

## Midterm Exam 2 Study Guide

### Chapter 13 of 16 (13.1-13.12)

#### 1) Diagrams and processes involved in DNA replication

- Process DNA processes = Chromosomes
- Replication starts the origin of chromosomal DNA (one short piece of DNA) (initial) called the origin
  - Multiple origins to replicate
- All DNA replication from semi-conservative called a replication
- All chromosomes undergo bidirectional replication and called replication
- E. Coli is single circular DNA's symmetrical copy of the DNA (DNA and single origin)

#### 2) The sequence of the events of DNA replication

- 1) DNA-binding proteins bind the replication origin 2) The helicase located in the middle of the protein complex and first protein to DNA polymerase starting the DNA process 3) DNA topoisomerase ahead of replication
- Fig 13.1
- Initiator: The beginning of the replication and synthesis of primers
- Elongation: Extension of the primer
- Completion: Finishing the replication of chromosomes

#### 3) DNA Replication and its relationship to cell division

- When the circular chromosome is fully replicated, the two new double-stranded copies remain together to constitute a Fig 13.16. An enzyme called DNA gyrase cuts one of the newly made DNA duplexes leading to separate the chromosomes. The two molecules will move in their direction that diverge path.
- In eukaryotic cells, the chromosomes are linear, and the architecture chromosomes are called chromosomes. (Typically) replicated bidirectional semi-conservative by about 100 molecules where the replication is initiated. DNA consists of a combination of chromosomes, chromatids, and sister chromatids.

# Micro Study Guide

**R Bogdan**



**Micro Study Guide:**

Micro Study Guide: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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