Introduction to Molecular Biology, Genomics and Proteomics for Biomedical Engineers (Biomedical Engineering)

Robert B. Northrop, Anne N. Connor

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Illustrates the Complex Biochemical Relations that Permit Life to Exist

It can be argued that the dawn of the 21st century has emerged as the age focused on molecular biology, which includes all the regulatory mechanisms that make cellular biochemical reaction pathways stable and life possible. For biomedical engineers, this concept is essential to their chosen profession. **Introduction to Molecular Biology, Genomics, and Proteomics for Biomedical Engineers** hones in on the specialized organic molecules in living organisms and how they interact and react.

The book's sound approach to this intricately complex field makes it an exceptional resource for further exploration into the biochemistry, molecular biology, and genomics fields. It is also beneficial for electrical, chemical, and civil engineers as well as biophysicists with an interest in modeling living systems.

This seminal reference includes many helpful tools for self study, including—

- 143 illustrations, 32 in color, to bolster understanding of complex biochemical relations
- 20 tables for quick access to precise data
- 100 key equations
- Challenging self-study problems within each chapter

Conveys Human Progress in the Manipulation of Genomes at the Molecular Level

In response to growing global interest in biotechnology, this valuable text sheds light on the evolutionary theories and future trends in genetic medicine and stem cell research. It provides a broader knowledge base on life-permitting complexities, illustrates how to model them quantitatively, and demonstrates how to manipulate them in genomic-based medicine and genetic engineering.

Consequently, this book allows for a greater appreciation among of the incredible complexity of the biochemical systems required to sustain life in its many forms.

A solutions manual is available for instructors wishing to convert this reference to classroom use.

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