DNA Replication in Eukaryotic Cells

Monograph 31

Edited by Melvin L. DePamphilis, National Institute of Child Health and Human Development, National Institutes of Health

DNA replication is a central cog in the machinery of cell and viral proliferation. After significant advances in the past few years, its regulation is now understood in unprecedented depth.

This is the first book to provide a detailed and thoroughly up-to-date review of the complexity of DNA replication in eukaryotic cells. It is organized into three parts: Concepts, a distillation of underlying principles; Enzymes, a description of each protein class involved; and Systems, a review of events over a wide range of organisms. The book is therefore invaluable for teachers who want a current survey of a topic central to the biology syllabus; investigators of replication who will appreciate a remarkably concise, central source of knowledge in their specialty; and scientists studying other biological functions on which DNA replication has an impact.

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1996, 1058 pp., illus., color plates, index
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Telomeres

Monograph 29

Edited by Elizabeth H. Blackburn, University of California, San Francisco; Carol W. Greider, Cold Spring Harbor Laboratory

**--Here's what the reviewers have to say:**

"...the present book is both timely and much needed. The literature has become increasingly diverse and voluminous, making it difficult for the casual reader or newcomer to the field to gain a balanced perspective. Telomeres provides an excellent, easy-to-read introduction for such readers. Moreover, since the book contains a wealth of information on all aspects of telomere biology and biochemistry, it should prove tremendously useful to even the most experienced telomere researcher.

A major strength of the book lies in the breadth of its coverage and the way it links the diverse topics. Each chapter concentrates on a different aspect of telomere research and where necessary describes the experimental system used in performing the research. Thus the book covers topics as diverse as telomere addition in ciliates, gene expression and telomere position effect in yeast, construction of mammalian artificial chromosomes, and telomerase and cancer in humans. Yet the various chapters are not isolated units. The authors frequently refer to other chapters and give short accounts of topics that are discussed in detail elsewhere, providing the reader with a sense of continuity. A further useful and enjoyable feature of the book is its historical perspective, which allows the reader to see how the field developed before being plunged into the intricacies of current knowledge."

--Science

1995, 396 pp., illus., index

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