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Their results were published in the Journal of Molecular Biology. How does a cell kill itself ... published evidence that cytochrome c is not unfolded. 'In our new study, we have looked in even more ...

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Full-Time Faculty – Natural Sciences Division; Head of Molecular Genetics
Lung cancer has an uncanny ability to change its identity to resist drugs. Researchers are learning what drives these changes.

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Research suggests that epigenetic changes resulting from environmental stimuli in one generation can have lasting effects on future generations.

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BarCharts' three-panel Molecular Biology QuickStudy guide provides a detailed review of the principal areas of biology at the molecular level. A perfect resource for students in an introductory molecular biology course or those in higher-level courses who are in need of a refresher, this guide includes up-to-date information on biomolecules, DNA replication, transcription, and more--all essential knowledge for the successful biology student. Color-coded sections are enhanced by diagrams and illustrations highlighting major processes and structures.

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Molecular Biology, Second Edition, examines the basic concepts of molecular biology while incorporating primary literature from today ' s leading researchers. This updated edition includes Focuses on Relevant Research sections that integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. The new Academic Cell Study Guide features all the articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. Animations provided deal with topics such as protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE. The text also includes updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA. An updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. This text is designed for undergraduate students taking a course in Molecular Biology and upper-level students studying Cell Biology, Microbiology, Genetics, Biology, Pharmacology, Biotechnology, Biochemistry, and Agriculture. NEW: "Focus On Relevant Research" sections integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. NEW: Academic Cell Study Guide features all articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. NEW: Animations provided include topics in protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE Updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA Updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. Fully revised art program

This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology, or gene cloning and expression. The techniques used in basic research and biotechnology laboratories are covered in detail. Students gain hands-on experience from start to finish in subcloning a gene into an expression vector, through purification of the recombinant protein. The third edition has been completely re-written, with new laboratory exercises and all new illustrations and text, designed for a typical 15-week semester, rather than a 4-week intensive course. The "project" approach to experiments was maintained: students still follow a cloning project through to completion, culminating in the purification of recombinant protein. It takes advantage of the enhanced green fluorescent protein - students can actually visualize positive clones following IPTG induction. Cover basic concepts and techniques used in molecular biology research labs Student-tested labs proven successful in a real classroom laboratories Exercises simulate a cloning project that would be performed in a real research lab "Project" approach to experiments gives students an overview of the entire process Prep-list appendix contains necessary recipes and catalog numbers, providing staff with detailed instructions

Clear, concise, and well-organized, the Cell and Molecular Biology Study Guide is an excellent learning tool for students of cellular and molecular biology. The sixteen chapters of the book follow a logical progression beginning with an introduction to cells and concluding with an overview of current techniques in cellular and molecular biology. Each brief chapter effectively separates core concepts, clarifying each individually and creating a set of building blocks that allow students to fully comprehend one aspect of the subject matter before moving on to the next. Topics in the guide include: Bioenergetics, Enzymes, and Metabolism The Plasma Membrane The Cytoskeleton and Cell Motility DNA Replication and Repair Cell Signaling and Signal Transduction The book also covers aerobic respiration and mitochondria, photosynthesis, and the chloroplast, the nature of the gene and genome, gene expression, and cellular reproduction. Accessible and informative, Cell and Molecular Biology Study Guide can be used as a companion to standard textbooks in the field. It is also a useful reference tool for students new to the discipline or those looking for a quick review of the subject matter. Mark Running earned his Ph.D. in genetics at the California Institute of Technology and completed postdoctoral research at the University of California, Berkeley. Dr. Running is an assistant professor in the Department of Biology at the University of Louisville in Kentucky where he teaches courses in developmental, cellular, and molecular biology. In addition to his teaching, he serves on the Undergraduate Curriculum Committee. Dr. Running is the recipient of numerous grants from the National Science Foundation, and was a Howard Hughes Predoctoral Fellow and a Damon Runyon-Walter Winchell Cancer Research Postdoctoral Fellow.

Basic Methods in Molecular Biology discusses the heart of the most recent revolution in biology—the development of the technology of genetics. The achievements in this field have simply changed what biologists do and, perhaps even more important, the way they think. Moreover, never before have scientists from such a broad range of disciplines rushed into such a small and slightly arcane field to learn and carry off a bit of the technology. This book comprises 21 chapters, opening with three introductory ones that discuss the basics of molecular biology; the tools of the molecular biologist; and general preparations, procedures, and considerations for use of the book. The following chapters then discuss cloning vectors and bacterial cells; preparation of DNA from eukaryotic cells; probing nucleic acids; plasmid DNA preparation; DNA restriction fragment preparation; purification of DNA; and preparation and analysis of RNA from eukaryotic cells. Other chapters cover preparation of DNA from bacteriophage clones; cloning DNA from the eukaryotic genome; subcloning into plasmids; M13 cloning and sequencing; further characterization of cloned DNA; transfection of mammalian cells in culture; protein methods; general methods; and specialized methods. This book will be of interest to practitioners in the fields of biology and molecular genetics.

Molecular Biology, Third Edition, provides a thoroughly revised, invaluable resource for college and university students in the life sciences, medicine and related fields. This esteemed text continues to meet the needs of students and professors by offering new chapters on RNA, genome defense, and epigenetics, along with expanded coverage of RNAi, CRISPR, and more ensuring topical content for a new class of students. This volume effectively introduces basic concepts that are followed by more specific applications as the text evolves. Moreover, as part of the Academic Cell line of textbooks, this book contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles form the basis of case studies found in the associated online study guide that is designed to tie current topics to the scientific community. Contains new chapters on non-coding RNA, genome defense, epigenetics and epigenomics Features new and expanded coverage of RNAi, CRISPR, genome editing, giant viruses and proteomics Includes an Academic Cell Study Guide that ties all articles from the text with concurrent case studies Provides an updated, ancillary package with flashcards, online self-quizzing, references with links to outside content, and PowerPoint slides with images

Molecular Biology in Narrative Form is a groundbreaking, interdisciplinary study that shows a connection between molecular biology and French narrative theory, and, from a unique perspective, bridges the gap between two disciplines that seem mutually exclusive. With many new insights on the link between science (in the form of DNA, a set of codes) and literature (in the form of language, another set of codes), this book looks at modern experimental science within the framework of semiotics. Priya Venkatesan reveals the extraordinary parallel between the work of scientists and the work of narratologists who develop narrative paradigms and analyze literary texts. Molecular Biology in Narrative Form will be a useful resource for scientists and literary theorists interested in the epistemological workings of science, as well as, anyone that desires to explore the linkages between scientific theory and literary analysis.