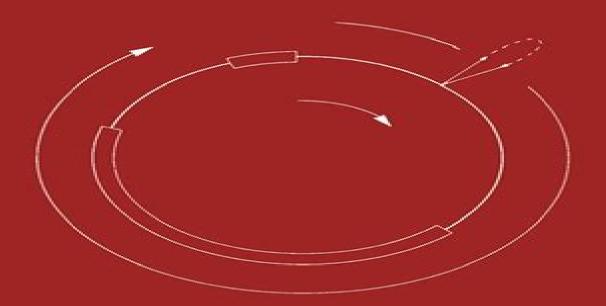
# Reproduction of Eukaryotic Cells



DAVID M. PRESCOTT

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# **Reproduction Of Eukaryotic Cells David Prescott**

Andrzej Ehrenfeucht, Tero Harju, Ion Petre, David M. Prescott, Grzegorz Rozenberg

### **Reproduction Of Eukaryotic Cells David Prescott:**

**Reproduction of Eukaryotic Cells** David M. Prescott, 2012-12-02 Reproduction of Eukaryotic Cells organizes in a single source the principal facts and observations on the cell life cycle and reproduction of eukaryotic cells The aim is to increase the overall understanding of how these cells reproduce themselves and how this reproduction is regulated. The book begins with a discussion of the sections of the cell cycle and regulation of cell reproduction Separate chapters on cell growth cell synchrony the G1 period S period and G2 period follow Subsequent chapters are devoted to activities during cell division cell cycle changes in surface morphology the role of cyclic AMP cAMP and cyclic GMP cGMP in regulation of cell reproduction and changes in nuclear proteins RNA synthesis and enzyme activities during the cell cycle The final chapter covers the genetic analysis of the cell cycle Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Subject Catalog Library of Congress, **Cell Biology A Comprehensive Treatise V2** David M. Prescott, 2012-12-02 Cell Biology A Comprehensive Treatise Volume 2 The Structure and Replication of Genetic Material is mainly about the structure and replication of genetic material in both the nucleus and cytoplasmic organelles This volume is part of the first four volumes that establish a firm foundation regarding issues of cell structure and function These issues include cell reproduction differentiation and cell to cell interactions This book is divided into nine chapters Each chapter deals extensively with chromosomes its physical genetic and chemical structures In addition this book explains the replication of chromosomes in terms of the cell cycle as well as their coding capacity It also discusses the functional organization structure and levels of the chromosomes The concluding chapters present the DNA replication molecular principles and enzymatic machinery Furthermore this book explains DNA repair and its relationship to various biological endpoints The authors of this book reasonably explain and emphasize already established facts and concepts in terms that are relatively easy to understand Undergraduate and graduate students teachers researchers scientists and others interested or in need of information regarding cell biology will find this book of great use **Subject Catalog, 1978** Library of International Review of Cytology K.W. Jeon, M. Friedlander, 1987-02-20 International Review of Cytology Congress, 1978 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1977 Cancer, the Misguided Cell David M. Prescott, Abraham S. Flexer, 1986 Subject Catalog, 1977 Library of Congress, 1977 **Normal and Malignant** Cell Growth R. J. M. Fry, M. L. Griem, W. H. Kirsten, 2014-05-12 Normal and Malignant Cell Growth is a compendium of papers from the Proceedings of the Third Cancer Training Grant of the University of Chicago that deals with the processes associated with malignant neoplasia as well as the cell proliferation kinetics of normal tissues One paper presents the techniques used in the study on the proliferation kinetics of hemopoietic stem cells suggesting that the hemopoietic stem cell population is not homogenous but consists of a primitive pluripotential stem cell A series of experiments at the Brookhaven National Laboratory investigates the relationship of cell survival specifically that of stem cells to the survival of the irradiated test animal One result of the experiment shows a rapid migration of a number of stem cells from shielded marrow into unshielded marrow at the pressure of a rapid circulating pool The numbers of stem cells are somewhat dependent on the dose given to the unshielded marrow and are greater with the greater dose Another paper also investigates the four methods that are used in the study of cellular kinetics in human tumors This compendium can prove helpful for biochemists micro biologists cellular researchers and academicians involved in the study of cellular biology physiology or oncology

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General Catalogue of Printed Books 1976 to 1982 British Library, 1983 The Cell Cycle David Owen Morgan, 2007 The Cell Cycle Principles of Control provides an engaging insight into the process of cell division bringing to the student a much needed synthesis of a subject entering a period of unprecedented growth as an understanding of the molecular mechanisms underlying cell division are revealed **Computation in Living Cells** Andrzej Ehrenfeucht, Tero Harju, Ion Petre, David M. Prescott, Grzegorz Rozenberg, 2013-03-09 Natural Computing is concerned with computation that is taking place in Nature The investigation of computations in living cells is one of the central and fastest growing areas of research in this field Gene assembly in ciliates unicellular organisms is a splendid example of such computations and it is fascinating from both the biological and the computational viewpoints As a matter of fact both biology and the science of computation have benefited from the interdisciplinary research on the computational nature of gene assembly this work has helped to clarify important biological aspects of gene assembly yielded novel insights into the nature of computation and broadened our understanding of what computation is about This monograph gives an accessible account of both the biology and the formal analysis of the gene assembly process It can be used as a textbook for either graduate courses or seminars *The Reproduction of* Eukaryotic Cells David M. Prescott, 1978

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