Molecular Epidemiology has taken advantage of the emergence of technological advances collectively identified as “-omics” (genomics, transcriptomics, proteomics, metabonomics) and their usage in epidemiological studies has heralded a revolution in the design implementation, and interpretation of studies on disease causation. Not the least, Molecular Epidemiology has brought together scientists of all disciplines to interact into very large, often multi-national networks, fostering consortia that have the size and power to address diseases as a global challenge.

This book captures these fascinating developments and provides an extended, forward-looking vision of the principles, practice and impact of Molecular Epidemiology.

Written and coordinated by world leaders in the field, the book covers, in a systematic way, the major conceptual advances, with a strong emphasis on study design and on how to incorporate biomarker studies into epidemiology practice. While providing a cornerstone for specialists, the book is also a teaching and training manual for public health, biology and medical students at the undergraduate, graduate, and post-graduate levels.

With its strong insistence on interdisciplinarity and its focus on translating complex concepts into information that can be shared across the borders of scientific disciplines, the book will be a door-opener for researchers whose work is being attracted by the potent magnet of Molecular Epidemiology.
Contents

Foreword
Preface
Unit 1. Contextual framework for molecular epidemiology
Chapter 1. Molecular epidemiology: Linking molecular scale insights to population impacts
Chapter 2. Ethical issues in molecular epidemiologic research
Unit 2. Biomarkers: practical aspects
Chapter 3. Biological sample collection, processing, storage and information management
Chapter 4. Physical/chemical/immunologic analytical methods
Chapter 5. Assessment of genetic damage in healthy and diseased tissue
Chapter 6. Basic principles and laboratory analysis of genetic variation
Chapter 7. Platforms for biomarker analysis using high-throughput approaches in genomics, transcriptomics, proteomics, metabolomics, and bioinformatics
Chapter 8. Measurement error in biomarkers: sources, assessment, and impact on studies
Unit 3. Assessing exposure to the environment
Chapter 9. Environmental and occupational toxicants
Chapter 10. Infectious agents
Chapter 11. Dietary intake and nutritional status
Chapter 12. Assessment of the hormonal milieu
Chapter 13. Evaluation of immune responses
Unit 4. Integration of biomarkers into epidemiology study designs
Chapter 14. Population-based study designs in molecular epidemiology
Chapter 15. Family-based designs
Chapter 16. Analysis of epidemiologic studies of genetic effects and gene-environment interactions
Chapter 17. Biomarkers in clinical medicine
Chapter 18. Combining molecular and genetic data from different sources
Unit 5. Application of biomarkers to disease
Chapter 19. Cancer
Chapter 20. Coronary heart disease
Chapter 21. Work-related lung diseases
Chapter 22. Neurodegenerative diseases
Chapter 23. Infectious diseases
Chapter 24. Obesity
Chapter 25. Disorders of reproduction
Chapter 26. Studies in children
Chapter 27. Future perspectives on molecular epidemiology
Authors’ list
Index

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