## BIO 189 Final Study Guide

It is recommended that you review this study guide to prepare for your midterm in the next module. The final covers learning concepts in Modules 4-7 (Chapters 7-10 in Biology Today and Tomorrow With Physiology (6th ed.).

As a reminder, you can access the readings through the Read section of each module.

Note: Specific topics can be searched within the eBook by utilizing the search bar located in the upper right-hand corner of the screen

#### Module 4: DNA

Key Terms - Chapter 7

| autosomes         | diploid         | primer                        |
|-------------------|-----------------|-------------------------------|
| centromere        | DNA polymerase  | sex chromosomes               |
| chromosome number | DNA replication | sister chromatids             |
| chromosomes       | DNA sequence    | somatic cell nuclear transfer |
| clones            | histones        | (SCNT)                        |
| differentiation   | karyetype       |                               |
|                   | mutation        |                               |

- Develop an understanding of the history of and contributors to the discovery of the structure and function of DNA
  - What is Erwin Chargaff's rules for base pairing? How do we calculate DNA nucleotide composition?
  - o What did Wat son and Crick develop?
  - What was Rosalind Franklin's major contribution?
  - What did Hershey & Chase contribute to the discovery of DNA?
- Describe the leveled organization of genes
  - o What are sister chromatids? How are they organized within the chromosome?
    - What is a centromere?
    - What are histones?
  - What are the components of a nucleotide? Which component differentiates each nucleotide?
    - What is base pairing? What are the nucleotide bases? How are the bases different between RNA and DNA?
    - What type of bond hold the DNA base pairs together?
    - How can the sequence of bases contribute to the diversity among species?
- Explain the arrangement of chromosomes in humans and the results of abnormal chromosome number.

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Scott C. Dulebohn



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