

Concepts In Pharmacogenomics Zdanowicz Concepts

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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 with Concepts 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.

Now is the time to get up to speed on this exciting field. "Concepts in Pharmacogenomics "provides pharmacists, residents, fellows, and students, with a practical guide for understanding the fundamentals of pharmacogenomics and its applications to cardiovascular disease, respiratory disease, and other practice fields.

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 with Concepts 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.

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.

This introductory text explains both the basic science and the applications of biotechnology-derived pharmaceuticals, with special emphasis on their clinical use. It serves as a complete one-stop source for undergraduate/graduate pharmacists, pharmaceutical science students, and for those in the pharmaceutical industry. The Fourth Edition will completely update the previous edition, and will also include additional coverage on the newer approaches such as oligonucleotides, siRNA, gene therapy and nanotech.

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

According to the authors, a drug-induced disease as an unintended effect of a drug, which results in mortality or morbidity with symptoms sufficient to prompt a patient to seek medical attention and/or require hospitalization. Since the first edition of this book was published in 2005, numerous drugs have been withdrawn from the market in the United States as a result of morbidity and/or mortality associated with drug-induced diseases. Despite best efforts to assure that all drugs are safe and effective, millions of patients each year develop drug-induced diseases. Every time a patient presents with a new disease or an exacerbation of an existing condition, someone needs to ask, "Could this be drug-related? Now in its second edition, this popular and essential comprehensive resource provides a detailed analysis of how to identify, prevent, and manage drug-induced diseases. Edited by James E. Tisdale and Douglas A. Miller, with contributions from experts distinguished in their respective specialties, Drug-Induced Diseases is organized logically and is easy to use for pharmacists, physicians, nurses, and pharmacy students alike. Inside you'll find: Chapters dedicated to each disease state. In-depth tables throughout each chapter. A new section on Drug-Induced dermatologic diseases. New drugs implicated as the cause of specific disease(s). The inclusion of the Levels of Evidence classification scheme for identifying drug-induced diseases. And much more.

“Frontiers in Anti-Cancer Drug Discovery” is an Ebook series devoted to publishing the latest and the most important advances in Anti-Cancer drug design and discovery. Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The Ebook series should prove to be of interest to all pharmaceutical scientists involved in research in Anti-Cancer drug design and discovery. Each volume is devoted to the major advances in Anti-Cancer drug design and discovery. The Ebook series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. The fifth volume of the series features chapters on the following topics: -Nutraceuticals and natural food products for cancer treatment -Pharmacogenomics in Anti-cancer treatment -Cancer stem cells -Potassium channel targeting for brain tumor treatment -Sorafenib in the management of hepatocellular carcinoma ...and more.

The field of pharmacogenomics offers new and unique opportunities to improve the benefit-risk ratio of medicines. As the field continues to evolve and grow, it will become increasingly difficult to practice contemporary pharmacy and provide satisfactory pharmaceutical care without some basic knowledge of genetics and genomics. This concise resource provides both students and practitioners with an understanding of the fundamental principles of human genomics and genetics. Student Pharmacists and practicing pharmacists will be able to apply this knowledge base to today’s challenges in optimizing drug therapy and patient care. Key Features: Concise, easy to read format Key genetic concepts Learning outcomes and end of chapter questions Pharmacogenetic case studies Glossary of key terms

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