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Written by two eminent researchers, this account incorporates the documents that embody the record of gene cloning and provides an illuminating commentary on the social and scientific ramifications of DNA research This is the second edition of a highly successful textbook (over 50,000 copies sold) in which a

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highly illustrated, narrative text is combined with easy-to-use thoroughly reliable laboratory protocols. It contains a fully up-to-date collection of 12 rigorously tested and reliable lab experiments in molecular biology, developed at the internationally renowned Dolan DNA Learning Center of Cold Spring Harbor Laboratory, which culminate in the construction and cloning of a recombinant DNA molecule. Proven through more than 10 years of teaching at research and nonresearch colleges and universities, junior colleges, community

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colleges, and advanced biology programs in high school, this book has been successfully integrated into introductory biology, general biology, genetics, microbiology, cell biology, molecular genetics, and molecular biology courses. The first eight chapters have been completely revised, extensively rewritten, and updated. The new coverage extends to the completion of the draft sequence of the human genome and the enormous impact these and other sequence data are having on medicine, research, and our view of human evolution. All

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sections on the concepts and techniques of molecular biology have been updated to reflect the current state of laboratory research. The laboratory experiments cover basic techniques of gene isolation and analysis, honed by over 10 years of classroom use to be thoroughly reliable, even in the hands of teachers and students with no prior experience. Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare, while flow charts and icons make the protocols easy to follow. As in the first edition of this book, the laboratory

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course is completely supported by quality–assured products from the Carolina Biological Supply Company, from bulk reagents, to useable reagent systems, to single–use kits, thus satisfying a broad range of teaching applications.

Now completely up-to-date with the latest research advances, the Seventh Edition retains the distinctive character of earlier editions.

Twenty-two concise chapters, co-authored by six highly distinguished biologists, provide current, authoritative coverage of an exciting, fast-

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changing discipline.

In 1953 Watson and Crick discovered the double helical structure of DNA and Watson's personal account of the discovery, The Double Helix, was published in 1968. Genes, Girls and Gamow is also autobiographical, covering the period from when The Double Helix ends, in 1953, to a few years later, and ending with a Postscript bringing the story up to date. Here is Watson adjusting to new-found fame, carrying out tantalizing experiments on the role of RNA in biology, and falling in love. Thebook is enlivened with copies

of handwritten letters from the larger than life character George Gamow, who had made significant contributions to physics but became intrigued by genes, RNA and the elusive genetic code. This is a tale of heartbreak, scientific excitement and ambition, laced with travelogue and '50s atmosphere.

Invisible Frontiers

Universities and Industry

Recombinant DNA: Genes and Genomes

The Revolution in DNA Sequencing and the New Era of Personalized Medicine

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The Annotated and Illustrated Double Helix

An overview of recombinant DNA techniques and surveys advances in recombinant molecular genetics, experimental methods and their results.

Perfect for a single term on Molecular Biology and more accessible to beginning students in the field than its encyclopedic counterparts, Fundamental Molecular Biology provides a distillation of the essential concepts of molecular biology, and is supported by current examples, experimental evidence, an

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outstanding art program, multimedia support and a solid pedagogical framework. The text has been praised both for its balanced and solid coverage of traditional topics, and for its broad coverage of RNA structure and function, epigenetics and medical molecular biology.

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Updated to include new findings in gene editing, epigenetics, agricultural chemistry, as well as two new chapters on

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personal genomics and cancer research

What Mad Pursuit

A Passion for DNA

Avoid Boring People

Fundamental Molecular Biology, 2nd Edition

The Story of the Genetic Revolution

This work is concerned with biotechnical innovations in animal productivity. It is part of a series of biotechnology texts suitable for self-study or as the basis for in-house training schemes. It includes reference questions for students, key phrases, and a summary of objectives for

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each chapter.

In 2000, President Bill Clinton signaled the completion of the Human Genome Project at a cost in excess of \$2 billion. A decade later, the price for any of us to order our own personal genome sequence--a comprehensive map of the 3 billion letters in our DNA--is rapidly and inevitably dropping to just \$1,000. Dozens of men and women--scientists, entrepreneurs, celebrities, and patients--have already been sequenced, pioneers in a bold new era of personalized genomic medicine. The

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\$1,000 genome has long been considered the tipping point that would open the floodgates to this revolution. Do you have gene variants associated with Alzheimer's or diabetes, heart disease or cancer? Which drugs should you consider taking for various diseases, and at what dosage? In the years to come, doctors will likely be able to tackle all of these questions--and many more--by using a computer in their offices to call up your unique genome sequence, which will become as much a part of your medical record as your blood

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pressure.

Author Stephen Hall weaves together the scientific, social and political threads of this story - the fierce rivalry between labs, the fateful clash of egos within labs, the invasion of academia by commerce, the public fears about genetic engineering, the threat of government regulation, and the ultimate triumph of modern biology - to give us an outstanding tale of scientific research."--BOOK

JACKET.

Continuing the very successful first

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edition, this book reviews the most recent changes to the legal situation in Europe concerning genetically engineered food and labeling. Due to the extremely rapid developments in green biotechnology, all the chapters have been substantially revised and updated. Divided into three distinct parts, the text begins by covering applications and perspectives, including transgenic modification of production traits in farm animals, fermented food production and the production of food additives using

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filamentous fungi. The second section is devoted to legislation, while the final part examines methods of detection, such as DNA-based methods, and methods for detecting genetic engineering in composed and processed foods. From the reviews of the first edition: "This work promises to be a standard reference in the detection of genetically engineered food. I believe this work will find a valued place for any scientist, regulator or technical library that deals with biotechnology or detection of genetically engineered food organisms."

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—James J. Heinis, Journal of Agricultural
& Food Information

Principles and Applications of Recombinant
DNA

Principles and Techniques of Biochemistry
and Molecular Biology

ADN recombinant

DNA Science

Recombinant DNA

***Shane Crotty's biography of David Baltimore
details the life and work of one of the most
brilliant, powerful, and controversial
scientists of our time. Although only in his***

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early sixties, Baltimore has made major discoveries in molecular biology, established the prestigious Whitehead Institute at MIT, been president of Rockefeller University, won the Nobel Prize, and been vilified by detractors in one of the most scandalous and protracted investigations of scientific fraud ever. He is now president of Caltech and a leader in the search for an AIDS vaccine. Crotty not only tells the compelling story of this larger-than-life figure, he also treats the reader to a lucid account of the amazing revolution that has occurred in biology during the past forty years. Basing his

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narrative on many personal interviews, Crotty recounts the milestones of Baltimore's career: completing his Ph.D. at Rockefeller University in eighteen months, participating in the anti-Vietnam War movement, winning a Nobel Prize at age thirty-seven for the codiscovery of reverse transcriptase, and co-organizing the recombinant DNA/genetic engineering moratorium. Along the way, readers learn what viruses are and what they do, what cancer is and how it happens, the complexities of the AIDS problem, how genetic engineering works, and why making a vaccine is a complicated process. And, as Crotty

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considers Baltimore's public life, he retells the famous scientific fraud saga and Baltimore's vindication after a decade of character assassination. Crotty possesses the alchemical skill of converting technical scientific history into entertaining prose as he conveys Baltimore's huge ambitions, intensity, scientific genius, attitude toward science and politics, and Baltimore's own view about what happened in the "Baltimore Affair." Ahead of the Curve shows why with his complex personality, keen involvement in public issues, and wide-ranging interests David Baltimore has not only shaped the face

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of American science as we know it today, but has also become a presence in our culture. "Nobelist James D. Watson delves into his family history, exploring his ancestors' roots in Springfield, Illinois, and Chicago, and then focuses on his father James D. Watson, Sr., and his influence on Dr. Watson's success as an eminent scientist and as a writer. Contiguous people, such as Abraham Lincoln and Orson Welles, and events, such as the Leopold and Loeb "Crime of the Century" and 20th century developments in American politics and education, provide a framework for these explorations"--Provided

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by publisher.

The second edition explains the principles of recombinant DNA technology as well as other important techniques such as DNA sequencing, the polymerase chain reaction, and the production of monoclonal antibodies.

Evidence suggests that medical innovation is becoming increasingly dependent on interdisciplinary research and on the crossing of institutional boundaries. This volume focuses on the conditions governing the supply of new medical technologies and suggest that the boundaries between disciplines, institutions, and the private

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and public sectors have been redrawn and reshaped. Individual essays explore the nature, organization, and management of interdisciplinary R&D in medicine; the introduction into clinical practice of the laser, endoscopic innovations, cochlear implantation, cardiovascular imaging technologies, and synthetic insulin; the division of innovating labor in biotechnology; the government-industry-university interface; perspectives on industrial R&D management; and the growing intertwining of the public and proprietary in medical technology.

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***Molecular Biotechnology
Methods and Detection
A Short Course***

David Baltimore's Life in Science

Recombinant DNAMacmillan

Genes within cells - Primary genetic material -
Creating recombinant DNA molecules - Cloned
genes - Tumor viruses - Genetic diseaseses__

This best-selling undergraduate textbook provides
an introduction to key experimental techniques from
across the biosciences. It uniquely integrates the
theories and practices that drive the fields of biology

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and medicine, comprehensively covering both the methods students will encounter in lab classes and those that underpin recent advances and discoveries. Its problem-solving approach continues with worked examples that set a challenge and then show students how the challenge is met. New to this edition are case studies, for example, that illustrate the relevance of the principles and techniques to the diagnosis and treatment of individual patients. Coverage is expanded to include a section on stem cells, chapters on immunochemical techniques and spectroscopy techniques, and additional chapters on drug discovery and development, and clinical

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biochemistry. Experimental design and the statistical analysis of data are emphasised throughout to ensure students are equipped to successfully plan their own experiments and examine the results obtained.

From Nobel Prize-winning scientist James D. Watson, a living legend for his work unlocking the structure of DNA, comes this candid and entertaining memoir, filled with practical advice for those starting out their academic careers. In *Avoid Boring People*, Watson lays down a life's wisdom for getting ahead in a competitive world. Witty and uncompromisingly honest, he shares his thoughts

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on how young scientists should choose the projects that will shape their careers, the supreme importance of collegiality, and dealing with competitors within the same institution. It's an irreverent romp through Watson's colorful career and an indispensable guide to anyone interested in nurturing the life of the mind.

From the Double Helix to the Dawn of Digital Life

The Double Helix

Molecular Biology of the Cell

Genes, Genomes, and Society

The \$1,000 Genome

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extraordinary fruits of the recombinant DNA revolution. Though completely up-to-date with the latest research advances, the Sixth Edition of James D. Watson's classic book, *Molecular Biology of the Gene* retains the distinctive character of earlier editions that has made it the most widely used book in molecular biology. Twenty-two concise chapters, co-authored by six highly respected biologists, provide current, authoritative coverage of an exciting, fast-changing discipline. Mendelian View of the World, Nucleic Acids Convey Genetic Information, The Importance of Weak Chemical Interactions, The Importance of High Energy Bonds, Weak and Strong Bonds Determine Macromolecular

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Interactions, The Structures of DNA and RNA, Genome Structure, Chromatin and the Nucleosome, The Replication of DNA, The Mutability and Repair of DNA, Homologous Recombination at the Molecular Level, Site-Specific Recombination and Transposition of DNA, Mechanisms of Transcription 13 RNA Splicing, Translation, The Genetic Code, Transcriptional Regulation in Prokaryotes, Transcriptional Regulation in Eukaryotes, Regulatory RNAs, Gene Regulation in Development and Evolution, Genomics and Systems Biology, Techniques of Molecular Biology, Model Organisms. Intended for those interested in learning more about the basics of Molecular Biology.

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In a book that promises to change the way we think and talk about genes and genetic determinism, Evelyn Fox Keller, one of our most gifted historians and philosophers of science, provides a powerful, profound analysis of the achievements of genetics and molecular biology in the twentieth century, the century of the gene. Not just a chronicle of biology's progress from gene to genome in one hundred years, *The Century of the Gene* also calls our attention to the surprising ways these advances challenge the familiar picture of the gene most of us still entertain. Keller shows us that the very successes that have stirred our imagination have also radically undermined the primacy of the gene—word and

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object—as the core explanatory concept of heredity and development. She argues that we need a new vocabulary that includes concepts such as robustness, fidelity, and evolvability. But more than a new vocabulary, a new awareness is absolutely crucial: that understanding the components of a system (be they individual genes, proteins, or even molecules) may tell us little about the interactions among these components. With the Human Genome Project nearing its first and most publicized goal, biologists are coming to realize that they have reached not the end of biology but the beginning of a new era. Indeed, Keller predicts that in the new century we will witness another Cambrian era, this

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time in new forms of biological thought rather than in new forms of biological life.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Now completely up-to-date with the latest research advances, the Seventh Edition of James D. Watson 's classic book, Molecular Biology of the Gene retains the distinctive character of earlier editions that has made it the most widely used book in molecular biology. Twenty-two concise chapters, co-authored by six highly distinguished biologists, provide current, authoritative coverage of an exciting, fast-changing discipline.

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Molecular Biology of the Gene

Father to Son

Molecular Structure of Nucleic Acids

Genes, Girls and Gamow

A Personal Account of the Discovery of the Structure of
DNA

*Candid, provocative, and disarming,
this is the widely-praised memoir of
the co-discoverer of the double helix
of DNA.*

*A collection of outspoken and topical
essays, speeches, and reports by J. D.*

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Watson, co-discoverer of the structure of DNA in 1953 and best-selling author of The Double Helix. These often controversial pieces cover the advance of molecular genetics, the prospect of curing cancer over the next decade, how human genetic knowledge is likely to be used, for good or bad, and Watson's early life and career.

There is growing enthusiasm in the scientific community about the prospect of mapping and sequencing the human

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genome, a monumental project that will have far-reaching consequences for medicine, biology, technology, and other fields. But how will such an effort be organized and funded? How will we develop the new technologies that are needed? What new legal, social, and ethical questions will be raised? Mapping and Sequencing the Human Genome is a blueprint for this proposed project. The authors offer a highly readable explanation of the

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technical aspects of genetic mapping and sequencing, and they recommend specific interim and long-range research goals, organizational strategies, and funding levels. They also outline some of the legal and social questions that might arise and urge their early consideration by policymakers.

A comprehensive and authoritative coverage of the field, with the lively, incisive writing style for which

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earlier editions were famous.

Life at the Speed of Light

The DNA Story

A Documentary History of Gene Cloning
DNA

Biotechnological Innovations in Animal
Productivity

The classic personal account of Watson and Crick's groundbreaking discovery of the structure of DNA, now with an introduction by Sylvia Nasar, author of *A Beautiful Mind*. By identifying the structure of DNA,

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the molecule of life, Francis Crick and James Watson revolutionized biochemistry and won themselves a Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of science's greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspoiled by

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false modesty, Watson relates his and Crick's desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life. Never has a scientist been so truthful in capturing in words the flavor of his work.

A full-color survey of recombinant DNA techniques and their dramatic results.

"Venter instills awe for biology as it is, and as it might become in our hands."

—Publishers Weekly On May 20, 2010, headlines around the world announced one

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of the most extraordinary accomplishments in modern science: the creation of the world's first synthetic lifeform. In *Life at the Speed of Light*, scientist J. Craig Venter, best known for sequencing the human genome, shares the dramatic account of how he led a team of researchers in this pioneering effort in synthetic genomics—and how that work will have a profound impact on our existence in the years to come. This is a fascinating and authoritative study that provides readers an opportunity to ponder afresh the age-

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old question “What is life?” at the dawn of a new era of biological engineering. Fifty years ago, James D. Watson, then just twentyfour, helped launch the greatest ongoing scientific quest of our time. Now, with unique authority and sweeping vision, he gives us the first full account of the genetic revolution—from Mendel’s garden to the double helix to the sequencing of the human genome and beyond. Watson’s lively, panoramic narrative begins with the fanciful speculations of the ancients as

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to why “like begets like” before skipping ahead to 1866, when an Austrian monk named Gregor Mendel first deduced the basic laws of inheritance. But genetics as we recognize it today—with its capacity, both thrilling and sobering, to manipulate the very essence of living things—came into being only with the rise of molecular investigations culminating in the breakthrough discovery of the structure of DNA, for which Watson shared a Nobel prize in 1962. In the DNA molecule’s graceful curves was the key to a whole new science.

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Having shown that the secret of life is chemical, modern genetics has set mankind off on a journey unimaginable just a few decades ago. Watson provides the general reader with clear explanations of molecular processes and emerging technologies. He shows us how DNA continues to alter our understanding of human origins, and of our identities as groups and as individuals. And with the insight of one who has remained close to every advance in research since the double helix, he reveals how genetics has

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unleashed a wealth of possibilities to alter the human condition—from genetically modified foods to genetically modified babies—and transformed itself from a domain of pure research into one of big business as well. It is a sometimes topsy-turvy world full of great minds and great egos, driven by ambitions to improve the human condition as well as to improve investment portfolios, a world vividly captured in these pages. Facing a future of choices and social and ethical implications of which we dare not remain

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uninformed, we could have no better guide than James Watson, who leads us with the same bravura storytelling that made *The Double Helix* one of the most successful books on science ever published. Infused with a scientist's awe at nature's marvels and a humanist's profound sympathies, *DNA* is destined to become the classic telling of the defining scientific saga of our age.

The Race to Synthesize a Human Gene
Oversight and Review of Clinical Gene
Transfer Protocols

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The Secret of Life

The Century of the Gene

Lessons from a Life in Science

James Watson's fame as a scientist and research leader overshadows his considerable achievements as an innovator in the form and style of scientific communication. This book surveys Watson's books and essays from the perennially best-selling *The Double Helix* through his classic textbooks of the 1960s and polemics on ethical questions about genetic technology to more recent works of autobiography.

Gene transfer research is a rapidly advancing field that

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involves the introduction of a genetic sequence into a human subject for research or diagnostic purposes. Clinical gene transfer trials are subject to regulation by the U.S. Food and Drug Administration (FDA) at the federal level and to oversight by institutional review boards (IRBs) and institutional biosafety committees (IBCs) at the local level before human subjects can be enrolled. In addition, at present all researchers and institutions funded by the National Institutes of Health (NIH) are required by NIH guidelines to submit human gene transfer protocols for advisory review by the NIH Recombinant DNA Advisory Committee (RAC). Some

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protocols are then selected for individual review and public discussion. Oversight and Review of Clinical Gene Transfer Protocols provides an assessment of the state of existing gene transfer science and the current regulatory and policy context under which research is investigated. This report assesses whether the current oversight of individual gene transfer protocols by the RAC continues to be necessary and offers recommendations concerning the criteria the NIH should employ to determine whether individual protocols should receive public review. The focus of this report is on the standards the RAC and NIH should use in

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exercising its oversight function. Oversight and Review of Clinical Gene Transfer Protocols will assist not only the RAC, but also research institutions and the general public with respect to utilizing and improving existing oversight processes.

Recombinant DNA, Third Edition, is an essential text for undergraduate, graduate, and professional courses in Genomics, Cell and Molecular Biology, Recombinant DNA, Genetic Engineering, Human Genetics, Biotechnology, and Bioinformatics. The Third Edition of this landmark text offers an authoritative, accessible and engaging introduction to modern, genome-center

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biology from its foremost practitioners. The new edition explores core concepts in molecular biology in a contemporary inquiry-based context, building its coverage around the most relevant and exciting examples of current research and landmark experiments that redefined our understanding of DNA. As a result, students learn how working scientists make real high-impact discoveries. The first chapters provide an introduction to the fundamental concepts of genetics and genomics, an inside look at the Human Genome Project, bioinformatic and experimental techniques for large-scale genomic studies, and a survey of epigenetics and

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RNA interference. The final chapters cover the quest to identify disease-causing genes, the genetic basis of cancer, and DNA fingerprinting and forensics. In these chapters the authors provide examples of practical applications in human medicine, and discuss the future of human genetics and genomics projects.

Published to mark the fiftieth anniversary of the Nobel Prize for Watson and Crick's discovery of the structure of DNA, an annotated and illustrated edition of this classic book gives new insights into the personal relationships between James Watson, Frances Crick, Maurice Wilkins, and Rosalind Franklin, and the

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making of a scientific revolution.

Molecular Biology of the Gene: Specialized aspects
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Truth, Reason, and Decency

Sources of Medical Technology