

DNA Fingerprinting

Please highlight all your answers with a yellow background or use a different color font that is easy to read.

LEARNING OBJECTIVES

1. Describe the structure and function of DNA.
2. Describe the procedure of agarose gel electrophoresis and its application to DNA separation.
3. Perform selective DNA digestion using restriction enzymes.
4. Separate the DNA by electrophoresis and estimate the size of a DNA fragment.
5. Evaluate and interpret various scenarios by which DNA fingerprinting is used as a biotechnology tool to identify individuals and show whether individuals or animals are related to each other.

INTRODUCTION

This experiment introduces the basic concepts of DNA fingerprinting, a method used in various medical and forensics procedures, as well as in paternity determinations. This protocol will demonstrate the similarities and differences in organisms at the genetic level. The basic concept of any DNA fingerprinting protocol includes the extraction of DNA from any cell, the restriction or cutting of the DNA by enzymes called endonucleases, and the analysis of the resulting DNA fragments using agarose gel electrophoresis.

Two basic techniques exist that allow analysis of DNA. Polymerase Chain Reaction (PCR) is commonly used in molecular and genetic research. Restriction Fragment Length Polymorphism (RFLP) analysis is another technique used to compare differences and similarities between individuals at the genetic level. We will use this second technique in our investigation. Many forensic scientists, including those involved with criminal investigations, use RFLP analysis in order to eliminate potential suspects related to a crime scene. For our experiment, you will be given five DNA samples, consisting of DNA collected from a crime scene and DNA collected from five different

Dna Fingerprinting Study Guide Answers

**David E. Sadava, Gordon H.
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Study Guide and Solutions Manual Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities

Study Guide and Full Solutions Manual Susan McMurry, John McMurry, 2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook

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Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter

Study Material Based on NCERT English Class - X Rajamohan Srivastava, , Amit Ganguly, 2021-10-28 Section A First Flight Prose and Poetry Paper I Prose 1 A Letter to God 2 Nelson Mandela Long Walk To Freedom 3 Two Stories About Flying i His First flight ii Black Aeroplane 4 From The Diary of Anne Frank 5 The Hundred Dresses I 6 The Hundred Dresses II 7 Glimpses of India 8 Milbil The Otter 9 Madam Rides the Bus 10 The Sremon At Benares 11 The Proposal Paper II Poetry 1 Dust of Snow 2 Fire Andice 3 A Tiger The Zoo 4 How To Tell Wild Animals 5 The Ball Poem 6 Amanda 7 Animals 8 The Treesm 9 Fog 10 The Tale of Custard The Dragon 11 For Anne Gregory Section B Footprints Without Feet Supplementary Reader 1 A Triumph Of Surgery 2 The Thiefs Story 3 The Midnight Visitor 4 A Question of Trust 5 Footprint Without Feet 6 The Making of a Scientist 7 The Necklace 8 The Hack Driver 9 Bholi 10 The Books That Saved The Earth Section C Grammar Reading and Writing 1 Reading Section 2 Grammar Teness Modals Passive Voice Subject Verb Concord Reporting Clauses Determiners Preposition 3 Letter Writing Board Question Paper

Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application

Student Study Guide/solutions Manual to Accompany Foundations of Inorganic, Organic, and Biological Chemistry Katherine J. Denniston, 1995 This student study guide has been written to accompany Foundations of Inorganic Organic and Biological Chemistry by Caret Denniston and Topping It was designed to complement the text not to be used in place of the text Each chapter of the study guide contains the following sections reorganized and expanded set of learning goals concise chapter summary in chapter solved problems list of key terms review problems Preface

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula

Mabee,2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **Life**

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Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e Kenneth W. Raymond,2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond s text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry **Student Study Guide for Biology [by] Campbell/Reece** Martha R. Taylor,2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests Student Study Guide for Biology [by] Campbell/Reece/Mitchell Martha R. Taylor,1999 **eBook: General, Organic and Biological Chemistry 2e**

SMITH,2012-02-16 eBook General Organic and Biological Chemistry 2e *Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry,2006-07 The Study Guide and Full Solutions Manual explain in detail how the answers in text and end of chapter problems are obtained They also contain chapter summaries study hints and self tests for each chapter Study Guide to Accompany Asking about Life [by] Tobin & Dusheck Lori K. Garrett,Tobin,Jennie Dusheck,1998

This exciting first edition text is appropriate for the one or two semester non majors or mixed majors non majors course Tobin and Dusheck s Asking About Life has a unique approach to biology that emphasizes questions experimentation and principles of biology The first edition recently won the Texty Award from the Text and Academic Authors Association in the College Life Sciences category **The Sciences, Study Guide** James Trefil,Anthony J. Gaudin,Robert M. Hazen,2000-11-24 The Sciences An Integrated Approach 3e is the only text on the market for the integrated science course It integrates physics chemistry astronomy earth sciences and biology for students with little or no science background The new third edition builds on the successful previous edition by incorporating changes that meet reform curriculum guidelines Given the dynamic nature of the science disciplines covered in Trefil s text updated content is critical The new third edition has

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