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Titolo	Pharmacogenomics : the search for individualized therapies / / edited by Julio Licinio and Ma-Li Wong
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Descrizione fisica	1 online resource (601 p.)
Altri autori (Persone)	LicinioJ WongMa-Li
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Soggetti	Pharmacogenomics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Pharmacogenomics The Search for Individualized Therapies; Acknowledgements; Preface; Contents; List of Contributors; Color Plates; 1 Introduction to Pharmacogenomics: Promises, Opportunities, and Limitations; Abstract; 1.1 Pharmacogenetics - The Roots of Pharmacogenomis; 1.2 Pharmacogenomics - It is Not just Pharmacogenetics; 1.2.1 Genetic Drug Response Profiles; 1.2.2 The Effect of Drugs on Gene Expression; 1.2.3 Pharmacogenomics in Drug Discovery and Drug Development; 1.3 Pharmacogenomics - Hopfe or Hype?; 1.4 References; 2 The Human Genome; Abstract; 2.1 Introduction

2.2 Expressed Sequence Tags (ESTs) and Computational Biology: The Foundation of Modern Genomic Science2.3 Microbial Genomics; 2.3.1 Computational Analysis of Whole Genomes; 2.3.2 Comparative Genome Analysis; 2.4 Genomic Differences that Affect the Outcome of Host-Pathogen Interactions: A Template for the Future of Whole-Genome-Based Pharmacologic Science; 2.5 More Lessons from the Human Genome; 2.5.1 Protein-Coding Genes; 2.5.2 Repeat Elements; 2.5.3 Genome Duplication; 2.5.4 Analysis of the Proteome; 2.5.5 DNA Variation
2.6 Biological Complexity and the Role of Medicine in the Future of the Genome2.7 Conclusion; 2.8 References; 3 Turning SNPs into Useful Markers of Drug Response; Abstract; 3.1 Introduction; 3.2 Two Approaches for Employing SNPs in Pharmacogenomics; 3.2.1 Candidate Gene Studies; 3.2.2 Whole Genome Linkage Disequilibrium Mapping Studies; 3.2.3 Comparison of Candidate Gene and Whole Genome LD Mapping; 3.3 How Many SNPs are Needed and What Kind are Useful for Pharmacogenomic Studies; 3.3.1 Location; 3.3.2 Frequency; 3.3.3 Haplotype Analysis
3.3.4 Number of SNPs Required for Whole Genome LD Mapping Studies3.4 Study Designs for Pharmacogenomic Analysis; 3.4.1 Challenges Unique to Pharmacogenomics; 3.4.2 Clinical Trials, Case-Control and Cohort Studies; 3.5 Analytical Issues is Pharmacogenomic Studies; 3.5.1 Effect of LD on Sample Size; 3.5.2 Multiple Hypothesis Testing; 3.5.3 Gene-Drug Interaction; 3.6 Development of Pharmacogenomic Markers; 3.7 Conclusion; 3.8 References; 4 Association Studies in Pharmacogenomics; Abstract; 4.1 Introduction; 4.2 Variability and ADR in Drug Response: Contribution of Genetic Factors
4.3 Multiple Inherited Genetic Factors Influence the Outcome of Drug Treatments4.3.1 Background; 4.3.2 Liver Metabolism Enzymes; 4.3.3 Transporters; 4.3.4 Plasma Binding Proteins; 4.3.5 Drug Targets; 4.4 Association Studies in Pharmacogenomics; 4.4.1 The Principles of Association Studies; 4.4.2 Study Design; 4.4.3 Direct Approach: A Hypothesis-Driven Strategy; 4.4.4 Indirect Approach: A Hypothesis-Generating Strategy; 4.5 SNP Assembly into Maps; 4.6 Strategies for Pharmacogenomic Association Studies; 4.6.1 Candidate Genes; 4.6.2 Genome-Wide Scan
4.7 Expected Benefits of Pharmacogenomics in Drug R & D

Sommario/riassunto

This is the very first comprehensive coverage of pharmacogenomics - a new discipline that will revolutionize health care.Pharmacogenomics leads to the understanding of the key genetic differences between individuals and will permit the individual tailoring of pharmacological treatments. Improved therapeutics can reach new levels by being able to differentiate between individuals according to their susceptibility to disease processes or adverse effects of medication. Pharmacogenomics also contributes to the discovery of new targets for drug development. Outstanding experts in the field p

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ISBN	9789811999680 9811999686
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (1257 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 996
Disciplina	354.81150006
Soggetti	Signal processing Big data Telecommunication Digital and Analog Signal Processing Big Data Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	A New Multi-Instance Learning Algorithm Integrated with TF-IDF for Entity Relation Extraction in Electronic Medical Records -- A Deep Learning Algorithm Using Feature Engineering to Adjust Attention Mechanisms and Neural Network for Cloud Security Detection -- The design and implementation of a ranging system based on the DSSS -- Application of Grey Approximation Ideal Solution Ranking Methods in optimal selection of satellite initial orbits.
Sommario/riassunto	This book collects selected papers from the 10th Conference on Signal and Information Processing, Networking and Computers held in Xi' Ning, China held in July, 2022. The book focuses on the current works of information theory, communication system, computer science, aerospace technologies and big data and other related technologies. People from both academia and industry of this field can contribute and find their interests from the book.