

## 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

**Kerry L. Hull, Barbara Janson Cohen**



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