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# The Eukaryotic Chromosome

by C.J. BOSTOCK and A.T. SUMNER

1977 viii+520 pages US \$79.95/Dfl. 195.00 ISBN 0-444-80003-4

*The Eukaryotic Chromosome* presents the essentials of the molecular biology of the hereditary material so that their relationship to the chromosome as a whole can be readily understood. Early chapters cover molecular aspects of nucleic acid and chromosomal proteins and their interactions, leading to a consideration of the chromosome as a whole in interphase, mitosis and meiosis; further chapters deal with chromosome bending, gene mapping and the maintenance of chromosomes. Clear diagrams and numerous illustrations complement the text throughout. All research workers who are concerned with chromosomes, especially cytogeneticists and cell biologists as well as molecular biologists, biochemists and geneticists of varied specialisations will find this book an important source of up-to-date information. The introductory material in most chapters makes it a useful text for teachers and advanced students.

Contents: Development of concepts of the chromosome. The constituents of chromosomes: DNA. The constituents of chromosomes: RNA. The constituents of chromosomes: proteins. Molecular interactions of chromosomal constituents. The interphase nucleus. Polytene chromosomes. The mitotic chromosome. The meiotic chromosome. Lampbrush chromosome. Substructure of chromosomes and the banding phenomena. Methods of locating genes and DNA sequences on chromosomes. Chromosome damage and repair. Models of chromosome structure. Appendix: The human karyotype. Subject Index.

## Chromosomes Today Vol. 6

Proceedings of the Helsinki Chromosome Conference held in Helsinki, Finland, August 29-31, 1977

edited by A. DE LA CHAPELLE and M. SORSA

1977 xx+416 pages US \$48.95/Dfl. 120.00 ISBN 0-444-80026-3

*Chromosomes Today* serves two functions: firstly, it gives a concentrated presentation of our knowledge of the eukaryotic chromosome, its structure function, variation and change. Secondly, it is a landmark of current chromosome research, in the form of the proceedings of the 6th International Chromosome Conference. The book is organized in a logical sequence of five themes, each containing introductory summarizing remarks by a leading scientist in the field. The following themes are presented: chromosome structure; evolution of karyotypes; function of chromosomes; effects of mutagens on chromosomes; chromosomes in malignancy. The reader is introduced into the major developments in the field of chromosome research by the *grand old man* of chromosome research, Prof. C.D. Darlington of Oxford.

This book will be of interest to scientists working in the various fields of chromosome research and may also be used for instructive purposes as a comprehensive review of the various aspects of current eukaryotic chromosome research.

Contents: The chromosome revolution. Chromosome structure. Evolution of Karyotypes. Function of chromosomes. Effects of Mutagens on Chromosomes. Chromosomes in Malignancy. Postscript. Author index. Subject index.

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FOR THE PHYSICIAN AND MEDICAL RESEARCHER

## Geographic Medicine for the Practitioner

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DISEASES

edited by Kenneth S. Warren and Adel A. F. Mahmoud

Algorithms, as defined by *The New England Journal of Medicine*, are "unambiguous, step-by-step instructions for solving a clinical problem." This book is composed of a series of concise, up-to-date algorithms for the diagnosis and treatment of a variety of infections that fall into the category of exotic diseases. (For a sample, see the reverse.)

"Exotic diseases" refers to infections imported from foreign countries or foreign to the understanding and practice of the average American physician. Although many of them appear frequently in the U.S., they are taught superficially or not at all in most medical schools, and reliable information on their diagnosis and treatment often must be tediously compiled from various sources. *Geographic Medicine for the Practitioner* will remedy that situation, making information on exotic diseases readily accessible and providing the means to cope with them quickly and effectively.

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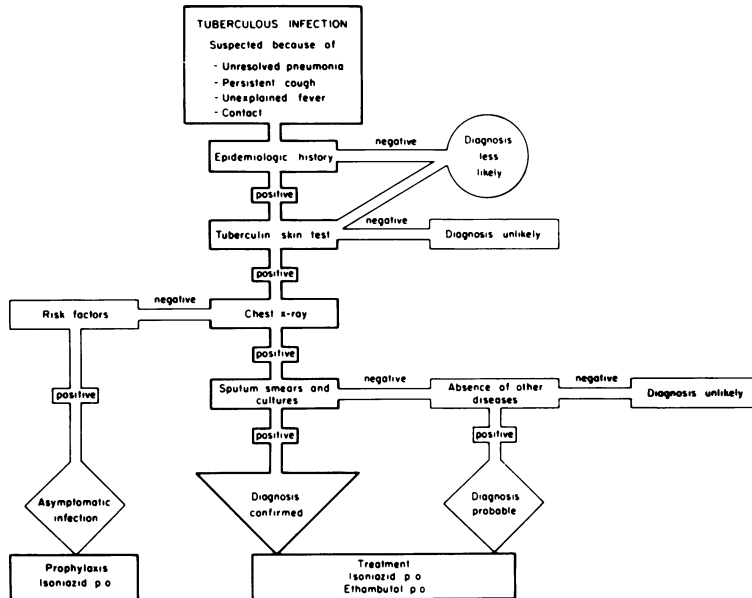
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*Geographic Medicine for the Practitioner* is a revised, up-dated version of a serial feature that appeared in **The Journal of Infectious Diseases** from 1975 to 1977. To be published in March 1978 by The University of Chicago Press, it is the second in the series *Studies in Infectious Diseases Research*. To order, please see the reverse.

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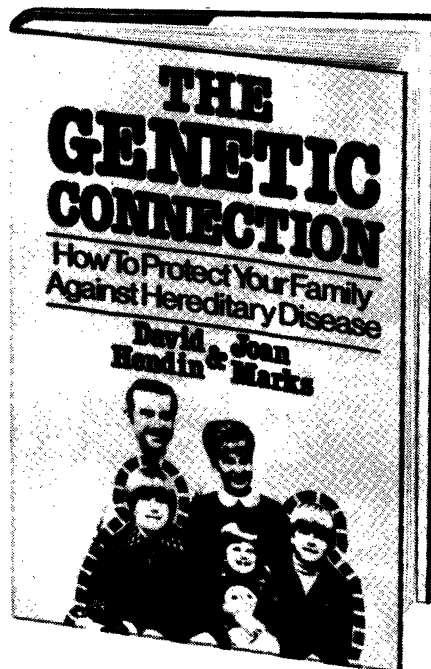
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