Essentials Of Pharmacogenomics A Textbook Of Personalized Medicine

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Pharmacogenomics testing: Mayo Clinic Radio*Essentials Of Pharmacogenomics A Textbook*

This book is written to serve as a principal textbook for introductory pharmacogenomics course, emphasizing pedagogy along with applications in a way useful for students along with professionals needing an accessible resource. The text covers each of the important areas of pharmacogenomics - fundamental principles, relevant technologies, clinical applications, and societal issues.

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Essentials Of Phar macogenomics A Textbook Of Personalized Medicine The next section discusses the legal, ethical, and social implications of pharmacogenomics. The second half of the book details many of the main therapeutic areas, including oncologic drugs, cardiovascular drugs, statins, drug-induced long QT syndrome, diabetes drugs, respiratory drugs,

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Essentials Of Pharmacogenomics A Textbook Of Personalized Medicine Author: www.vrcworks.net-2020-10-22T00:00:00+00:01 Subject: Essentials Of Pharmacogenomics A Textbook Of Personalized Medicine Keywords: essentials, of, pharmacogenomics, a, textbook, of, personalized, medicine Created Date: 10/22/2020 6:22:36 AM

The study of pharmacogenetics and pharmacogenomics focuses on how our genes and complex gene systems influence our response to drugs. Recent progress in clinical therapeutics has led to the discovery of new biomarkers that make it technically easier to identify groups of patients which are more or less likely to respond to individual therapies. The aim is to improve personalised medicine – not simply to prescribe the right medicine, but to deliver the right drug at the right dose at the right time. This textbook brings together leading experts to discuss the latest information on how human genetics impacts drug response phenotypes. It presents not only the basic principles of pharmacogenetics, but also clinically valuable examples that cover a broad range of specialties and therapeutic areas. This textbook is an invaluable introduction to pharmacogenetics and pharmacogenomics for health care professionals, medical students, pharmacy students, graduate students and researchers in the biosciences.

The new science of pharmacogenomics aims to understand how an individual's genetic composition affects his/her response to a specific drug or class of drugs. By studying such characteristics as drug metabolizing enzymes, drug transporter activity, and receptor sensitivity, a pharmacist is better able to prescribe the right drug the first time.If you are pharmacist, resident, or student curious about this new field, start withConcepts in Pharmacogenomics. In this practical guide, you will find an overview of the science behind pharmacogenomics, followed by detailed chapters related to its clinical application and implementation.Features include: case studies in each chapter clinical pearls illustrations of key concepts figures, diagrams, and flow charts for visual learners key points summarized.

A COMPLETE INTRODUCTORY TEXT TO THE FIELD OF PHARMACOGENOMICS The only pharmacogenomics resource to feature a global author team comprised of PharmDs, MDs, PhDs and social scientists, Pharmacogenomics offers an essential, highly accessible survey of this dynamic discipline. You will find thorough coverage of all need-to-know topics, from individual molecules to systemic diseases, plus an examination of the latest technologies that are constantly reshaping the field. Pharmacogenomics is cohesively organized into two sections, the first of which reviews basic aspects of pharmacogenomics, including ethics, regulatory, science, and drug metabolism, along with a "mini" course in molecular genetics and testing. The second section highlights the practical application of pharmacogenomics in cardiovascular medicine, immunology, neurology, and other specialties. FEATURES Important overview of general pharmacogenomics and pharmacogenetics concepts, including genetic variation in signal transduction and targets, plus a review of the genetic concepts of pharmacogenomics Discussion of regulatory considerations in pharmacogenomics Focus on the role of health care professionals along with a review of related privacy issues, as well as broader ethical, legal, and social considerations In-depth chapters on drug metabolism and transporters Practical, step-by-step guidance on public access to pharmacogenomic testing and patient counseling Up-to-date coverage of non-genetic influences on pharmacogenomics Emphasis on gene-drug interactions Numerous tables and figures Chapter-ending references Concise learning objectives at the beginning of each chapter Case studies to familiarize you with the clinical relevance of pharmacogenomics in each specialty

This work represents the first comprehensive publication in the innovative field of pharmacogenomics, a field which is set to revolutionize pharmaceutical research. In addition to renowned editors, the list of contributors is a "who-is-who" in the field. Broad coverage of all aspects of pharmacogenomics with a full presentation of applications to disease conditions is featured. Anyone involved in pharmaceutical research and drug development needs this book to keep up with this new and revolutionary approach

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.

Genomic and Personalized Medicine, Second Edition – winner of a 2013 Highly Commended BMA Medical Book Award for Medicine – is a major discussion of the structure, history, and applications of the field, as it emerges from the campus and lab into clinical action. As with the first edition, leading experts review the development of the new science, the current opportunities for genome-based analysis in healthcare, and the potential of genomic medicine in future healthcare. The inclusion of the latest information on diagnostic testing, population screening, disease susceptability, and pharmacogenomics makes this work an ideal companion for the many stakeholders of genomic and personalized medicine. With advancing knowledge of the genome across and outside protein-coding regions of DNA, new comprehension of genomic variation and frequencies across populations, the elucidation of advanced strategic approaches to genomic study, and above all in the elaboration of next-generation sequencing, genomic medicine has begun to achieve the much-vaunted transformative health outcomes of the Human Genome Project, almost a decade after its official completion in April 2003. Highly Commended 2013 BMA Medical Book Award for Medicine More than 100 chapters, from leading researchers, review the many impacts of genomic discoveries in clinical action, including 63 chapters new to this edition Discusses state-of-the-art genome technologies, including population screening, novel diagnostics, and gene-based therapeutics Wide and inclusive discussion encompasses the formidable ethical, legal, regulatory and social challenges related to the evolving practice of genomic medicine Clearly and beautifully illustrated with 280 color figures, and many thousands of references for further reading and deeper analysis

Pharmacogenomics: Challenges and Opportunities in Therapeutic Implementation, Second Edition, provides comprehensive coverage of the challenges and opportunities facing the therapeutic implications of pharmacogenomics from academic, regulatory, pharmaceutical, socio-ethical and economic perspectives. While emphasis is on the limitations in moving the science into drug development and direct therapeutic applications, this book also focuses on clinical areas with successful applications and important initiatives that have the ability to further advance the discipline. New chapters cover important topics such as pharmacogenomic data technologies, clinical testing strategies, cost-effectiveness, and pharmacogenomic education and practice guidelines. The importance of ethnicity is also discussed, which highlights phar,acogenomic diversity across Latin American populations. With chapters written by interdisciplinary experts and insights into the future direction of the field, this book is an indispensable resource for academic and industry scientists, graduate students and clinicians engaged in pharmacogenomics research and therapeutic implementation. Provides viewpoints that focus on the scientific and translational challenges and opportunities associated with advancing the field of pharmacogenomics Highlights progress in both the research and clinical areas of pharmacogenomics, as well as relevant implementation experience, challenges, and perspectives on direct-to-consumer genetic testing Includes, where applicable, discussion points, review questions, and cases for self-assessment purposes and to facilitate in-depth discussion

Pharmacogenomics offers the opportunity for clinicians to dramatically improve the health outcomes of millions of patients receiving drug therapy. However, this opportunity is tempered by the challenge of learning the seemingly limitless amount of genetic information assembled during the past decade, with new knowledge developing rapidly. ACCP has developed this textbook to assist clinicians in meeting this challenge. The enhanced second edition, written by leaders in pharmacogenomics from different practice areas, disciplines, and research environments, combines the basics of pharmacogenomics with disease-specific applications to give students and practitioners a solid foundation for understanding the basic science of pharmacogenomics and the skills for integrating pharmacogenomics into daily clinical practice.

Advances in the technology used in personalized medicine and increased applications for clinical use have created a need for this expansion and revision of Kewal K. Jain’s Textbook of Personalized Medicine. As the first definitive work on this topic, this book reviews the fundamentals and development of personalized medicine and subsequent adoptions of the concepts by the biopharmaceutical industry and the medical profession. It also discusses examples of applications in key therapeutic areas, as well as ethical and regulatory issues, providing a concise and comprehensive source of reference for those involved in healthcare management, planning and politics. Algorithms are included as a guide to those involved in the management of important diseases where decision-making is involved due to the multiple choices available. Textbook of Personalized Medicine, Second Edition will serve as a convenient source of information for physicians, scientists, decision makers in the biopharmaceutical and healthcare industries and interested members of the public.

An invaluable resource to the rapidly emerging field of pharmacogenomics—complete with case studies, clinical pearls, and treatment recommendations The aim of pharmacogenomics is to improve personalized medicine by taking into account how genes affect an individual’s tolerability and response to drugs. Approaching pharmacogenomics from the current clinical, scientific, and implementation perspectives, this guide serves as an invaluable evidence-based resource to the subject. Reflecting the shift from genetics to genomics in the pharmaceutical sphere, the book covers pharmacogenomics fundamentals; genotyping tests and evidence; clinical implementation; ethical, legal, and social issues; and more. You’ll also find illuminating case scenarios, clinical pearls, and evidence-based recommendations for treatments and alternatives based on CPIC, PharmGKB, and FDA guidelines.

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