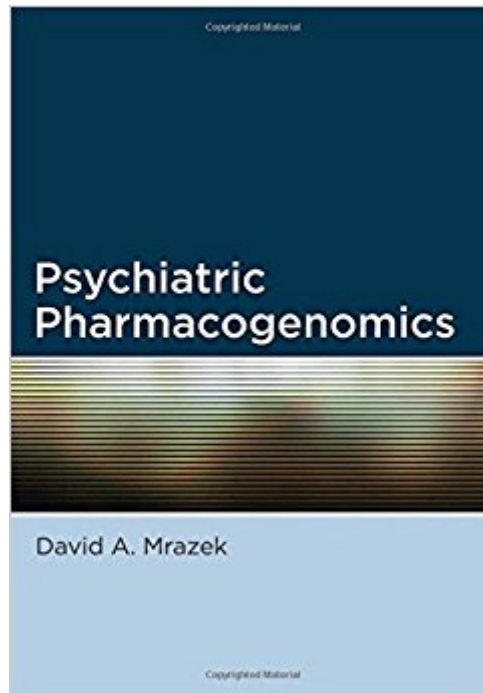




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# Psychiatric Pharmacogenomics



## Synopsis

Psychiatric Pharmacogenomics is a book written to help clinicians to use pharmacogenomic testing to improve the pharmacotherapy that they provide for their patients. It is designed to teach clinicians how to order pharmacogenomic tests and interpret the results. Clinical examples are used to underscore the specific indications for pharmacogenomic testing and to clarify the clinical usefulness of identifying atypical genotypes that result in problematic responses to medication. The first section of the book begins with a basic review of molecular genetics. Additionally, the book also includes an extensive glossary of technical terms associated with molecular genetics and pharmacogenomics. The clinical utility of pharmacogenomic testing is demonstrated throughout the book by describing the implications of genetic variations for the care of individual patients. The second section of the book is organized into fourteen chapters that each focus on the clinical implications of testing for specific genes for which variants have been associated with either therapeutic response or side effects of psychotropic medications. Each of these chapters is structured in the same manner and involves a description of the gene and its significant variants. Each chapter also includes one or more clinical vignettes. The third section of the book discusses the clinical usefulness of pharmacogenomic testing, ethical issues associated with pharmacogenomic testing, and provides predictions for the future development of more sophisticated pharmacogenomic testing.

## Book Information

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## Customer Reviews

"Psychiatric Pharmacogenomics, authored by David A. Mrazek, M.D., F.R.C. Psych., is the most authoritative book in the field of psychiatric genetics produced in the XXI Century. This text is not only an ideal tool for the busy clinician, but also offers the knowledge required by educators and investigators in the field of psychiatry pharmacogenomics at large".--Pedro Ruiz, MD, President, American Psychiatric Association (2006-2007); President Elect, World Psychiatric Association (2008-2011); and Professor of Psychiatry and Vice Chair for Education, Department of Psychiatry and Behavioral Sciences, University of Texas Medical School at Houston, Texas

In his book on psychiatric pharmacogenomics, Dr. Mrazek distills his scientific wisdom with clinical insights, to produce a unique guide to the theory and practice of this nascent specialty. He takes us on a journey of discovery, from the initial perplexing observations that different patients respond differently to the same medication in the same dose, to our understanding that this differential responsiveness could often be due to common genetic variation...This is a timely and hugely important book, pulling together the strands of psychiatric pharmacogenomics in an accessible way that provides clear guidance to clinicians, and is also an invaluable review of contemporaneous research for scientists working in the field."--David H. Skuse, MD, Behavioral and Brain Sciences Unit, Institute of Child Health, London, UK

This textbook - a pioneer in this field - offers a useful and actual overview on pharmacogenetic testing in psychiatry and is especially dedicated to clinicians and practicing psychiatrists rather than scientists working in the field of pharmacogenomics."--Julia Kirchheiner, MD, Professor of Clinical Pharmacology, University of Ulm, Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm, Germany

This remarkable volume should be read by all those who regularly prescribe psychotropic medication and more generally by those interested in how rapid scientific advances in molecular genomics and in the study of psychopathology together have led to major new resources for the treatment of mental illness. Dr. Mrazek's text is the first to comprehensively address psychiatric pharmacogenomics. The book is superbly written. This book is a rare combination of superb scientific writing, thoughtful clinical reflection, and profound understanding of this rapidly advancing field and should be read by all those concerned about the effects of mental illness in families. --William R. Beardslee, MD, Director, Baer Prevention Initiatives and Chairman Emeritus, Department of Psychiatry, Children's Hospital Boston, Gardner/Monks Professor of Child Psychiatry, Harvard Medical School, Boston, MA

This is an exciting book on the use of genetic testing for predicting adverse effects of, as well as response to, psychopharmacologic agents. The author, a pioneer in pharmacogenomics, has written an extremely informative book for clinicians and researchers. It is a very welcome addition to the psychiatric literature...This is a superb book on a very useful topic in clinical psychiatry. All

psychiatrists need to be versed in the wisdom this book provides. " --Doody's 2010 PROSE Award Honorable Mention recipient, Biological Sciences "It would quite useful as a reference text to be utilized when a patient presents with a history of side effects from low doses of medications or nonresponse to medication. I hope that Dr Mrazek will have some mechanism to provide updates as this field advances." -- Psychiatrist.com

David A. Mrazek, M.D., F.R.C.Psych. Chair of Psychiatry and Psychology, Mayo Clinic Professor of Psychiatry and Pediatrics Mayo Clinic College of Medicine Rochester, Minnesota

This is an outstanding book that is extremely useful to the clinician and to the academic. I use it frequently related to patient care and I recommend it to advanced students, residents and fellows. Certainly, it would be a great basis for a seminar on the topic.

in fact this title tells everything inside the book, it's about cytochromes and how this works in nowadays psychopharmacology and how it'll be important for the future. In our daily practice helps a lot !

The challenge with this domain is that the science is evolving so rapidly, that any snapshot at a point-in-time quickly becomes obsolete. However, the author does cover some of the basics of the CYP genes, as well as transporters. I would recommend this book to the clinician who is not heavily involved in pharmacogenomic research in this field - it provides a great introduction for its intended audience. If you want to remain current with the research, journal publications are the only way to go. I recommend 'Molecular Psychiatry', published by Nature, as well as a number of other publications. For example, as of the time of writing this review, there is early, compelling evidence that an allelic variant of the Neuropeptide S receptor is correlated with increased arousal and anxiety, and is tightly associated with panic disorder in humans.

This is the seminal volume in an important field that is bringing individualized medicine to the practice of psychiatry. I keep this book on my desk and not on my bookshelf, because I find myself frequently referring to it during the course of my clinical consultations. The book provides a practical review of molecular genetics and is therefore appealing to a wide audience interested in genomic medicine. The book clearly defines how current pharmacogenomic testing can help in making clinical decisions as well as the limitations of testing. The book also provides a summary of the

relevant literature and should be a standard reference for all physicians who prescribe psychotropic agents.

As a psychiatric nurse practitioner who uses genomic testing for my patients I highly encourage the purchase of this book. The clear easily understood presentation of information will help any APRN understand the information available from genomic testing of the CYP450 system to help them better medicate their patients. This is a winner!!!

I ordered this book after hearing a lecture by Dr. Mrazek on Audio-Digest, a medical continuing education program. This book is very clear, arranged to be practical for both clinicians and researchers, and explains a new approach to selection of psychoactive medications based on the individual patient genomic profiles that completion of the genome project has made possible. The field is still emerging, but the information in this volume is immediately and vitally useful.

Psychiatric Pharmacogenomics should be a part of any clinician's library who is prescribing psychotropic medication. It reads easily and is a useful resource to anyone who just wants an exposure to the genetics of pharmacology as well as someone who is interested in pharmacogenomic research.

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