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## Exercise 9

### DNA Sequence Analysis and the Genetic Code

#### Introduction:

**DNA sequence analysis** involves the determination of the **primary structure** of the DNA molecule in a cell or individual. The structure is the **nucleotide sequence** or the **relative order of nucleotide pairs** in a stretch of DNA, a gene, a chromosome, or the genome. The nucleotide sequence is said to be the most basic property of the gene.

All DNA sequencing protocols involve a common procedure. A protocol will generate a series of single stranded DNA molecules, each molecule one base longer than the previous one. DNA molecules of the *same sequence* but differing in length by one base at the end can be separated by gel electrophoresis on acrylamide gels. Bands corresponding to molecules of increasing length form a "ladder" that can be followed for up to 300 molecules.

#### The Sanger Method of DNA Sequencing

In 1975, Frederick Sanger and his colleagues developed a method for determining the nucleotide sequence of a defined piece of DNA. The method came to be known as the **Sanger method** or **dideoxy chain termination procedure**. The main feature of this procedure is the use of **enzymatic reactions**.

The process is carried out in each of 4 tubes that contain the necessary materials for DNA synthesis. These materials are the following:

1. The **single-stranded DNA** (of unknown sequence) which will serve as the template;
2. The oligonucleotide **primer** that will start DNA synthesis;
3. The **DNA polymerase** that will catalyze the reactions;
4. The **dideoxyribonucleotides (ddNTP's)** – ddATP's, ddCTP's, ddTTP's, and ddGTP's that will be added to the growing nucleotide chain.

The basic idea in the Sanger method is that at this point, each tube will be added with a different **deoxyribonucleotide (ddNTP)**. For example, ddATP is placed in tube 1 so that chain termination will occur with A's, ddCTP in tube 2 so chain termination will occur with C's, ddGTP in tube 3 so that chain termination will occur with G's, AND ddTTP in tube 4 so chain termination will occur with T's.

The result is a series of fragments of different lengths in each tube. In tube 1, all the fragments end in A; in tube 2, all end in C; in tube 3, all end in T; and in tube 4, all end in G.

# Lab Exercise 9a Genetics Answers

**Gerard J. Tortora, Robert B.  
Tallitsch, Nicholas P. Anagnostakos**

## Lab Exercise 9a Genetics Answers:

*Laboratory Exercises in Zoology* H. S. Luker, A. J. Luker, 2013-10-22 *Laboratory Exercises in Zoology* serves as a teaching aid for students studying for Advanced level Zoology or Biology This book provides exercises concerned mainly with physiology and some dissection techniques Organized into 12 parts this book begins with an overview of diffusion of molecules or ions from a region of high concentration to a region of relatively low concentration This text then discusses the breakdown of complex molecules which is achieved by a series of hydrolyses catalyzed by the digestive enzymes produced by the glandular cells of the digestive system Other chapters consider the various stages involved in making permanent stained preparations This book discusses as well the requirements for animals in the laboratory The final chapter deals with the rate of growth of an organism This book is a valuable resource for students studying zoology and biology Teachers and biology laboratory technicians will also find this book extremely useful

### 40 Inquiry Exercises for the College Biology Lab A.

Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

### Genetics Laboratory

**Exercises** Eldon John Gardner, 1956

**Genetics Laboratory Exercises** John Kuspira, George William Rutherford

Walker, 1962 *Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians - E-Book* Thomas P.

Colville, Joanna M. Bassert, 2023-01-18 Learn to apply your A P learning in the lab setting with the *Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians* 4th Edition This practical laboratory resource features a variety of activities such as terminology exercises illustration identification and labelling case presentations and more to help reinforce your understanding of veterinary anatomy and physiology The laboratory manual also features vivid illustrations lists of terms and structures to be identified and step by step dissection guides to walk you through the dissection process Clinically oriented learning exercises introduce you to the language of anatomy and physiology as you identify structures and learn concepts Clear step by step dissection instructions for complex organs such as the heart familiarize you with the dissection process in a very visual easy to understand format Learning objectives the clinical significance of the content and lists of terms and structures to be identified appear at the beginning of each chapter Review activities and study exercises are included in every chapter to reinforce important information High quality full color illustrations provide a solid understanding of the details of anatomic structure

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Levine, Norman M. Schwartz, 1973      *General Zoology Laboratory Manual* Stephen A. Miller, 1994 This is an up to date zoology lab manual which can be used with any general zoology text on the market      *Exploring Physical Anthropology Laboratory Manual & Workbook* Suzanne E. Walker-Pacheco, 2017-02-01 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation      **Biochemistry** John T. Tansey, 2020-07-15 Biochemistry An Integrative Approach with Expanded Topics is addressed to premed biochemistry and life science majors taking a two semester biochemistry course This version includes all 25 chapters offering a holistic approach to learning biochemistry An integrated skill focused approach to the study of biochemistry and metabolism Biochemistry integrates subjects of interest to undergraduates majoring in premed biochemistry life science and beyond while preserving a chemical perspective Respected biochemistry educator John Tansey takes a unique approach to the subject matter emphasizing problem solving and critical thinking over rote memorization Key concepts such as metabolism are introduced and then revisited and cross referenced throughout the text to establish pattern recognition and help students commit their new knowledge to long term memory As part of WileyPLUS Biochemistry includes access to video walkthroughs of worked problems interactive elements and expanded end of chapter problems with a wide range of subject matter and difficulty Students will have access to both qualitative and quantitative worked problems and videos model the biochemical reasoning students will need to master This approach helps students learn to analyze data and make critical assessments of experiments key skills for success across scientific disciplines Introduces students in scientific majors to the basics of biochemistry and metabolism Integrates and synthesizes topics throughout the text allowing students to learn through repetition and pattern recognition Emphasizes problem solving and reasoning skills essential to life sciences including data analysis and research assessment Provides access to video walkthroughs of worked problems interactive features and additional study material through WileyPLUS This volume covers DNA RNA gene regulation synthetic proteins omics plant biochemistry and more With this text students studying a range of disciplines are empowered to develop a lasting foundation in biochemistry and metabolism that will serve them as they advance through their careers      **Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications** James W. [et. al]. Perry, 2002      Basic Medical Language with Flash Cards E-Book Danielle LaFleur Brooks, Myrna LaFleur Brooks, Dale M. Levinsky, 2022-11-16 Build the foundation you need to confidently communicate with

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**Genetics Laboratory Manual** Ernest Brown Babcock, Julius Lloyd Collins, 1918      **Laboratory Exercises in Anatomy & Physiology with Cat Dissections** Gerard J. Tortora, Robert B. Tallitsch, Nicholas P. Anagnostakos, 1989 This top selling laboratory manual follows a body systems approach and is compatible with any introductory anatomy and physiology book It features comprehensive coverage of all structures extensive use of the scientific method and full color illustrations and photographs Reader friendly writing and streamlined organization make this manual a successful learning tool Some of the topics covered include evaluations of cells and tissues chemical reactions examinations of organs and systems and interpreting and applying results For college instructors students pre professionals and readers interested in human and animal anatomy and physiology      *Biology of plants : laboratory exercises* H. L. Dean, 1982      Laboratory Exercises in Biology Theodore T. Ziegenfus, 1990      **El-Hi Textbooks in Print** , 1984      **Biology** Eric Strauss, Marylin Lisowski, 2000  
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