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Professor Brown has written a number of undergraduate textbooks including Gene Cloning and DNA Analysis: An Introduction (6th edition, Wiley-Blackwell, 2010) and Genomes (3rd edition, Garland Science, 2006). As well as new editions of these books, he has written a new introductory genetics textbook published by Garland in 2011 and, with Keri Brown, a book on Biomolecular Archaeology published by Wiley-Blackwell, also in 2011.

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Why gene cloning and DNA analysis are important -- Vectors for gene cloning : plasmids and bacteriophages -- Purification of DNA from living cells -- Manipulation of purified DNA -- Introduction of DNA into living cells -- Cloning vectors for Escherichia coli -- Cloning vectors for eukaryotes -- How to obtain a clone of a specific gene -- The polymerase chain reaction -- Sequencing genes and genomes -- Studying gene expression and function -- Studying genomes -- Studying transcriptomes and proteomes -- Production of protein from cloned genes -- Gene cloning and DNA analysis in medicine -- Gene cloning and DNA analysis in agriculture -- Gene cloning and DNA analysis in forensic science and archaeology.

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prior knowledge of the subject, its importance, the principles of the techniques used and their applications are all carefully laid out, with over 250 clearly presented four-colour illustrations. In addition to a number of informative changes to the text throughout the book, the final four chapters have been significantly updated and extended to reflect the striking advances made in recent years in the applications of gene cloning and DNA analysis in biotechnology. Gene Cloning and DNA Analysis remains an essential introductory text to a wide range of biological sciences students; including genetics and genomics, molecular biology, biochemistry, immunology and applied biology. It is also a perfect introductory text for any professional needing to learn the basics of the subject. All libraries in universities where medical, life and biological sciences are studied and taught should have copies available on their shelves. "... the book content is elegantly illustrated and well organized in clear-cut chapters and subsections... there is a Further Reading section after each chapter that contains several key references... What is extremely useful, almost every reference is furnished with the short but distinct author's remark." – Journal of Heredity, 2007 (on the previous edition)

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Gene Cloning provides a basic introduction for students and researchers who have no previous experience of experiments with DNA, and assumes very little prior knowledge on the part of the reader. A three part structure addresses the basic principles of gene cloning, the application of cloning in gene analysis, and the role of gene cloning in research and biotechnology. The book is written in clear, jargon-free language, and is extensively illustrated with two-color line drawings.

Genomes 4 has been completely revised and updated. It is a thoroughly modern textbook about genomes and how they are investigated. As with Genomes 3, techniques come first, then genome anatomies, followed by genome function, and finally genome evolution. The genomes of all types of organism are covered: viruses, bacteria, fungi, plants, and animals including humans and other hominids. Genome sequencing and assembly methods have been thoroughly revised including a survey of four genome projects: human, Neanderthal, giant panda, and barley. Coverage of genome annotation emphasizes genome-wide RNA mapping, with CRISPR-Cas 9 and GWAS methods of determining gene function covered. The knowledge gained from these techniques forms the basis of the three chapters that describe the three main types of genomes: eukaryotic, prokaryotic (including eukaryotic organelles), and viral (including mobile genetic elements). Coverage of genome expression and

replication is truly genomic, concentrating on the genome-wide implications of DNA packaging, epigenome modifications, DNA-binding proteins, non-coding RNAs, regulatory genome sequences, and protein-protein interactions. Also included are applications of transcriptome analysis, metabolomics, and systems biology. The final chapter is on genome evolution, focusing on the evolution of the epigenome, using genomics to study human evolution, and using population genomics to advance plant breeding. Established methods of molecular biology are included if they are still relevant today and there is always an explanation as to why the method is still important. Each chapter has a set of short-answer questions, in-depth problems, and annotated further reading. There is also an extensive glossary. Genomes 4 is the ideal text for upper level courses focused on genomes and genomics.

The VitalBook e-book version of Genomes 3 is only available in the US and Canada at the present time. To purchase or rent please visit http://store.vitalsource.com/show/9780815341383 Covering molecular genetics from the basics through to genome expression and molecular phylogenetics, Genomes 3is the latest edition of this pioneering textbook. Updated to incorporate the recent major advances, Genomes 3 is an invaluable companion for any undergraduate throughout their studies in molecular genetics. Genomes 3 builds on the achievements of the previous two editions by putting genomes, rather than genes, at the centre of molecular genetics teaching. Recognizing that molecular biology research was being driven more by genome sequencing and functional analysis than by research into genes, this approach has gathered momentum in recent years.

Illustrated thoroughly, Biomolecular Archaeology is the first book to clearly guide students through the study of ancient DNA: how to

analyze biomolecular evidence (DNA, proteins, lipids and carbohydrates) to address important archaeological questions. The first book to address the scope and methods of this new cross-disciplinary area of research for archaeologists Offers a completely up-to-date overview of the latest research in this innovative subject Guides students who wish to become biomolecular archaeologists through the complexities of both the scientific methods and archaeological goals. Provides an essential component to undergraduate and graduate archaeological research

Biochemistry, by Professor Terry Brown of the University of Manchester, is designed to be the textbook of choice for any non-majors biochemistry course.

This text offers a fresh, distinctive approach to the teaching of molecular biology that reflects the challenge of teaching a subject that is in many ways unrecognizable from the molecular biology of the 20th century - a discipline in which our understanding has advanced immeasurably, but about which many questions remain to be answered. With a focus on key principles, this text emphasizes the commonalities that exist between the three kingdoms of life, giving students an accurate depiction of our current understanding of the nature of molecular biology and the differences that underpin biological diversity.

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