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DNA : the Master Molecule Elsevier

Morrison (human genetics, University of Ulster, UK) and Spence (biomedical science, University of Ulster, UK) offer an accessible reference on the genetic disorders that surgeons can expect to meet in general surgical practice. Written in non-technical language, with a glossary, list of abbreviations, and color and b&w photos and medical images, the book supplies an introduction to the nomenclature and technology of molecular biology, and will be a useful starting point for those who wish to extend their knowledge. Annotation :2005 Book News, Inc., Portland, OR (booknews.com).

Genetics for Surgeons New York Review of Books

A version of the OpenStax text

The Gene Oxford University Press, USA

In 1957 two young scientists, Matthew Meselson and Frank Stahl, produced a landmark experiment confirming that DNA replicates as predicted by the double helix structure Watson and Crick had recently proposed. It also gained immediate renown as a “ most beautiful ” experiment whose beauty was tied to its simplicity. Yet the investigative path that led to the experiment was anything but simple, Frederic L. Holmes shows in this masterful account of Meselson and Stahl ’ s quest. This book vividly reconstructs the complex route that led to the Meselson-Stahl experiment and provides an inside view of day-to-day scientific research--its unpredictability, excitement, intellectual challenge, and serendipitous windfalls, as well as its frustrations, unexpected diversions away from original plans, and chronic uncertainty. Holmes uses research logs, experimental films, correspondence, and interviews with the participants to record the history of Meselson and Stahl ’ s research, from their first thinking about the problem through the publication of their dramatic results. Holmes also reviews the scientific community ’ s reception of the experiment, the experiment ’ s influence on later investigations, and the reasons for its reputation as an exceptionally beautiful experiment.

DNA Simon and Schuster

Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board ’ s AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

The DNA molecule OUP Oxford

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.

DNA Capstone

Portions of this book were first published in The Atlantic monthly.

Genetic Engineering of Plants Springer

Essays discuss recombinant DNA research, and the structure, mobility, and self-repairing mechanisms of DNA.

Aging of the Genome World Scientific

The Biotech Primer takes an in-depth look at the biotech industry, and in particular, the science that drives it. From cell structure to protein structure; gene expression to genetic variation and genetic engineering; the human immune response to the production of antibodies for biotech application; and finally drug discovery, drug development, and biomanufacturing: we discuss the key concepts and technologies that impact current biotechnology developments. This book will support your growth as a biotechnology professional. Although the industry itself is constantly changing, these fundamental concepts upon which it is built will remain important for years to come: and decision-makers who understand these fundamentals will be better able to evaluate and predict new trends. More than anything else, we hope that your understanding of the science behind biotechnology will serve to increase your enthusiasm for this exciting and truly life-changing industry. The future is here and you should be a part of it.

Anatomy & Physiology John Wiley & Sons

Science need not be dull and bogged down by jargon, as Richard Dawkins proves in this entertaining look at evolution. The themes he takes up are the concepts of altruistic and selfish behaviour; the genetical definition of selfish interest; the evolution of aggressive behaviour; kinship theory; sex ratio theory; reciprocal altruism; deceit; and the natural selection of sex differences. 'Should be read, can be read by almost anyone. It describes with great skill a new face of the theory of evolution.' W.D. Hamilton, Science

The Biotech Primer National Academies Press

This text explains in a step-by-step fashion why DNA forms specific structures, the nature of these structures and how they fundamentally effect the biological processes of transcription, recombination and replication.

Chemical Biology of the Genome Infobase Publishing

?? Giant molecules are important in our everyday life. But, as pointed out by the authors, they are also associated with a

culture. What Bach did with the harpsichord, Kuhn and Flory did with polymers. We owe a lot of thanks to those who now make this music accessible ??Pierre-Gilles de Gennes Nobel Prize laureate in Physics (Foreword for the 1st Edition, March 1996) This book describes the basic facts, concepts and ideas of polymer physics in simple, yet scientifically accurate, terms. In both scientific and historic contexts, the book shows how the subject of polymers is fascinating, as it is behind most of the wonders of living cell machinery as well as most of the newly developed materials. No mathematics is used in the book beyond modest high school algebra and a bit of freshman calculus, yet very sophisticated concepts are introduced and explained, ranging from scaling and reptations to protein folding and evolution. The new edition includes an extended section on polymer preparation methods, discusses knots formed by molecular filaments, and presents new and updated materials on such contemporary topics as single molecule experiments with DNA or polymer properties of proteins and their roles in biological evolution.

DNA W. W. Norton & Company

DNA Structure and Function, a timely and comprehensive resource, is intended for any student or scientist interested in DNA structure and its biological implications. The book provides a simple yet comprehensive introduction to nearly all aspects of DNA structure. It also explains current ideas on the biological significance of classic and alternative DNA conformations. Suitable for graduate courses on DNA structure and nucleic acids, the text is also excellent supplemental reading for courses in general biochemistry, molecular biology, and genetics. Explains basic DNA Structure and function clearly and simply Contains up-to-date coverage of cruciforms, Z-DNA, triplex DNA, and other DNA conformations Discusses DNA-protein interactions, chromosomal organization, and biological implications of structure Highlights key experiments and ideas within boxed sections Illustrated with 150 diagrams and figures that convey structural and experimental concepts

The Way of the Cell Knopf

The Nobel Prize for the discovery of the structure of DNA was given to three scientists - James Watson, Francis Crick, and Maurice Wilkins. It was the experimental work of Wilkins and his colleague Rosalind Franklin that provided the clues to the structure. Here, Wilkins, who died in 2004, gives us his own account of his life, his early work in physics, the tensions and exhilaration of working on DNA, and his much discussed difficult relationship with his colleague Rosalind. This is a highly readable, and often moving account from a highly distinguished scientist who played one of the key roles in the historic discovery of the molecule behind inheritance.

Giant Molecules Knopf

Melanin is a biological molecule associated with pigmentation in humans and animals.

However, melanin has been observed to have other functions such as neuroprotection and energy production. In *Melanin, the Master Molecule*, researchers summarize several decades worth of knowledge on melanin and its physicochemical properties. Nine chapters explain the intrinsic biochemistry of melanin, comparisons with conventional energy producing and respiratory biomolecules, the property of melanin to transform light energy into chemical energy through the dissociation of the water molecule, and the theories of melanin based energy production in the nervous system, the cell nucleus, muscles and the eye, and the role the role of melanin in the context of ageing. The authors also delve into the possibility of melanin being the key molecule needed to spark life since its water dissociating property through the absorption of light energy emulates the role of chlorophyll, but unlike the latter, it is not limited to the plant cell environment. Hence, melanin is referred to as the master molecule which can provide a missing link to the biochemical processes behind the origin of life. *Melanin, the Master Molecule* is an exciting reference for biochemists and laymen interested in the science of melanin and a new perspective on the origin of life as we know it.

Maurice Wilkins: The Third Man of the Double Helix Basic Books

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Cell Bantam

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the

necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, *Concepts of Biology* is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of *Concepts of Biology* is that instructors can customize the book, adapting it to the approach that works best in their classroom. *Concepts of Biology* also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

It Ain't Necessarily So Simon and Schuster
Dr Francis S. Collins, head of the Human Genome Project, is one of the world's leading scientists, working at the cutting edge of the study of DNA, the code of life. Yet he is also a man of unshakable faith in God. How does he reconcile the seemingly unreconcilable? In *THE LANGUAGE OF GOD* he explains his own journey from atheism to faith, and then takes the reader on a stunning tour of modern science to show that physics, chemistry and biology -- indeed, reason itself -- are not incompatible with belief. His book is essential reading for anyone who wonders about the deepest questions of all: why are we here? How did we get here? And what does life mean?

In Search of Schrodinger's Cat Simon and Schuster
Chemical Biology of the Genome provides a comprehensive overview of essential concepts and principles of genomic and epigenomics dynamics as explored through the lens of chemical biology. Key examples and case studies illustrate chemical biology methods for study and analysis of the genome and epigenome, with an emphasis on relevance to physiological and pathophysiological processes and drug discovery. Authors and international leaders in biochemical studies of the genome, Drs. Siddhartha Roy and Tapas Kundu, adopt an integrated, interdisciplinary approach throughout, demonstrating how fast evolving chemical and mass-scale sequencing tools are increasingly used to interpret biochemical processes of the genome. Later sections discuss chemical modifications of the genome, DNA sequence recognition by proteins and gene regulation, GWAS and EpiGWAS studies, 3D architecture of the genome, and functional genome architecture. In-depth, discovery focused chapters examine intervention in gene networks using siRNA/shRNA, miRNA, and anti-miR, small molecule modulation of iPS, drug resistance pathways altered DNA methylation as drug targets, anti-miR as therapeutics, and nanodelivery of drugs. Offers an interdisciplinary discussion of the chemical biology of the genome and epigenome, employing illustrative case studies in both physiological and

pathophysiological contexts Supports researchers in employing chemical and mass-scale sequencing approaches to interpret genomic and epigenomic dynamics Highlights innovative pathways and molecular targets for new disease study and drug discovery

The Selfish Gene Academic Press

Aging has long since been ascribed to the gradual accumulation of DNA mutations in the genome of somatic cells. However, it is only recently that the necessary sophisticated technology has been developed to begin testing this theory and its consequences. Vijg critically reviews the concept of genomic instability as a possible universal cause of aging in the context of a new, holistic understanding of genome functioning in complex organisms resulting from recent advances in functional genomics and systems biology. It provides an up-to-date synthesis of current research, as well as a look ahead to the design of strategies to retard or reverse the deleterious effects of aging. This is particularly important in a time when we are urgently trying to unravel the genetic component of aging-related diseases. Moreover, there is a growing public recognition of the imperative of understanding more about the underlying biology of aging, driven by continuing demographic change.

Strengthening Forensic Science in the United States National Academies Press

Is our nature—as individuals, as a species—determined by our evolution and encoded in our genes? If we unravel the protein sequences of our DNA, will we gain the power to cure all of our physiological and psychological afflictions and even to solve the problems of our society? Today biologists—especially geneticists—are proposing answers to questions that have long been asked by philosophy or faith or the social sciences. Their work carries the weight of scientific authority and attracts widespread public attention, but it is often based on what the renowned evolutionary biologist Richard Lewontin identifies as a highly reductive misconception: "the pervasive error that confuses the genetic state of an organism with its total physical and psychic nature as a human being." In these nine essays covering the history of modern biology from Darwin to Dolly the sheep, all of which were originally published in *The New York Review of Books*, Lewontin combines sharp criticisms of overreaching scientific claims with lucid expositions of the exact state of current scientific knowledge—not only what we do know, but what we don't and maybe won't anytime soon. Among the subjects he discusses are heredity and natural selection, evolutionary psychology and altruism, nineteenth-century naturalist novels, sex surveys, cloning, and the Human Genome Project. In each case he casts an ever-vigilant and deflationary eye on the temptation to look to biology for explanations of everything we want to know about our physical, mental, and social lives. These essays—several of them updated with epilogues that take account of scientific developments since they were first written—are an indispensable guide to the most controversial issues in the life sciences today. The second edition of this collection includes new essays on genetically modified food and the

completion of the Human Genome Project. It is an indispensable guide to the most controversial issues in the life sciences today.