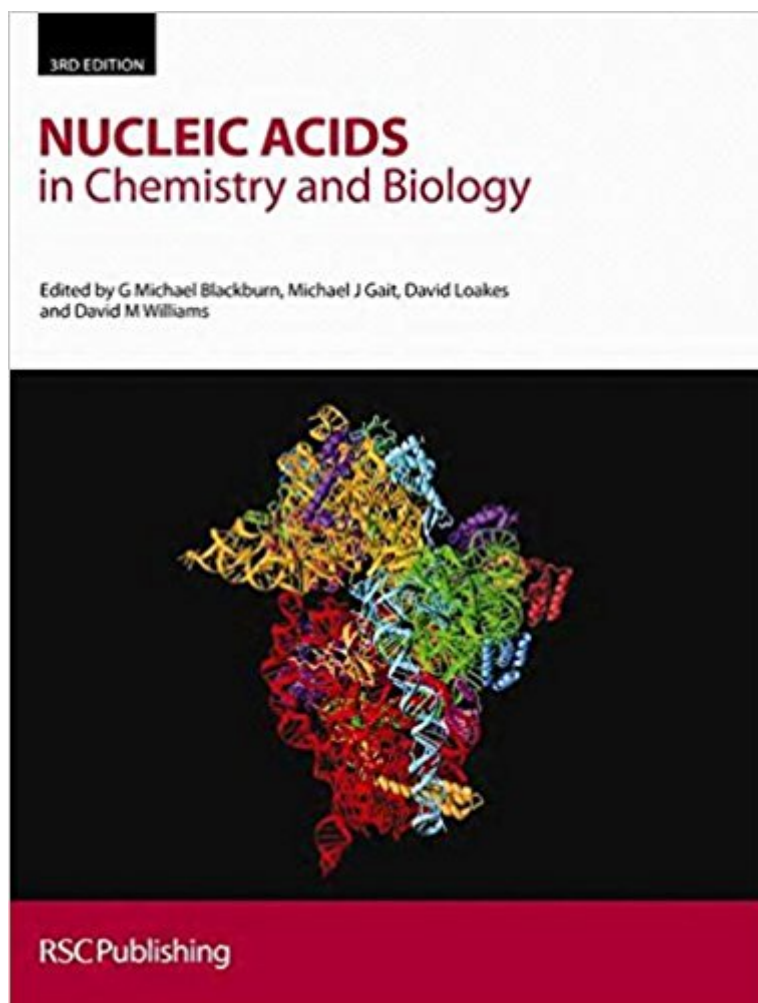


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Nucleic Acids In Chemistry And Biology: RSC



Synopsis

The structure, function and reactions of nucleic acids are central to molecular biology and are crucial for the understanding of complex biological processes involved. Revised and updated Nucleic Acids in Chemistry and Biology 3rd Edition discusses in detail, both the chemistry and biology of nucleic acids and brings RNA into parity with DNA. Written by leading experts, with extensive teaching experience, this new edition provides some updated and expanded coverage of nucleic acid chemistry, reactions and interactions with proteins and drugs. A brief history of the discovery of nucleic acids is followed by a molecularly based introduction to the structure and biological roles of DNA and RNA. Key chapters are devoted to the chemical synthesis of nucleosides and nucleotides, oligonucleotides and their analogues and to analytical techniques applied to nucleic acids. The text is supported by an extensive list of references, making it a definitive reference source. This authoritative book presents topics in an integrated manner and readable style. It is ideal for graduate and undergraduates students of chemistry and biochemistry, as well as new researchers to the field.

Book Information

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Customer Reviews

As the title indicates, the book has broad coverage of many facets of nucleic acids. It serves well as a textbook by introducing basic materials in a larger scope other than in depth. Some critics may address the issue that there are not enough details in some chapters, for example, Chapter 11, where physical methods are summarized. It can be argued, however, that its role as a textbook does not allow or need such details. The references should fill the gap given the fact that the

students should have chemistry and biology background and be able to read further references. The glossary at the beginning is well organized for students to adopt the terminology. The subject index gives enough details for easy searching. The contents are rich in information. The references are very much up-to-date and carefully selected to reflect their impact in the fields. The colored figures are very well designed and deliver on the point. The bold font of some text gives a strange untidy impression. The titles may have gone unnecessarily too far in levels, for example: 4.2.1.2.2. The color of those titles takes some neatness away from the pages. The authors / publisher maintain a good website where corrections are made to the book. The book covers the chemistry of nucleic acids and its components impressively well in different chapters. It will help readers to get a sound understanding of the chemistry, its implications, consequences and applications. The typical synthetic methods of nucleoside, nucleotide and oligonucleotide analogues are presented clearly with appropriate examples. Nicely covered are also the chemical properties and reactions of these species and nucleic acids. The biotechnology and genomic science are delivered in a very readable way even for a chemist.

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