

By James D Watson Recombinant Dna Genes And Genomics A Short Course 3rd Third Edition

Recombinant DNA: Genes and Genomes Recombinant DNA Recombinant DNA Watson And DNA Recombinant DNA A Passion for DNA DNA Synthetic Biology Molecular Politics The Dna Story Reader's Guide to the History of Science Cancer Virus Hunters Insulin Recombinant DNA The Nobel Prize Winners: 1944-1969 Nature Encyclopedia of the Human Genome: Renal carcinoma and von Hippel-Lindau disease - Zuckerkandl, Emile The Coevolution Quarterly Science Year The Writing Life of James D. Watson Chemical Engineering Progress James D. Watson James D. Watson James D. Watson Viktor K. McElheny James D. Watson James D. Watson James D. Watson Lewis D. Solomon Susan Wright James D. Watson Arne Hessenbruch Gregory J. Morgan Kersten T. Hall James D. Watson Frank Northen Magill David Neil Cooper Errol C. Friedberg

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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 centered 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 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

an overview of recombinant dna techniques and surveys advances in recombinant molecular genetics experimental methods and their results

genes within cells primary genetic material creating recombinant dna molecules cloned genes tumor viruses genetic diseases

the most influential scientist of the last century james watson has been at dead center in the creation of modern molecular biology this masterful biography brings to life the extraordinary achievements not only of watson but also all those working on this cutting edge of scientific discovery such as walter gilbert francis crick francois jacob and david baltimore from the ruthless competition in the race to identify the structure of dna to a near mutiny in the harvard biology department to clashes with ethicists over issues in genetics watson has left a wake of detractors as well as fans victor mcelheny probes brilliantly behind the veil of watson s own invented persona bringing us close to the relentless genius and scientific impresario who triggered and sustained a revolution in science

in 1953 two young and unknown scientists james watson and francis crick sparked a worldwide revolution with their discovery of the molecular composition of dna in this collection of outspoken and topical essays speeches and reports watson offers his unique insight into the advance of molecular genetics the prospect of curing cancer over the next decade how human genetic knowledge is likely to be used particularly in relation to cloning and genetically modified food as well as shedding light on his early life and career

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 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 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 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 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

for nearly forty years using recombinant dna tools researchers and then businesses have genetically engineered organisms by transferring naturally occurring genes from one organism into another doing so modifies the genetic code of living cells imparting new traits and achieving desired results this is done in the production of proteins pharmaceuticals and seeds synthetic biology argues solomon could free scientists from the need to find natural genes to make such desired modifications synthetic biology permits more complex and sophisticated bioengineering than what can be achieved through previous genetic modification techniques drawing on non biological scientific and engineering disciplines including information technology and nanotechnology synthetic biology strives to rearrange an organism's genes on a far wider scale by rewriting its genetic code the chemical instructions need to design assemble and operate a species by allowing the writing of artificial genetic codes synthetic biology can transform existing industries and spawn new ones creating new products as well as radically reshaping existing items arguing for self regulation by the scientific and business communities lewis d solomon recommends a policy framework that would guard against governmental overregulation which could create a barrier to innovation although synthetic biotechnology holds considerable social and economic potential absent a nurturing regulatory climate it may prove difficult to translate research discoveries into commercially viable applications

the promise of genetic engineering in the early 1970s to profoundly reshape the living world activated a variety of social interests in its future promotion and control with public safety gene patents and the future of genetic research at stake a wide range of interest groups competed for control over this powerful new technology in this comparative study of the development of regulatory policy for genetic engineering in the united states and the united kingdom susan wright analyzes government responses to the struggles among corporations scientists universities trade unions and public interest groups over regulating this new field drawing on archival materials government records and interviews with industry executives politicians scientists trade unionists and others on both sides of the atlantic molecular politics provides a comprehensive account of a crucial set of policy decisions and explores their implications for the political economy of science by combining methods from political science and the history of science wright advances a provocative interpretation of the evolution of genetic engineering policy and makes a major contribution to science and public policy studies

first published in 2001 routledge is an imprint of taylor francis an informa company

the author tells a history of the study of cancer causing viruses from the early twentieth century to the development of an hpv vaccine for cervical cancer in 2006 he profiles the cancer virus hunters who made breakthroughs in tumor virology

one hundred years after a milestone medical discovery insulin the crooked timber tells the story of how insulin was transformed from what one clinician called thick brown muck into the very first drug to be produced using genetic engineering one which would earn the founders of the us biotech company genentech a small fortune

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 70s polemics on ethical questions about genetic technology to more recent works of autobiography

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