

## Genetics Exam 2 Study Guide

### 1. Chromosomal Variation

- a. Understand the difference between various chromosomal abnormalities including
  - i. The four main chromosomal rearrangements
    1. Duplications
      - a. Tandem
      - b. Displaced
      - c. Reverse
    2. Deletions
      - a. Homozygous vs heterozygous
    3. Inversions
      - a. Pericentric vs paracentric
    4. Translocations
      - a. Reciprocal
      - b. Non-Reciprocal
      - c. Robertsonian
  - ii. Alterations of chromosomal number
    1. Aneuploidy
      - a. Non-disjunction
    2. Polyploidy

### 2. DNA: Chemical Nature of the Gene

- a. History of DNA
  - i. Know the main requirements of genetic material
  - ii. Know why protein was originally the main candidate for genetic material
  - iii. Know the tetranucleotide hypothesis and what it proposes
  - iv. Know Chargaff's rules and how to use it
  - v. Know the following experiments/developments and their implications
    1. Avery, Mcleod and McCarty experiment
    2. Hershey Chase Experiment
    3. Franklin, Wilkins, Watson, and Crick
- b. DNA Structure
  - i. Primary Structure
    1. Nucleotide composition
    2. Purines vs Pyrimidines
    3. What is the backbone of DNA?

# Genes And Chromosomes Study Guide

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## **Genes And Chromosomes Study Guide:**

## **Genes And Chromosomes Study Guide** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Genes And Chromosomes Study Guide**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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