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that the human genome contains only 20,000 to 25,000 genes. This estimation, based on the sequence data, is substantially below previous predictions. The sequence data has led to the estimation that only about 1 percent of the human genome actually encodes functional proteins.

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designed to generate a resource that could be used for a broad range of biomedical studies. One such use is to look for the genetic variations that increase risk of specific diseases, such as cancer, or to look for the type of genetic mutations frequently seen in cancerous cells.

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Human genome, all of the approximately three billion base pairs of deoxyribonucleic acid (DNA) that make up the entire set of chromosomes of the human organism. The human genome includes the coding regions of DNA, which encode

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all the genes (between 20,000 and 25,000) of the human organism, as well as the noncoding regions of DNA, which do not encode any genes.

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focused on advances in genomics research. Building on our leadership role in the initial sequencing of the human genome, we collaborate with the world's scientific and medical communities to enhance genomic technologies that accelerate breakthroughs and improve lives.

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Significant advances in our knowledge of genetics were made during the twentieth century but in the most recent decades, genetic research has dramatically increased its impact throughout society. Genetic issues are

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now playing a large role in health and public policy, and new knowledge in this field will continue to have significant implications for individuals and society. Written for the non-majors human genetics course, Human Genetics, 3E will increase the genetics knowledge of students who are

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Why Do Genetics Matter to You? This book is a summary of "The Gene: An

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Intimate History, by Siddhartha Mukherjee. Siddhartha Mukherjee's book chronicles the fascinating history of discovery in classical genetics, molecular genetics, genetic engineering, and the human genome project. It shows: * How our genes and the environment define our identities

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and personalities; * How genetic engineering technologies can be used to manufacture drugs safely; and * How genetic diagnosis and gene therapies can be used to treat complex genetic diseases. Genetics is at the frontiers of science today, and its impact is often misunderstood. The

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public is often misled by science fiction and remains largely in the dark as to the actual consequences of advances in the biotechnology and genetic engineering industries. Studying genetics can help you understand the economic, social, and ethical implications of these technologies.

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The laws of inheritance were considered quite superficial until 1903, when the chromosome theory of heredity was established by Sutton

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and Boveri. The discovery of the double helix and the genetic code led to our understanding of gene structure and function. For the past quarter of a century, remarkable progress has been made in the characterization of the human genome in order to search for coherent views of genes. The unit

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of inheritance termed factor or gene, once upon a time thought to be a trivial an imaginary entity, is now perceived clearly as the precise unit of inheritance that has continually deluged us with amazement by its complex identity and behaviour, sometimes bypassing the university of

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Mendel's law. The aim of the fifth volume, entitled Genes and Genomes, is to cover the topics ranging from the structure of DNA itself to the structure of the complete genome, along with everything in between, encompassing 12 chapters. These chapters relate much of the information accumulated

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on the role of DNA in the organization of genes and genomes per se. Several distinguished scientists, all pre-eminent authorities in each field to share their expertise. Obviously, since the historical report on the double helix configuration in 1953, voluminous reports on the meteoric advances in

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genetics have been accumulated, and to cover every account in a single volume format would be a Herculean task. Therefore, only a few topics are chosen, which are of great interest to molecular geneticists. This volume is intended for advanced graduate students who would wish to keep

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Jennifer A. Doudna and Samuel H. Sternberg. This book tells the story of CRISPR and "gene-editing." CRISPR is a cutting-edge gene-editing technology that mimics what happens naturally in bacteria. It enables scientists to "play god" with plant or animal DNA, with unlimited power and

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peril. The technology of gene editing is the most important advance in our era. The possibility of forever altering the genetic composition of humankind is frightening. Yet we can't overlook the opportunities that may lead to inventions for cures of HIV, debilitating genetic diseases, and cancers, and

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end food shortages. The book will demystify this exciting area of science and inspire you to seek answers to tough moral and ethical questions on the use of this technology. Read this book and get involved in the debate on the moral and ethical issues on the use of this technology. This guide

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advance for humankind, the study of the human genome is of incalculable importance and something we should all understand. With this one book you will gain the insight necessary to recognize and appreciate the dramatic impact that genomic science is making, and will make, on the way we

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live.

This is the story of some of biology's most incredible discoveries. This book is a summary of "The Tangled Tree: A Radical New History of Life," by David Quammen. One of the central insights in Charles Darwin's theory of evolution

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was that life branched like a tree. Over a century later, scientists used DNA sequences to reexamine the history of life and found that the tree of life was tangled. Humans are likely descended from single-cell organisms which we didn't know existed fifty years ago. Genes don't just move vertically. They

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also pass laterally across species lines. Eight percent of the human genome arrived not through traditional inheritance, but sideways through viral infections. The Tangled Tree chronicles these discoveries through the lives of the researchers who made them. It explains how molecular

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studies of evolution have brought startling recognition about the tangled tree of life. Read this book to get a new understanding of evolution and the history of life. This guide includes:

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Prize-winning author of *The Emperor of All Maladies*—a fascinating history of the gene and —a magisterial account of how human minds have laboriously, ingeniously picked apart what makes us tick— (Elle). "Sid Mukherjee has the uncanny ability to bring together science, history, and the future in a

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way that is understandable and riveting, guiding us through both time and the mystery of life itself." —Ken Burns —Dr. Siddhartha Mukherjee dazzled readers with his Pulitzer Prize-winning *The Emperor of All Maladies* in 2010. That achievement was evidently just a warm-up for his

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virtuoso performance in *The Gene: An Intimate History*, in which he braids science, history, and memoir into an epic with all the range and biblical thunder of *Paradise Lost* (The New York Times). In this biography Mukherjee brings to life the quest to understand human heredity and its

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surprising influence on our lives, personalities, identities, fates, and choices. Mukherjee expresses abstract intellectual ideas through emotional stories [and] swaddles his medical rigor with rhapsodic tenderness, surprising vulnerability, and occasional flashes of pure poetry

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(The Washington Post). Throughout, the story of Mukherjee's own family—with its tragic and bewildering history of mental illness—reminds us of the questions that hang over our ability to translate the science of genetics from the laboratory to the real world. In riveting and dramatic prose, he

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describes the centuries of research and experimentation—from Aristotle and Pythagoras to Mendel and Darwin, from Boveri and Morgan to Crick, Watson and Franklin, all the way through the revolutionary twenty-first century innovators who mapped the human genome. □A fascinating and

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often sobering history of how humans came to understand the roles of genes in making us who we are—and what our manipulation of those genes might mean for our future— (Milwaukee Journal-Sentinel), The Gene is the revelatory and magisterial history of a scientific idea coming to life, the most

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crucial science of our time, intimately explained by a master. "The Gene is a book we all should read" (USA TODAY).

This second edition of a very successful text reflects the tremendous pace of human genetics

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research and the demands that it places on society to understand and absorb its basic implications. The human genome has now been officially mapped and the cloning of animals is becoming a commonplace scientific discussion on the evening news. Join authors Julia Richards and

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Scott Hawley as they examine the biological foundations of humanity, looking at the science behind the sensation and the current and potential impact of the study of the genome on our society. The Human Genome, Second Edition is ideal for students and non-professionals, but

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will also serve as a fitting guide for the novice geneticist by providing a scientific, humanistic, and ethical frame of reference for a more detailed study of genetics. New in this edition: · 60% new material, including data from the Human Genome Project and the latest genetics and ethics discussions ·

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Several new case studies and personal stories that bring the concepts of genetics and heredity to life · Simplified treatment of material for non-biology majors · New full-color art throughout the text · New co-author, Julia Richards, joins R. Scott Hawley in this revision

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