Human Genome Epidemiology: Building the Evidence for Using Genetic Information to Improve Health and Prevent Disease

This second edition contains a fully updated look at the ways in which genetic factors in common diseases are studied.

The first edition of Human Genome Epidemiology, published in 2004, discussed how the epidemiologic approach provides an important scientific foundation for studying the continuum from gene discovery to the development, applications and evaluation of human genome information in improving health and preventing disease. Since that time, advances in human genomics have continued to occur at a breathtaking pace.

With contributions from leaders in the field from around the world, this new edition is a fully updated look at the ways in which genetic factors in common diseases are studied. Methodologic developments in collection, analysis and synthesis of data, as well as issues surrounding specific applications of human genomic information for medicine and public health are all discussed. In addition, the book focuses on practical applications of human genome variation in clinical practice and disease prevention.

Students, clinicians, public health professionals and policy makers will find the book a useful tool for understanding the rapidly evolving methods of the discovery and use of genetic information in medicine and public health in the 21st century.