

MRS. HILL'S BIOLOGY STUDY GUIDE

2ND SEMESTER

Here is some general information on what we covered for the second semester. GOOD LUCK!!!

CHROMOSOMES AND CELL REPRODUCTION (CHAPTER 13)

A. CHROMOSOME STRUCTURE

1. During cell division, the DNA (**CHROMATIN**) in a eukaryotic cell's nucleus is coiled into very tight-compact structures called **CHROMOSOMES**.
2. When preparing for cell division, chromosomes form copies of themselves, each half of the chromosome is called a **CHROMATID** or **SISTER CHROMATIDS**. Chromatids form as the DNA makes copies of itself before cell division.
 - a. The constricted area of each chromatid is called a **CENTROMERE**. The centromere holds the two chromatids together until they separate during cell division.



B. CHANGE IN CHROMOSOME STRUCTURE

1. Changes in an organism's chromosome structure are called **mutations**.
2. Breakage of a chromosome can lead to four types of mutations:
 - a. **Deletion mutation**- a piece of chromosome breaks off completely. After cell division, the new cell will lack a certain set of genes.
 - b. **Duplication mutation**- a chromosome fragment attaches to its homologous chromosome, which will then carry two copies of a certain set of genes.
 - c. **Inversion mutation**-the chromosome piece reattaches to the original chromosome but in a reverse orientation. If the piece reattaches to a non-homologous chromosome, a **translocation mutation** results.

C. CHROMOSOME NUMBERS

1. Each human body cell contains **46 CHROMOSOMES**, (2n) OR **TWO COMPLETE SETS**.
2. Any cell that contains **TWO COMPLETE SETS** of chromosomes is called a **DIPLOID CELL**. A diploid cell is commonly abbreviated as 2n or 46.
3. A cell with only **ONE COMPLETE SET** of chromosomes is called a **HAPLOID CELL**. A haploid cell is abbreviated as 2n or n=23.

2nd Semester Study Guide Fill In The Blank

N Colangelo



2nd Semester Study Guide Fill In The Blank:

This book delves into 2nd Semester Study Guide Fill In The Blank. 2nd Semester Study Guide Fill In The Blank is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into 2nd Semester Study Guide Fill In The Blank, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to 2nd Semester Study Guide Fill In The Blank
 - Chapter 2: Essential Elements of 2nd Semester Study Guide Fill In The Blank
 - Chapter 3: 2nd Semester Study Guide Fill In The Blank in Everyday Life
 - Chapter 4: 2nd Semester Study Guide Fill In The Blank in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of 2nd Semester Study Guide Fill In The Blank. This chapter will elucidate the essential principles that need to be understood to grasp 2nd Semester Study Guide Fill In The Blank in its entirety.
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 5. In chapter 4, the author will scrutinize the relevance of 2nd Semester Study Guide Fill In The Blank in specific contexts. The fourth chapter will explore how 2nd Semester Study Guide Fill In The Blank is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about 2nd Semester Study Guide Fill In The Blank. This chapter will summarize the key points that have been discussed throughout the book.
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