



Molecular Biology in Medicine

By Timothy M. Cox, John Sinclair

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This text fuses science and medicine, clearly demonstrating the clinical relevance of microbiology, and the way in which this rapidly emerging discipline is beginning to reshape the way disease is investigated and how patients are screened, diagnosed and treated. The first part of the book summarises knowledge of basic cell biology with clear and lucid descriptions of how genes work and how the study of human variation and heredity is applied to medical practice. A detailed analysis of Hemophilia A provides a paradigm for the use of molecular biology in the study and treatment of inherited disease. The second section takes the reader through the systematic approaches to studying genes, and provides an entry point for clinicians and researchers who wish to investigate a disease themselves or interpret the experiments of others. The third section shows how molecular biology has been used in medical research to investigate the mechanisms of common diseases; and the final section identifies areas where molecular biology has been used to diagnose and treat disease. It looks at the principles and practice of gene therapy and the design and production of recombinant products for medical use. The book closes with a description of how molecular biology has impinged upon prenatal diagnosis, and the ethical considerations which this raises.

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Editorial Review

Review

"a book for all students in medicine of any year...success of this book is guaranteed to 100%!"

"Cellular and Molecular Biology"

"The clarity of style, together with a reasonably comprehensive glossary and excellent illustrations, makes the book exceptional in this regard...an excellent introductory text, being more complete than previous works published in this area...attractively presented, well illustrated and clearly written...it is to be recommended as a useful general reference and also as a textbook for undergraduate and postgraduate courses in the biomedical sciences."

British Journal of Biomedical Science

"The book is well organized and carefully written. The clarity and readability of the specific topics is accounted for by the expertise and in-depth knowledge of the authors. This knowledge allows for a plainness of writing that enhances the quality of this practical text. The illustrations are well designed, making it easy for the novice to grasp the fundamentals of molecular concepts, and the 10 pages of colour photographs present valuable examples of the results of experimental protocols."

Doody's Health Sciences Book Review Journal

"This is a splendid textbook which will enable the student or practitioner to explore the potential of molecular biology."

Aslib Book Guide

"...should be required reading for all medical students."

British Journal of Haematology

"...a book for all students in medicine of any year."

Cellular & Molecular Biology

From the Back Cover

Molecular biology is reshaping how diseases are screened for, diagnosed, investigated and treated. Molecular biology is changing the way that medicine is practiced and yet, for many, the subject still seems difficult and impenetrable.

Molecular Biology in Medicine provides a guide through the concepts, language and approaches of molecular biology and shows how it is applied to the practice of medicine. It introduces the basics of gene structure, gene expression and how genetic defects contribute to disease. Individual chapters show how molecular biology underpins our understanding of disease mechanisms and gives details of how this can be used to provide better healthcare, now and in the future.

Molecular Biology in Medicine includes:

- Fundamentals of DNA, RNA and protein structure and function
- The regulation of gene activity
- How to analyse human genes and the principles of medical genetics
- Cancer
- Monogenic and polygenic disorders
- Microbial infections
- Haemophilia
- Disorders of the immune system
- Recombinant products for medical use
- Drug discovery and gene therapy
- Prenatal diagnosis and ethics
- A detailed glossary
- Clinical correlations stressing the clinical applications of the basic science

Molecular Biology in Medicine will appeal to a diverse readership, from practicing physician or higher examination candidate, who wants to refresh their knowledge of molecular biology; to medical researchers who want to expand their knowledge beyond their ever-shrinking specialist subject; and to the medical and biomedical science student.

Users Review

From reader reviews:

Marcos Gorman:

The experience that you get from *Molecular Biology in Medicine* is a more deep you excavating the information that hide within the words the more you get enthusiastic about reading it. It does not mean that this book is hard to comprehend but *Molecular Biology in Medicine* giving you buzz feeling of reading. The writer conveys their point in certain way that can be understood through anyone who read it because the author of this publication is well-known enough. This book also makes your personal vocabulary increase well. Making it easy to understand then can go with you, both in printed or e-book style are available. We highly recommend you for having that *Molecular Biology in Medicine* instantly.

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