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The Double Helix Nov 19 2021 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, 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 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.

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Biology Apr 12 2021

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Student Study Guide Jul 28 2022 by Richard Liebaert, Linn-Benton Community College. Students can master key concepts and earn a better grade with the thought-provoking exercises found in this study guide. A wide range of questions and activities help students test their understanding of biology. The Student Study Guide also includes references to student media activities on the Campbell Biology CD-ROM and Web Site.

Molecular Biology of the Cell Oct 31 2022

A Laboratory Guide to RNA Dec 29 2019 Here is the most complete guide available to the isolation, analysis, and synthesis of RNA. It covers everything researchers and laboratory workers need to know about the study of gene expression via RNA analysis—from the theory behind the methods, to actual problem-solving techniques. Step-by-step protocols are presented for each method. A careful presentation of the experimental formalities of these protocols enables specialists and nonspecialists alike to implement the methods easily in the laboratory. Each protocol is accompanied by the theoretical background underlying the experimental procedure and most chapters contain illustrations of typical results and troubleshooting tips. A Laboratory Guide to RNA offers a straightforward detailed account of experimental procedures, ranging from the isolation of RNA from a variety of cell and tissue types, detection analysis, and quantitation using a range of strategies, to large- and small-scale synthesis of RNA. This unique guide not only covers established procedures such as RNA blotting and nuclease protection, but also the latest protocols for quantitative PCR and differential display. Protocols addressing in situ hybridization are highlighted in an eight-page, full-color section that illustrates the power of the technique for detection of gene expression in tissues and whole organisms. Featuring contributions from leading research laboratories and the biotechnology field, A Laboratory Guide to RNA: Isolation, Analysis, and Synthesis provides all the methods required for RNA analysis. It is the ideal laboratory guide for research scientists, graduate students, and lab personnel who need a solid reference on the analysis of gene expression at the RNA level.

[Biology for the IB Diploma](#) Apr 24 2022 This concise guide provides all the content you need for the IB Diploma in Biology at both Standard and Higher Level.* Follows the structure of the IB Programme exactly and include all the options* Each topic is presented on its own page for clarity* Standard and Higher Level material clearly indicated* Plenty of practice questions* Written with an awareness that English may not be the reader's first language

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research, ranging from simple to highly complex. This broad scope allows the treatment of specialized methods side by side with basic biochemical techniques, making the book a real treasure trove for every researcher experimenting with RNA.

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RNA and Protein Synthesis Oct 26 2019 RNA and Protein Synthesis is a compendium of articles dealing with the assay, characterization, isolation, or purification of various organelles, enzymes, nucleic acids, translational factors, and other components or reactions involved in protein synthesis. One paper describes the preparatory scale methods for the reversed-phase chromatography systems for transfer ribonucleic acids. Another paper discusses the determination of adenosine- and aminoacyl adenosine-terminated sRNA chains by ion-exclusion chromatography. One paper notes that the problems involved in preparing acetylaminoacyl-tRNA are similar to those found in peptidyl-tRNA synthesis, in particular, to the lability of the ester bond between the amino acid and the tRNA. Another paper explains a new method that will attach fluorescent dyes to cytidine residues in tRNA; it also notes the possible use of N-hydroxysuccinimide esters of dansylglycine and N-methylanthranilic acid in the described method. One paper explains the use of membrane filtration in the determination of apparent association constants for ribosomal protein-RNS complex formation. This collection is valuable to bio-chemists, cellular biologists, micro-biologists, developmental biologists, and investigators working with enzymes.

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