

Get Electrophoresis and Cloning Lab with Learn Genetics Utah

- ❖ Sequential Worksheets for both online labs
- ❖ Includes procedural and critical thinking questions
- ❖ Answer Key Provided!
- ❖ Editable format!

Cell Electrophoresis and Cloning Online Lab with Learn Genetics Utah Eds

Name: _____ and _____
Date: _____

Purpose:

1. To understand the process of how gel electrophoresis works in a real laboratory.
2. To understand the process of how cloning works in a real laboratory.

Directions:
PART I - Gel Electrophoresis Lab

- A. Go to <http://learn.genetics.utah.edu/content/lab/gel/>

Questions for Cell Electrophoresis

1. What does gel electrophoresis help us do?
2. What is the purpose of the "gel"?
3. How do you separate the molecules?

Directions:
PART II - Cloning "What the Mouse"

- A. Go to <http://learn.genetics.utah.edu/content/cloning/whatmouse/>
- B. Follow the instructions in order to successfully clone a mouse.
- C. As you follow the procedures, answer the questions below as you go along!

Questions for Cloning "What the Mouse"

1. What is the first step in cloning a mouse?
2. What type of cell are you getting from:
 - a. Mom: _____
 - b. Dad: _____
3. What is the second step in cloning a mouse?
4. What does a "fertilized egg" do?

Gel Lab Genetics Utah Answers

Howard Schindler, Dennis J. Mucenski

Gel Lab Genetics Utah Answers:

Science Sleuths Howard Schindler, Dennis J. Mucenski, 2021-10-17 Building on the growing public interest in forensics the three cases featured in Science Sleuths Solving Mysteries Using Scientific Inquiry merge science and literacy requiring students to be critical and active readers as they conduct their investigation Beginning with an evaluation of the crime scene photos the student investigators will analyze lab reports phone messages and interviews to extract key information Students will sort through the evidence to formulate their initial hypothesis being alert to red herrings as they work to identify the person responsible for each crime Students are given additional sets of information as they make their way through the case requiring them to reformulate their initial hypothesis until they arrive at a final conclusion The students final write up consists of a chart explaining the means motive and opportunity for each of the suspects in addition to a thorough analysis of the evidence and a recreation of the case Eventually students are able to determine which suspect should be charged with the crime Students will solve fun mysteries using science skills sort through evidence to develop hypotheses and use critical thinking to identify the suspect Grades 6-9

Animal Biotechnology Ashish S. Verma, Anchal Singh, 2013-11-04 Animal Biotechnology introduces applications of animal biotechnology and implications for human health and welfare It begins with an introduction to animal cell cultures and genome sequencing analysis and provides readers with a review of available cell and molecular tools Topics here include the use of transgenic animal models tissue engineering nanobiotechnology and proteomics The book then delivers in depth examples of applications in human health and prospects for the future including cytogenetics and molecular genetics xenografts and treatment of HIV and cancers All this is complemented by a discussion of the ethical and safety considerations in the field Animal biotechnology is a broad field encompassing the polarities of fundamental and applied research including molecular modeling gene manipulation development of diagnostics and vaccines and manipulation of tissue Given the tools that are currently available and the translational potential for these studies animal biotechnology has become one of the most essential subjects for those studying life sciences Highlights the latest biomedical applications of genetically modified and cloned animals with a focus on cancer and infectious diseases Provides firsthand accounts of the use of biotechnology tools including molecular markers stem cells and tissue engineering

Encyclopedia of Stem Cell Research Clive N. Svendsen, Allison D. Ebert, 2008-08-12 What is a stem cell We have a basic working definition but the way we observe a stem cell function in a dish may not represent how it functions in a living organism Only this is clear Stem cells are the engine room of multicellular organisms both plants and animals However controversies breakthroughs and frustration continue to swirl in eternal storms through this rapidly moving area of research But what does the average person make of all this and how can an interested scholar probe this vast sea of information The Encyclopedia of Stem Cell Research provides a clear understanding of the basic concepts in stem cell biology and addresses the politics ethics and challenges currently facing the field While stem cells are exciting alone they are also clearly fueling the traditional areas of

developmental biology and the field of regenerative medicine These two volumes present more than 320 articles that explore major topics related to the emerging science of stem cell research and therapy Key Features Describes the different types of stem cells that have been reported so far and where possible tries to explain for each age tissue and species what is known about the biology of the cells and their history Captures a strong sense of stem cell biology as it stands today and provides the reader with a reference manual to probe the mysteries of the field Considers various religious legal and political perspectives Includes selected reprints of major journal articles that pertain to the milestones achieved in stem cell research Elucidates stem cell terminology for the nonscientist Key Themes Biology Clinical Trials Countries Diseases Ethics History and Technology Industry Institutions Legal Organizations People Politics Religion States With contributions from scholars and institutional experts in the stem cell and social sciences this Encyclopedia provides a primarily nonscientific resource to understanding the complexities of stem cell research for academic and public libraries *Encyclopedia of Stem Cell Research*, 2008 Provides an understanding of the basic concepts in stem cell biology and addresses the politics ethics and challenges currently facing the field From publisher description *Facioscapulohumeral Muscular Dystrophy (FSHD)* David Cooper, Meena Upadhyaya, 2004-03 Facioscapulohumeral muscular dystrophy FSHD is a genetic disorder involving slowly progressive muscle degeneration in which the muscles of the face shoulder blades and upper arms are among the most severely affected It is the third most common inherited muscular dystrophy affecting 1 in 20 000 The search for the molecular basis of the disease is of interest to all genetic researchers involving a deletion outside a coding region resulting in over expression of adjacent genes This volume summarizes the current understanding of the disorder including clinical molecular and therapeutic aspects *The American Biology Teacher*, 2006 **Annual Scientific Report** Howard Hughes Medical Institute, 1990 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1959 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Annual Report** Utah. Department of Public Safety, 1990 [Archives of Pathology & Laboratory Medicine](#), 1993 **Departments of Labor, Health and Human Services, and Education, and Related Agencies Appropriations for Fiscal Year 1992: Department of Health and Human Services** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Departments of Labor, Health and Human Services, Education, and Related Agencies, 1991 *Genetic Engineering/biotechnology Sourcebook* Robert G. Pergolizzi, 1982 The purpose of this sourcebook is to identify and describe 1 529 public sector research projects Shows research sponsored since 1978 Intended for use by scientists R and D and laboratory managers executives and entrepreneurs Source of information was Smithsonian Science Information Exchange Main section project descriptions is arranged alphabetically by funding organizations Each entry gives researcher research title institution objective approach progress and support source Miscellaneous indexes *Cumulated Index Medicus*, 1989 **Toxicology Research Projects Directory**, An indexed directory of current research project abstracts in toxicology and

related fields **Physics Briefs** ,1988 *Catalog of Copyright Entries* Library of Congress. Copyright Office,1958
 Current Programs ,1975 Agrindex ,1993 **Government Reports Announcements & Index** ,1995-10 Annual
Report 1989-90 New Brunswick. Department of Transportation,1991 General activity review of associated branches and
agencies to the Department which includes corporate securities registrations a list of tenders received and general financial
data Branches and agencies reviewed are responsible for motor vehicle activity highway construction traffic engineering
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