OWPTER 13 DNA, RNA, and Proteins)

Replication of DNA

KEY IDEAS

As you read this section, keep these questions in mind:

- How does DNA replicate, or make a copy of itself?
- · What are the roles of proteins in DNA replication?
- How is DNA replication different in prokaryotes and eukaryotes?

READING TOOLBOX

Summarize As you read this section, underline the main ideas. When you finish reading, write an outline of the section using the underlined ideas.

Critical Thinking

 Apply Concepts A particular DNA molecule contains 10,000 base pairs. How many base pairs will be in each of the two new strands formed during DNA replication?

LOOKING CLOSER

 Identify Label the two replication forks on the figure.

How Is DNA Copied?

When cells divide, each new cell contains an exact copy of the DNA in the original cell. That happens because DNA consists of two strands of complementary base pairs. If the two strands are separated, each strand serves as a pattern to make a new complementary strand. So, a single DNA molecule can be used as a template, or pattern, to produce two identical DNA molecules. This process of **DNA replication** involves three steps.

First, the DNA double helix unwinds and forms the Y shapes shown below. These Y shapes are called *replication forks*. At the replication forks, the complementary DNA strands separate from each other.



Y-shaped replication forks form where two strands of DNA separate.

Next, new nucleotides are added at each fork. The nucleotides form new base pairs according to the base-pairing rules. For example, adenine on an original strand will pair with thymine on a new strand. In this way, the original two strands act as templates for two new strands. Two new double helixes form as more nucleotides are added.

Finally, the two new DNA molecules split apart. Each molecule consists of one strand of the original DNA and one new strand. The nucleotide sequences in both new DNA molecules are identical to each other and to the original DNA molecule.

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Douglas Marsland

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Crider, 1965 Cell Biology of Physarum and Didymium V1 Henery Aldrich, 2012-12-02 Cell Biology of Physarum and Didymium Volume I Organisms Nucleus and Cell Cycle presents important experimental research on Physarum and Didymium for developmental and cellular studies This book is organized into four parts encompassing 12 chapters that summarize the taxonomy biological activities genetics and cell cycle of these organisms. The opening part covers two chapters on morphology taxonomy phylogeny biosystematics and evolutionary implications of Physarum and Didymium species This is followed by discussions on the biological aspects of these species These include periodic events of the mitotic cycle in Physarum polycephalum The general characteristics of chemoreception at the membrane level using plasmodium as a model organism as well as the structure and motility of plasmodium are also included The third part of the book focuses on genetic analysis of plasmodium development and the discovery of techniques for the genetic manipulation of P polycephalum Progress in the genetic analysis of other processes is summarized The concluding part examines the morphological evolution of the nucleus during the mitotic cycle together with the results from ultracytochemical and radioautographic studies It also includes a discussion on DNA organization and replication in P polycephalum Finally the synthesis and degradation of RNA in Physarum and the relationship of these biochemical processes to mitotic cycle and differentiation are tackled in the concluding chapter The book will serve as a frequent single reference source to brief cell biologists on the primary research on Physarum and Didymium It will be a good source for graduate students in cell biology and perhaps in other graduate Principles of Modern Biology Douglas Marsland,1957 Molecular Biology of the Gene James D. Watson, 1976 courses The mendelian view of the world Cells o bey the laws of chemistry A chemist's look at the bacterial cell The importance of weak chemical interactions coupled reactions and group transfers The concept of template surfaces The arrangement of genes on chromosomes Gene structure and function The repplication of DNA The transcription of RNA UPON DNA templates Involvement of RNA in protein synthesis The genetic code Regulation of protein synthesis and function The replication of viruses The essence of being eucaryotic Embrylogy at the molecular level The control of cell proliferation The problem of antibody synthesis The viral origins of cancer Modern Biology James Howard Otto, Albert Towle, 1977 Boyd's Introduction to the Study of Disease William Boyd, Huntington Sheldon, 1988 Cell Biology of Physarum and Didymium: Organisms, nucleus, and cell cycle Henry C. Aldrich, John W. Daniel, 1982 V 1 Organisms nucleus and cell cycle v 2 Differentiation metabolism and methodology **Introductory Molecular Genetics** JoAnn Edwards-Moulds, 1986

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