
Straighterline Microbiology Lab BIO250L Lab 7

Microbial Genetics & Genetic Engineering Worksheet

(New Version Updated)

Pre-Lab Questions

1. Which DNA nitrogenous bases pair with each other? Which bases are purines, and which are pyrimidines?

Adenine and guanine are the purines and Cytosine and Thymine are the pyrimidines.

2. How is DNA information used to make proteins? What are the steps of this process?

Enzymes read the information in a DNA molecule and transcribe it into an intermediary molecule, mRNA. The information contained in the mRNA molecule is translated for amino acids, which are the building blocks of proteins.

3. Give an example of a scenario in which you would perform PCR vs a scenario in which you would use recombinant DNA technology.

For PCR, it is when I have an unknown DNA isolated from a specimen in small concentration, and I want to amplify it so it can be identified through gel electrophoresis. For DNA technology it would be to identify the function of a gene.

4. What occurs during each of the three steps involved in the PCR cycle? How has the use of PCR changed biotechnology?

PCR is based on 3 steps required for any DNA synthesis reaction; 1) denaturation of the template into single strands, 2) annealing of primers to each original strand for new strand synthesis, 3) extension of the new DNA strands from the primers.

5. How could you take a protein with a known sequence of amino acids and use it to create an artificial gene?

With help from known protein sequences, you can make its most probable nucleotide sequence based on the frequency of tRNA that is present in the organism in which we need to express the proteins. We will then artificially make the sequence and amplify it by using PCR.

Lab Manual Genetics Answers

Lingsheng Yao



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Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting **Zoology Laboratory Manual** Albert

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Resources in Education ,1980-12 **Belk Laboratory Manual** Virginia Borden,Virginia Borden Maier,Colleen Belk,2004-04 **Genetics** John B. Jenkins,1979 **Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004** Kenneth Raymond Miller,Joseph S. Levine,Prentice-Hall Staff,2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level [A Laboratory Manual and Study Guide for Anatomy and Physiology](#) Kenneth G. Neal,Barbara H. Kalbus,1976 **Laboratory Manual Inquiry into Life** Sylvia S. Mader, [Biological Investigations Lab Manual](#) Warren Dolphin,David Vleck,Linda Westgate,James Colbert,2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology *Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c* Prentice Hall Direct Education Staff,2001-04 One program that ensures success for all students [The Saunders General Biology Laboratory Manual, 1990](#) Carolyn Eberhard,1989-12 *El-Hi Textbooks in Print* ,1984

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