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Nota di contenuto	Chapter 1. Rethinking drug discovery and targeting after the genomic revolution -- Chapter 2. Living between sickness and health: Where is the human genome leading us? -- Chapter 3. Pharmacogenomics: Setting Newer Paradigms of Genetics in Therapy and Medicine -- Chapter 4. Bioinformatics and Pharmacogenomics: Tools to Understand and Accelerate Infectious Disease Control -- Chapter 5. Race and Ethnicity – Understanding Difference in the Genome Era -- Chapter 6. The Food Metabolome and Novel Dietary Biomarkers Associated with Diseases -- Chapter 7. Impact of genomics on drug discovery and clinical medicine -- Chapter 8. Genomics and drug transporters and application in drug discovery, delivery and development -- Chapter 9. Genomics and drug metabolizing enzymes its application in Drug delivery: Evaluating the influence of the microbiome -- Chapter 10. Essentials of Genomics in the Continuum of Translational Research -- Chapter 11. Charting a course for genomic medicine from base pair to bedside -- Chapter 12. Pharmacogenomics and pharmacogenomics: impact on therapeutic strategies -- Chapter 13. Clinical Pharmacogenomics and Personalized Medicine: New strategies to maximize drug efficacy and avoid adverse drug reaction -- Chapter 14. Epigenetic Patterns/Therapies associated with Genetic Disorders -- Chapter 15. Neurodegenerative disease conditions and genomic

treatment for better health -- Chapter 16. Recent Trends in -Omics based methods and techniques for Lung Diseases prevention -- Chapter 17. Impact of Genomics on Personalization of Breast Cancer Care -- Chapter 18. Pharmacogenomics: a new approach for preventing severe cutaneous adverse drug reactions.

Sommario/riassunto

This book evaluates trends arising in “-Omics” sciences in terms of their current and potential future application to therapeutic design and understanding of disease. Chapters consider the impact of pharmacogenomics and bioinformatics on drug development, as well as trends in genomics, as applied to understanding of neurodegenerative and lung disease, psychiatry and oncology. Following the genome studies released in early part of this century, the advent of the -Omics sciences (genomics and pharmacogenomics, proteomics, metabolomics, transcriptomics) has seen the expansion of a vast knowledgebase with utility in preventing and treating disease, and improving health for all. Bioinformatics and improved pharmacogenetic understanding forge a path for improved drug discovery and design methods accounting for differences in delivery and disposition across populations.