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A Primer of Human Genetics is an introductory textbook designed to give students the foundation they need to understand and appreciate the extraordinary shifts in human genetics that have accompanied the arrival of genomics. The book lays out the key concepts of human evolution, quantitative genetics, and personalized medicine before describing the tools that are missing from most contemporary textbooks: genome-wide association studies, whole-genome resequencing, gene expression and epigenome profiling, and integrative genomics. The final section provides an up-to-date survey of specific findings in six major domains of human disease: immunological, metabolic, cardiovascular, cancer, neuropsychological, and aging disorders. After reading this textbook, not only will students be better equipped to read current literature, they will gain a sense of the impact that the revolution in genomics has had for our understanding of the human condition, as well as of the major trends in human genetics research. Students are assumed to have a core understanding of genetics such as would be obtained in a general genetics class. Each chapter is approximately 20 pages long, and organized under up to ten sub-headings, most of which incorporate an illustrative figure. Chapter summary points recap the key messages, and references point students to key reviews and contemporary highlights. Several of the chapters contain a single box, which provides extra material on topics such as "Consent and Responsible Conduct of Research" and "Methylation Analysis in Biology."--Publisher description.

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Human beings have astonishing genetic vulnerabilities. More than half of us will die from complex diseases that trace directly to those vulnerabilities, and the modern world we 've created places us at unprecedented risk from them. In It Takes a Genome, Greg Gibson posits a revolutionary new hypothesis: Our genome is out of equilibrium, both with itself and its environment. Simply put, our genes aren 't coping well with modern culture. Our bodies were never designed to subsist on fat and sugary foods; our immune systems weren 't designed for today 's clean, bland environments; our minds weren 't designed to process hard-edged, artificial electronic inputs from dawn 'til midnight. And that 's why so many of us suffer from chronic diseases that barely touched our ancestors. Gibson begins by revealing the stunningly complex ways in which multiple genes cooperate and interact to shape our bodies and influence our behaviors. Then, drawing on the very latest science, he explains the genetic " mismatches " that increasingly lead to cancer, diabetes, inflammatory and infectious diseases, AIDS, depression, and senility. He concludes with a look at the probable genetic variations in human psychology, sharing the evidence that traits like introversion and agreeableness are grounded in equally complex genetic interactions. It Takes A Genome demolishes

yesterday ' s stale debates over “ nature vs. nurture, ” introducing a new view that is far more intriguing, and far closer to the truth. See how broken genes cause cancer Meet the body ' s “ genetic repairmen ” —and understand what happens when they fail The growing price of the modern lifestyle Why one-third of all Westerners have obesity, Type 2 diabetes, or other signs of “ metabolic syndrome ” The Alzheimer ' s generation Why some of us are predisposed to dementia What ' s really normal: the deepest lessons of the human genome The remarkable diversity of physical and emotional “ normality ”

Restriction Landmark Genomic Scanning (RLGS) is a new multiplex method for simultaneous analysis of over 3,000 genome loci. Written by the inventor of RLGS, Yoshihide Hayashizaki, and his co-workers, this is the first manual on this method. RLGS is a powerful technique with enormous potential for biological (animal and plant sciences), and biomedical research. Yielding results much faster than conventional techniques, RLGS is particularly suited to the identification of the chromosomal location of the genes implicated in inherited diseases, and for the genetic disturbances present in cancerous tissue.

Genomic and Precision Medicine: Principles and Foundations presents state-of-the-art reviews and essential background knowledge on the human genome, and its biology and regulation, including a current understanding of a variety of areas within the genome sciences that cover sequencing, transcriptomics, proteomics, microbiomics, etc.), critical technologies, and informatics. This volume is an excellent foundation for readers to appreciate the content of the subsequent seven volumes. Presents a comprehensive and up-to-date volume on the basic aspects of the underlying science and technology for this field Written in an introductory style, including succinct commentary and key learning points to provide a primer for readers on essential aspects of this field Provides an up-to-date overview on the major technologies underlying genomic and personalized medicine as written by internationally recognized experts

Geneticist Eugene Harris presents us with the complete and up-to-date account of the evolution of the human genome.

A valuable addition to the personal libraries of entomologists, geneticists, and molecular biologists.

For a century, social scientists have avoided genetics like the plague. But in the past decade, a small but intrepid group of economists, political scientists, and sociologists have harnessed the genomics revolution to paint a more complete picture of human social life than ever before. The Genome Factor describes the latest astonishing discoveries being made at the scientific frontier where genomics and the social sciences intersect. The Genome Factor reveals that there are real genetic differences by racial ancestry--but ones that don't conform to what we call black, white, or Latino. Genes explain a significant share of who gets ahead in society and who does not, but instead of giving rise to a genotocracy, genes often act as engines of mobility that counter social disadvantage. An increasing number of us are marrying partners with similar education levels as ourselves, but genetically speaking, humans are mixing it up more than ever before with respect to mating and reproduction. These are just a few of the many findings presented in this illuminating and entertaining book, which also tackles controversial topics such as genetically personalized education and the future of reproduction in a world where more and more of us are taking advantage of cheap genotyping services like 23 and Me to find out what our genes may hold in store for ourselves and our children. The Genome Factor shows how genomics is transforming the social sciences--and how social scientists are integrating both nature and nurture into a unified, comprehensive understanding of human behavior at both the individual and society-wide levels. --

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