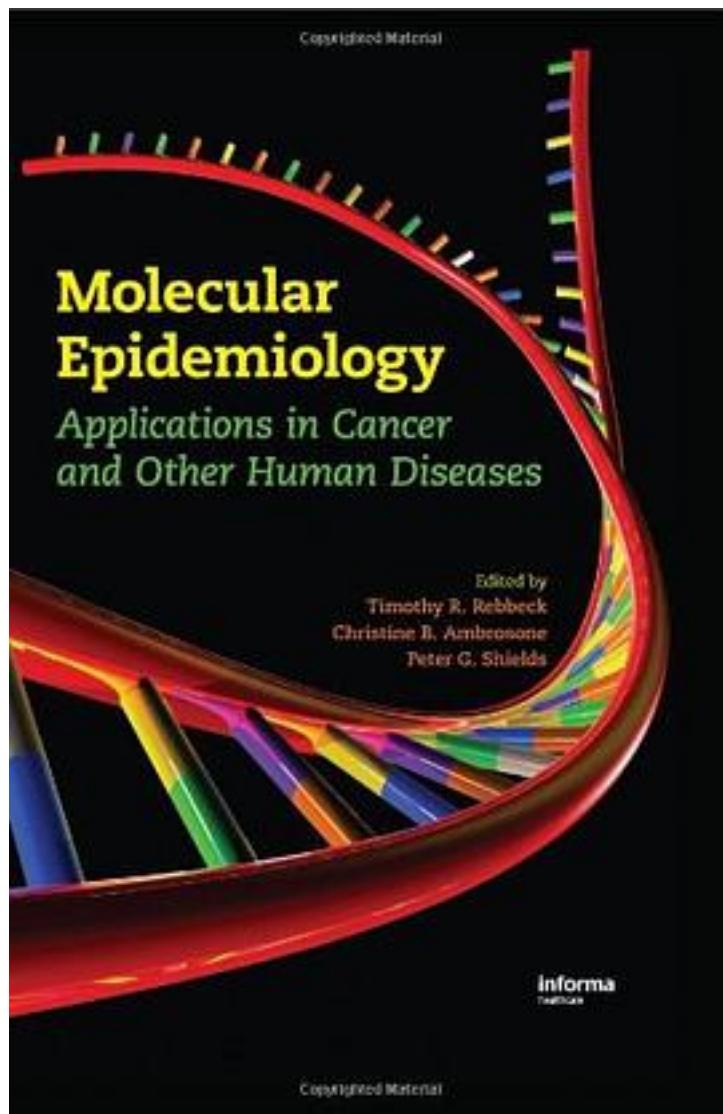


# Molecular Epidemiology



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This volume comprises the investigation of factors that may predict the response to treatment, outcome, and survival by exploring: \* design considerations in molecular epidemiology, including: case-only family-based approaches for evaluation of genetic susceptibility to exposure and addiction pharmacogenetics incorporation of biomarkers in clinical trials \* measurement issues in molecular epidemiology, including DNA biosampling methods principles for high-quality genotyping haplotypes biomarkers of exposure and effect exposure assessment \* methods of statistical inference used in molecular epidemiology, including gene-gene and gene-environment interaction analysis novel high-dimensional analysis approaches pathway-based analysis methods haplotype methods, dealing with race and ethnicity risk models a discussion of reporting and interpreting results \* A specific discussion and synopsis of these methods provides concrete examples drawn from primary research in cancer Covering design considerations, measurement issues, and methods of statistical inference, and filled with scientific tables, equations, and pictures, Molecular Epidemiology: Applications in Cancer and Other Human Diseases presents a solid, single-source foundation for conducting and interpreting molecular epidemiological studies.

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