

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 centromere chromosome number chromosomes clones differentiation	diploid DNA polymerase DNA replication DNA sequence histones karyotype mutation	primer sex chromosomes sister chromatids somatic cell nuclear transfer (SCNT)
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- **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?
 - What did Watson 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.**
 - 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.**

Biologyna Final Study Guide

David Floyd



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The Complete Guide to the ABC Molecular Biology Certification Exam Tiffany Roy, Tatum Price, 2020-04-03 In 2009 the National Academy of Sciences NAS authored the report Strengthening Forensic Science in the United States A Path Forward In it the Committee expressed the need for accreditation and certification Accreditation long recognized by public labs as an important benchmark in quality was recognized as an important way to standardize laboratories that provide forensic services Certification can play an important role as a method of oversight in the forensic sciences something also recommended by the National Commission on Forensic Science in October 2014 The Complete Guide to the ABC s Molecular Biology is a professional certification examination preparation text for forensic scientists taking the American Board of Criminalistics Examination in Molecular Biology The book serves as a resource for forensic scientists who are facing more and more pressure to become certified to support them in their pursuit of forensic certification In the years since the NAS report was published there has been increased discussion of forensic certification requirements ABC s Molecular Biology exam is a quality certification and learning the concepts for it will invariably help any professional working in the field The book prepares readers in all relevant topic areas including accreditation safety biological screen principles anatomy and cell biology crime scene and evidence handling concepts in genetics biochemistry statistics DNA evidence and DNA testing The book will be particularly helpful for forensic science laboratory technicians police and investigations professionals forensic serology and DNA analysts attorneys and forensic science students This study guide follows the guidelines for the exam and presents all the information necessary to prepare individuals to pass the exam

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