techniques. Family, twin, and adoption studies of antisocial personality disorder (ASPD) and criminality are reviewed, and ramifications of new research methods for the study of antisocial behavior are considered. Implications of these developments for forensic psychiatry are discussed.

Recent advances in molecular genetic techniques and psychiatric genetics hold the promise that heritable factors associated with increased liability for psychiatric illness as well as those influencing normal personality variation may be identified, ultimately leading to characterization of their structure and function at the molecular level. Such analysis may ultimately allow researchers the opportunity more fully to understand how inborn, heritable traits and postnatal environment interact in the development of psychopathology. The purpose of this article is therefore to review recent developments in psychiatric genetics, with particular emphasis on studies of criminality and Antisocial Personality Disorder (ASPD).

Family Studies

The familial nature of many psychiatric illnesses has long been recognized.

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Over time the list of familial psychiatric illnesses has grown to include alcoholism,¹ other substance abuse,² schizophrenia,³ unipolar depression and manic-depressive illness,⁴⁻⁶ Briquet's syndrome,⁷⁻⁹ obsessive-compulsive disorder,⁸ and anxiety states,¹⁰⁻¹¹ among others.

The inheritance of criminal behavior has likewise been studied for decades.¹²⁻¹⁴ Such studies generally take one of two approaches: either studying the transmissibility of criminality between generations, or investigating the familiarity of ASPD. It should be kept in mind, however, that while there is considerable overlap, ASPD is not equivalent to criminality, and both may differ in important respects from antisocial behavior, which does not necessarily imply either early onset or arrest.¹⁵⁻¹⁶ Moreover, from the standpoint of genetic studies, even ASPD, a reliable and validated diagnostic category, appears to be a heterogeneous grouping.^{17,18}

Early family studies of criminality and

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John I. Nurnberger, Wade Berrettini



Psychiatric Genetics Review Of Psychiatry:

Psychiatric Genetics Kenneth S. Kendler, Lindon J. Eaves, 2007-05-03 *Psychiatric Genetics* is a concise reference that presents the complexities of this dynamic field in a clearly written easily accessible format with numerous tables and illustrations Ten expert contributors offer a fascinating view of psychiatric genetics in a text that is thorough and scholarly yet also succinct and accessible The introduction summarizes the field s four distinct paradigms and their interrelationships that help us understand the role of genetic factors in the etiology of psychiatric disorders basic genetic epidemiology which demonstrates heritability advanced genetic epidemiology which explores the nature and mode of action of these genetic risk factors gene finding which enables us to infer the probability that a locus in the genomic region under investigation contributes to psychiatric disorder liability and molecular genetics which traces the biological mechanisms by which the DNA variant identified using gene finding methods contributes to the disorder itself *Psychiatric Genetics* illustrates the importance of Appreciating the complex field of psychiatric genetics Presents the major conceptual and statistical issues in psychiatric genetics including many of the basic principles of both genetic epidemiology and gene finding as well as a brief review of DNA itself Detailing the results for one disorder where substantial progress had been made in gene finding and molecular genetics Covers schizophrenia because of the substantial progress made during the past few years Presenting results for a more typical and common set of psychiatric disorders where most of our information comes from basic and advanced genetic epidemiology and where we are just beginning to make advances using gene finding Discusses anxiety disorders which illustrate these sets of issues Covering disorders where major advances have been made using basic and advanced genetic epidemiology Details substance use disorders where the paradigm has shifted from sociological to genetic factors and where in contrast to the genetics of more traditional psychiatric disorders researchers must consider the inherent conditionality of drug abuse Investigating the role of genetics in personality disorders Focuses on the development of conduct and antisocial behavior and how to incorporate developmental processes into analyses of the role of genetics *Psychiatric Genetics* draws students educators and practitioners alike into the exciting world of psychiatric genetics with a lively discussion of its broad trends and of the strengths and limitations of its methods to provide true insight into the etiology of psychiatric and substance use disorders

Psychiatric Genetics Thomas G. Schulze, Francis J. McMahon, 2018 *Psychiatric Genetics A Primer for Clinical and Basic Scientists* offers a straightforward introduction to the essentials of psychiatric genetics covering basic epidemiology recruitment for human studies phenotyping strategies formal genetic and molecular genetic studies statistical genetics bioinformatics and genomics pharmacogenetics the most relevant animal models and biobanking Each chapter begins with a list of take home points that summarizes content followed by a brief overview of current knowledge and suggestions for further reading

Psychiatric Genetics Michael Arribas-Ayllon, Andrew Bartlett, Jamie Lewis, 2019-02-13 *Psychiatric genetics* has become Big Biology This may come as a surprising development to those familiar with its

controversial history From eugenic origins and contentious twin studies to a global network of laboratories employing high throughput genetic and genomic technologies biological research on psychiatric disorders has become an international multidisciplinary assemblage of massive data resources How did psychiatric genetics achieve this scale How is it socially and epistemically organized And how do scientists experience this politics of scale **Psychiatric Genetics From Hereditary Madness to Big Biology** develops a sociological approach of exploring the origins of psychiatric genetics by tracing several distinct styles of scientific reasoning that coalesced at the beginning of the twentieth century These styles of reasoning reveal among other things a range of practices that maintain an extraordinary stability in the face of radical criticism internal tensions and scientific disappointments The book draws on a variety of methods and materials to explore these claims Combining genealogical analysis of historical literature rhetorical analysis of scientific review articles interviews with scientists ethnographic observations of laboratory practices and international conferences this book offers a comprehensive and detailed exploration of both local and global changes in the field of psychiatric genetics **Psychiatric Genomics** Evangelia Eirini Tsermpini, Martin Alda, George P. Patrinos, 2022-03-18 Selected for Doody's Core Titles 2024 in Clinical Genetics **Psychiatric Genomics** presents and synthesizes available knowledge in the field of psychiatric genomics offering methodologies to advance new research and aid clinical translation After providing an introduction to genomics and psychiatry international experts discuss the genomic basis of schizophrenia bipolar disorder depression personality disorders anxiety disorders addictions eating disorders and sleep disorders among other disorders In addition recommendations for next steps in clinical implementation and drug discovery are discussed in depth with chapters dedicated to pharmacogenomics and antipsychotics antidepressants and mood stabilizers adverse drug reactions implementation of pharmacogenomics in psychiatric clinics and ethical issues Finally methods sections provide a solid grounding in research approaches and computational analytics from using animal models in psychiatric genomics and accessing biobanks to employing computational analysis genome wide association studies GWAS brain pathophysiology and endophenotypes in psychiatric research Thoroughly examines the genetic mechanisms underlying a broad range of psychiatric disorders Offers genomic methodologies and analytical approaches supporting new research and clinical translation including personalized diagnosis and treatment models Features chapter contributions from international leaders in the field **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

Handbook of Psychiatric Genetics Kenneth Blum, Ernest P. Noble, 1996-10-29 Psychiatric genetics is an exciting new discipline that explores how our minds and behavior are influenced by our genes Increased interest in this area of medical genetics has been sparked by advances in molecular genetic techniques the genome project the neurosciences the role of genes in somatic diseases and the linking of specific genes with complex mental disorders This Handbook is the definitive

resource on this complex and sometimes controversial new field Psychiatric Genetics Jordan W. Smoller, Beth Rosen Sheidley, Ming T. Tsuang, 2009-02-20 As more patients seek information about family risks of psychiatric illness an interest likely to increase as gene identification studies are publicized most psychiatrists agree it is their role to discuss these issues but admit they are ill prepared to do so Psychiatric Genetics addresses that need as the first book to focus on clinical applications of genetics in psychiatry It covers issues involved in genetic counseling the interpretation of familial and genetic information for clinical use information regarding risks associated with specific psychiatric disorders risk benefit considerations related to medication use during pregnancy and the ethical and social implications of psychiatric genetic knowledge and research including the prospects for genetic testing While other books have been written for the genetics community this volume is addressed to practitioners a clinically relevant resource that can help them understand the often bewildering flood of information about genetics information difficult to interpret let alone integrate into practice and enable them to respond to patients requests to predict the risk of recurrence of psychiatric illness or provide information about reproductive and pregnancy related issues Experts from psychiatry genetic epidemiology molecular genetics genetic counseling cognitive psychology and ethics focus on issues that have received little attention elsewhere yet are of increasing importance to clinicians Written at a level that assumes no particular expertise in genetics the book features these immediately applicable benefits It offers a framework for understanding and critically evaluating the psychiatric genetic research literature enabling clinicians to better understand the meaning and limitations of genetic discoveries when patients raise questions about media reports It provides a resource for clinicians who would like more information about the role and content of genetic counseling outlining a typical counseling session while demonstrating how risks are estimated and discussed It summarizes genetic aspects of major psychiatric conditions from childhood onset disorders through psychotic mood and anxiety disorders to dementia as well as neuropsychiatric manifestations of other genetic disorders It alerts clinicians to risk benefit considerations related to medication use during pregnancy It covers the ethical legal and social implications of genetic research and counseling illustrating the dilemmas that arise with new advances Whether used as a clinical guide reference or ancillary text this book sets the standard for the application of psychiatric genetic knowledge in everyday practice Psychiatrists mental health clinicians and genetic counselors will find it an essential resource for all patient encounters in which genetic issues arise Psychiatric Genomics: Recent Advances and Clinical Implications, An Issue of Psychiatric Clinics of North America James J. Crowley, 2025-05-20 In this issue of Psychiatric Clinics guest editor Dr James J Crowley brings his considerable expertise to the topic of Psychiatric Genomics Recent Advances and Clinical Implications Top experts discuss recent advances and clinical implications of psychiatric genomics providing a better understanding of what causes psychiatric disorders and how to use that knowledge to improve treatment for patients Articles discuss a variety of disorders such as OCD autism PTSD and more Contains 17 relevant practice oriented topics including

psychiatric pharmacogenomics precision psychiatry obsessive compulsive disorder anorexia nervosa bipolar disorder schizophrenia suicidal behaviors substance use disorders and more Provides in depth clinical reviews on psychiatric genomics offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Toward a Philosophical Approach to Psychiatry Kenneth S. Kendler, Peter Zachar, 2019-10-15 *Toward a Philosophical Approach to Psychiatry* presents a collection of philosophical and historical papers authored by the psychiatrist Kenneth S Kendler Written primarily for psychiatrists psychologists and other scholars in the mental health professions as a body of work the papers offer an accessible distillation of many of the best current ideas from the philosophy of mind and the philosophy of science as applied to problems in psychiatric research and practice The continuous thread running through these papers is a looking behind the common assumptions that nourish unrealistic expectations about what can be discovered about the nature of psychiatric disorders in the short term without abandoning a commitment to scientific progress in the long run After a foreword by Robert Freedman the book commences with Peter Zachar s intellectual biography of Kendler followed by Kendler s own introductions providing an autobiographical and conceptual background for each paper In addition to Kendler s own writings this collection includes many important collaborative efforts including papers with John Campbell Carl Craver Kenneth Schaffner Erik Engstrom Rodrigo Munoz George Murphy and Peter Zachar

Principles of Psychiatric Genetics John I. Nurnberger, Wade Berrettini, 2012-09-13 A comprehensive up to date resource providing information about genetic influences on disorders of behavior

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