

Dna Profiling Activity Hhmi Biointeractive

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Description. This multipart activity is designed to give students a firm understanding of genetic profiling using short tandem repeats (STRs), which is a process used by forensic labs around the world. In Part 1 of this activity, students learn the basics of DNA profiling, including the structure and inheritance of STRs.

DNA Profiling Activity - HHMI BioInteractive
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DNA profiling techniques have been used for a variety of reasons, including forensic science (matching a suspect's or victim's DNA with samples found at the scene of a crime or catastrophe), paternity testing, historical investigations, missing-person investigations, identifying victims of accidents and disasters, and cataloging convicted offenders in a database. In this activity, you will learn about DNA profiling and how to apply it to solve

DNA PROFILING USING STRs - Howard Hughes Medical Institute

During DNA cloning, a new gene is inserted into a loop of bacterial DNA called a plasmid. As shown in the animation, the plasmid is first cut with a restriction enzyme so that the gene of interest, which is isolated from another organism, can be inserted into the loop. ... No rights are granted to use HHMI's or BioInteractive's names or ...

DNA Cloning with Plasmids - HHMI BioInteractive

Sanger sequencing was developed by Fred Sanger and his colleagues in 1977. As shown in the animation, this method involves replicating DNA in the presence of chemically altered nucleotides. These nucleotides stop the replication process whenever they are incorporated into a growing strand of DNA.

Sanger Sequencing - HHMI BioInteractive

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Description. This interactive, modular lab explores the techniques used to identify different types of bacteria based on their DNA sequences. In this lab, students prepare and analyze a virtual bacterial DNA sample. In the process, they learn about several common molecular biology methods, including DNA extraction, PCR, gel electrophoresis, and DNA sequencing and analysis.

Bacterial Identification Virtual Lab - HHMI BioInteractive

Lesson Sequences to Teach Genetics With HHMI BioInteractive Resources Genetics and patterns of inheritance are key topics to cover in a biology course. In this article by Cinthya Fernández, who teaches in Mexico, see how she sequences our genetics resources for her introductory and advanced high school biology classes.

Homepage | HHMI BioInteractive

Polymerase chain reaction, or PCR, amplifies specific sequences of DNA with the help of primers, short sequences that are complementary to two regions flanking the target DNA. As shown in the animation, DNA is repeatedly heated and cooled in the presence of the primers and the enzyme Taq polymerase. In as few as 30 cycles, a billion copies of the target sequence can be made.

Polymerase Chain Reaction (PCR) - HHMI BioInteractive

Description. This interactive module allows students to use DNA profiling and related biological concepts to solve two cases of elephant poaching. This Click & Learn combines elephants, species conservation, and forensics to teach key biological concepts and science practices. Students explore actual cases, adapted for use in the classroom, in which scientists use DNA profiling to investigate the elephant poaching that supplies the ivory trade.

CSI Wildlife - HHMI BioInteractive

He sequences segments of DNA (the barcodes) from animal dung and matches them to sequences found in a reference library of plant DNA, in order to identify the plant species that the animal ate. This technique has allowed Pringle and colleagues to determine that not all grazers or browsers eat the same plants and to obtain a more accurate ...

Metabarcoding - HHMI BioInteractive

Using DNA Profiling to Identify Individuals Each individual inherits two alleles of each STR marker, one from their mother and one from their father. If the two alleles are the same, the individual is homozygous for that particular marker and only one band will appear on the gel.

CSI Wildlife | Case One | How DNA Profiling Works: Application

DNA profiling is a forensic technique used to identify individuals based on differences, or variations, in their DNA sequence. Some regions of the DNA in your cells' chromosomes have a large number of differences among individuals, and even between an individual's two copies.

CSI Wildlife | Case One | How DNA Profiling Works: Background

www.BioInteractive.org Published May 2017 Page 1 of 2 Student Handout Click and Learn Using DNA to Trace Human Migration INTRODUCTION This handout complements the Howard Hughes Medical Institute's Click and Learn "Using DNA to Trace Human

Using DNA to Trace Human Migration worksheet

DNA profiling is the process where a specific DNA pattern, called a profile, is obtained from a person or sample of bodily tissue. Even though we are all unique, most of our DNA is actually identical to other people's DNA. However, specific regions vary highly between people. These regions are called polymorphic.

DNA profiling - Science Learning Hub

HHMI Chromosomes, DNA Structure, and DNA Replication Resource List and Access Instructions DNA Structure and Function This table includes HHMI animations, video clips, interactives, and lecture material pertaining to DNA Structure and Function. All of these resources can be accessed via www.BioInteractive.org and via Holiday Lectures on Science ...

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Molecular Activity in Aplysia Long Term-Memory (1 min. 39 sec.) ... DNA Profiling Activity Ebola: Disease Detectives The Great Elephant Census Modeling Activity ... Math and Statistics (Part 4 of this guide has a complete list of math and statistics resources on BioInteractive.) Modeling Good Webs in Darien, Panama Stalking the Genetic Basis of ...

Howard Hughes Medical Institute

Title: DNA Phylogeny Resources on HHMI's BioInteractive Author: Megan Stine Subject: DNA Phylogeny Keywords: DNA, phylogeny, HHMI, BioInteractive, NABT, short film ...

DNA Phylogeny Resources on HHMI's BioInteractive

<http://www.hhmi.org/biointeractive/dna-transcription-basic-detail>). The first phase of the process of reading DNA information to make proteins starts with a molecule unzipping the DNA. The molecule then copies one of the strands of DNA into a strand of RNA, a close cousin of DNA. This process is called transcription.

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