

# Cardiovascular Pharmacogenetics

Editor  
Martin R. Wilkins



Springer

# Cardiovascular Pharmacogenetics

**Joseph T. DiPiro, Gary C. Yee, L. Michael  
Posey**



## **Cardiovascular Pharmacogenetics:**

**Cardiovascular Pharmacogenetics** Martin R. Wilkins, 2003-12-02 The Human Genome Project was sold to the general public largely on the basis that a complete picture of the structure of human DNA would lead to new and better medicines. These medicines would be better because they would be tailored to individual patients maximising the chances of a therapeutic response and minimising the risks of an adverse event. Taking the idea further pundits have predicted that the time will come when we could carry our DNA on a card which could be read rapidly and enable the physician to choose the best drug. This is the future. This is pharmacogenetics. When the draft human DNA sequence was announced and scientists were asked how this would help drug development the example most frequently given was the debrisoquine model where poor metabolisers of this hypotensive agent are exposed to higher plasma levels from a standard dose and at risk of collapse from excessive hypotension. This observation was made over 20 years ago and predated designs to sequence the human genome. Nonetheless it raised awareness of variation in drug metabolism and was correctly assigned to genetic polymorphisms affecting CYP2D6. Together with the discovery of pseudocholinesterase deficiency it marked the birth of pharmacogenetics. The debrisoquine example is an interesting one and worthy of further analysis. *Pharmacogenomics* Yui-Wing Francis Lam, Stuart R. Scott, 2018-11-27 *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 pharmacogenomic 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. **Applying Pharmacogenomics in Therapeutics** Xiaodong Feng, Hong-Guang Xie, 2016-01-06 Recent advances in high-throughput gene sequencing and other omics biotechnologies have served as a springboard for the field of pharmacogenomics. Pharmacogenomics is now generally accepted as the major determinant of variable drug safety, efficacy and cost.

effectiveness Therefore widespread use of pharmacogenomics for patient care has become a

**Principles and Practice of Clinical Cardiovascular Genetics** Dhavendra Kumar,Perry Elliott,2010 Consisting of contributions from experts in all specialties of cardiovascular genetics and applied clinical cardiology Principles and Practice of Clinical Cardiovascular Genetics serves as the comprehensive volume for any clinician or resident in cardiology and genetics Each chapter provides a detailed and comprehensive account on the molecular genetics and clinical practice related to specific disorders or groups of disorders including Marfan syndrome thoracic and abdominal aortic aneurysms hypertrophic dilated and restrictive cardiomyopathies and Arrhythmogenic right ventricular cardiomyopathy as well as many others All sections comprehensively address cardiovascular genetic disorders beginning with an introduction and including separate sections on the disease s basic biological aspects specific genetic mechanisms or issues clinical aspects genetic management e g genetic diagnosis risk assessment genetic counseling genetic testing and clinical management issues The final section exclusively addresses the management of cardiovascular genetic disorders specifically considering stem cell therapy genetic counseling pharmacogenomics and the social and ethical issues surrounding disease treatment

**Cardiology** Kanu Chatterjee,2012-08-31 This two volume set presents recent advances in the knowledge and technology related to the field of cardiology Beginning with a basic introduction the text continues with a step by step approach through the subject covering topics such as cardiovascular pharmacology electrophysiology coronary heart diseases myocardial and pericardial disease and more With contributions from leading international experts and over 1500 colour photographs each chapter contains additional comments and guidelines from reputed international bodies The book is accompanied by a DVD ROM containing high quality video footage of echocardiography

**Issues in Cardiology: 2013 Edition** ,2013-05-01 Issues in Cardiology 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Cardiopulmonary Rehabilitation and Prevention The editors have built Issues in Cardiology 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Cardiopulmonary Rehabilitation and Prevention in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Cardiology 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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advances in pharmacotherapy Implantable cardiac devices and atrial fibrillation are discussed in depth Edited by internationally recognised Professor Kanu Chatterjee from the University of Iowa and the University of California San Francisco and Professor Phillip A Horwitz from the University of Iowa this comprehensive reference includes nearly 350 images and illustrations to enhance learning Key points Comprehensive guide presenting recent advances in cardiology Emphasis on pathophysiology and new diagnostic and therapeutic techniques In depth coverage of implantable cardiac devices and atrial fibrillation Edited by internationally recognised US experts Prof Kanu Chatterjee and Prof Phillip A Horwitz

Advancing Healthcare Through Personalized Medicine Priya Hays,2017-02-24 This innovative book provides a unique perspective on the biomedical and societal implications of personalized medicine and how it will help mitigate the healthcare crisis and rein in ever growing expenditure It introduces the reader to underlying concepts at the heart of personalized medicine pharmacogenomics targeted therapies and individualized diagnosis and treatment and shows how with the advent of genomic technologies clinicians will have the capability to predict and diagnose disease more efficiently Advocating a patient centred approach at the heart of care this introduction to personalized medicine the science behind it its economic effects its effects upon patients and its overall implications for society will be invaluable to clinicians to healthcare providers and to patients

**Pharmacogenomics An Introduction and Clinical Perspective** Joseph S. Bertino,2013  
Pharmacogenomics is comprehensive textbook detailing how genetic makeup affects a body s response to drugs

**Lexi-Comp's Pharmaco-genomics Handbook** Larisa M. Cavallari,Larisa M. Humma,Vicki L. Ellingrod,Jill M. Kolesar,2005 This Title Includes Introduction to Pharmacogenomics Introduction to Genetics Polymorphism monographs Definitions Glossary Cytochrome P450 Enzymes Substrates Inhibitors and Inducers Alphabetical Listing of Drugs by Generic and Brand Name Alphabetical Listing of Gene Polymorphisms Index of Polymorphisms and Drugs Potentially Affected

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pharmacogenetics The debrisoquine example is an interesting one and worthy of further analysis Pharmacogenomics: A Primer for Clinicians Jerika T. Lam, Mary A Gutierrez, 2020-12-22 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

Molecular Basis of Cardiovascular Disease Kenneth R. Chien, 2004 The 2nd Edition of this heralded companion to Braunwald's Heart Disease explores the molecular mechanisms of cardiology and the scientific advances that are changing the practice of cardiology today International experts discuss the role of genetics in cardiovascular disease the molecular basis of ischemic disease thrombosis and hypertension genetic mapping approaches to inherited disorders biologically targeted agents for hypertension and heart failure and much more Abundant figures and tables illustrate key concepts Addresses most common cardiovascular problems from a molecular standpoint Explores developing treatments for cardiovascular problems based on genetics Provides references to Braunwald's Heart Disease 6th Edition Examines today's cutting edge advances in molecular cardiology and the future of gene therapy Examines the implications of cellular cholesterol metabolism in health and disease Delivers up to date information on understanding the origin of inherited disease

**Pharmacotherapy: A Pathophysiologic Approach, Eleventh Edition** Joseph T. DiPiro, Gary C. Yee, L. Michael Posey, 2020-07-03 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product 25 additional chapters available online The classic guide to driving optimal patient outcomes using evidence based medication therapies updated with the latest advances and guidelines Presented in full color Pharmacotherapy A Pathophysiologic Approach 11th Edition helps you deliver the highest quality patient care through evidence based medication therapy derived from sound pharmacotherapeutic principles It takes you beyond drug indications and dosages showing how to properly select administer and monitor drugs everything you need to provide safe effective drug therapy across all therapeutic categories With all new monitoring tables and authoritative content from 300 expert contributors this new edition has been fully updated to reflect the latest evidence based information and recommendations You'll find Key Concepts at the beginning of each chapter Clinical Presentation tables that summarize disease signs and symptoms and Clinical Controversies boxes that examine the complicated issues faced by students and clinicians in providing drug therapy Why Pharmacotherapy A Pathophysiologic Approach is perfect for

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**Hurst's the Heart, 12th Edition** Valentin Fuster,Robert A. O'Rourke,Richard Walsh,Philip Poole-Wilson,2007-11-21 An all inclusive overview of cardiology in a trusted landmark reference A Doody s Core Title ESSENTIAL PURCHASE 5 STAR DOODY S REVIEW This well organized textbook begins with a thoughtful discussion of cardiology s past and future It presents readers with the foundations of cardiovascular medicine and the basics of cardiovascular evaluation These initial chapters provide an excellent overview of topics in general cardiology from guidelines to newer diagnostic modalities such as MRI CT and PET Subsequently the book is organized to provide readers with a focused approach to other areas of cardiology from heart failure to electrophysiology and interventional cardiology This is a very useful reference that compiles a vast amount of information on the diagnosis and management of cardiovascular diseases in one book It continues to be one of best overall references in this field Doody s Review Service Developed by a team of internationally renowned editors and authors Hurst s The Heart is synonymous with the most comprehensive and current perspectives on treating the full range of heart problems Inside you ll get an incisive look at all the global advances in the diagnosis and management of cardiovascular disease including the translation of basic science research into clinical applications And integrated throughout are the latest treatment protocols ACC AHA and ESC treatment guidelines as well as quick reference tables and algorithms NEW to this Edition Stunning full color illustrations Information from the COURAGE trial covering the use and misuse of drug eluting stents Vital coverage of advances in the treatment of pulmonary hypertension and new information on hypertrophic cardiomyopathy Expert authored chapters on coronary blood flow stunning and hibernation race and ethnicity in cardiovascular disease and cardiovascular physiology Up to date information on the diagnosis and management of heart failure Latest guidelines for the management of atrial fibrillation New advances in curative catheter ablation of arrhythmias Increased number of international contributors Expanded chapters on epidemiology diagnosis and treatment of hypertension

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incorporating pharmacogenomics into health care The three sections of this book Research Issues Clinical Issues and Social Perspectives address key elements integral to a comprehensive discussion of this emerging field This groundbreaking text Examines new research strategies methodologies and ethical and social considerations of pharmacogenomics Addresses practical considerations of anticipated changes in education training oversight guidelines and protocols and continuing education requirements Provides analyses of the potential enormous impact of pharmacogenomics such as in the standard of care and treatment including perspectives from the fields of anthropology law ethics and economics

**Pharmacogenomics** Julio Licinio, Ma-Li Wong, 2002-04-29 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 *Handbook of Pharmaceutical Biotechnology* Shayne C. Gad, 2007-06-11 Describes the use of biotechnology to develop pharmaceuticals This book gives the professional a basic tool to facilitate the development of biotech medicines by bringing together a general overview of biotechnology used in the drug development process along with a compendium of regulations and validation methods

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