

Answers to relationships and biodiversity lab

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What is Botana Curus used for? -Botana curus produces the fictitious compound Curol, which is used to treat types of cancer. -Use structural and molecular data to determine which plant species (X, Y, or Z) is most closely related to Botana curus.

How do you test for enzyme M in Botana Curus? Test the plant extract from Botana curus for the presence of enzyme M. Put one small scoop of indicator powder into one depression of the well tray. Use a clean microtip dropper to add 5 drops of Botana curus extract to the indicator powder. A fizzing reaction indicates that enzyme M is present.

What is curol? • “Curol” is a fictitious plant extract mentioned in. the NYSED lab that has the ability to effectively. treat cancer. IT DOES NOT EXIST.

What are the three characteristics that all four species have in common? Final answer: All four species share the characteristics of having DNA as their genetic material, possessing cellular structures, and utilizing proteins as their primary catalysts for biochemical reactions.

Why should Botana Curus not be saved? Expert-Verified Answer. - No Economic or Medicinal Value: - If Botana curus has no known economic or medicinal benefits, there might be little incentive to allocate resources for its preservation. - People may argue that conservation efforts should focus on species that provide tangible benefits to human society.

What are three human activities that could endanger Botana Curus? LAK; What are three types of human activities that could endanger Botana Curus? Pollution (the

burning of fossil fuels), deforestation, invading habitats, or bringing over invasive species.

How do you identify enzyme activity? In most enzymatic assays, enzyme activity is calculated by measuring the rate of consumption of a substrate or the production of a product over a given time period. In the case of PDC and ADH, the rate of oxidation of NADH is monitored.

How do you recognize an enzyme? You can often recognize that a protein is an enzyme by its name. Many enzyme names end with –ase. For example, the enzyme lactase is used to break down the sugar lactose, found in mammalian milk.

How do you test for missing enzymes? An enzyme marker test is a simple blood draw. Depending on the situation, the test may take place in your healthcare provider's office, a blood-testing lab or a hospital.

What is one argument first people might make for not preserving Botana Curus? Botana curus grows slowly and is an endangered species, so its ability to produce large amounts of Curol is limited. Thus, the two arguments are they take a long time to grow, so it may not be worth the effort and there are organisms that are similar, and it may be expensive.

Which species would you hypothesize is most likely to produce curol? Botana curus grows very slowly and is on the endangered species list, so its ability to provide Curol in large quantities is limited. Species that are more closely related to Botana curus are more likely to produce the important substance Curol.

Why might it be important to preserve botana curus? Final answer: Preserving Botana curus is important for maintaining crop diversity and food security, ensuring the continuation of ecosystem services crucial to agriculture, and supporting sustainable natural food sources essential for human diets.

Why are only males in most animal species brightly colored? The bright coloration in the male population attracts females and is an aposematic sign to potential predators. Females often show a preference for exaggerated male secondary sexual characteristics in mate selection.

What would happen if all individuals in a species were sterile? A species is a group of similar-looking organisms that can interbreed and produce fertile offspring. If individuals in a species never reproduced, it would mean an end to that species' existence on Earth.

What 5 key characteristics do all animals have in common? Animals are multicellular eukaryotes that lack cell walls. All animals are heterotrophs. Animals have sensory organs, the ability to move, and internal digestion. They also have sexual reproduction.

What is botana curus? Botana curus is a fictional plant species that is often used in educational contexts, particularly in standardized tests or classroom exercises, to illustrate various biological concepts.

Why is the supply of Botana Curus limited? Botana curus grows very slowly and is on the endangered species list, so its ability to provide Curol in large quantities is limited. Species that are more closely related to Botana curus are more likely to produce the important substance Curol.

How does the amino acid sequence you obtained from the gene fragment for Botana curus compare with the sequences for the other three species? Expert-Verified Answer. The amino acid sequence in protein from the gene fragment for botana curus is the same with species Z that is valine, histidine, leucine, threonine, proline, glutamine and glutamine. Meanwhile, species X and species Y has different amino acid sequence compared to botana curus.

What are three human activities that threaten biodiversity give an example of each? Climate change, deforestation, and pollution have destroyed or damaged habitats, changed where species live and eliminated species at a speed and scale comparable to major extinction events of the past. Species threatened with extinction on current trends .

What are 3 things that humans are doing today that are disrupting ecosystems? Humans impact the physical environment in many ways: overpopulation, pollution, burning fossil fuels, and deforestation. Changes like these have triggered climate change, soil erosion, poor air quality, and undrinkable water.

What are three human activities which could cause the loss of a species?

Second is overexploitation (overfishing, overhunting and overharvesting) for things like food, medicines and timber which drives around 20%. Climate change is the third most significant direct driver of biodiversity loss, which together with pollution accounts for 14%. Invasive alien species account for 11%.

Why is V_{max} never reached? The maximum initial velocity is reached when the enzyme is saturated, when enough substrate is present to ensure that practically all the enzyme is part of the enzyme-substrate complex. Because the enzyme can never be completely saturated, V_{max} is never fully reached.

How does pH affect enzyme activity? Description. Enzyme activity is at its maximum value at the optimum pH. As the pH value is increased above or decreased below the optimum. pH the enzyme activity decreases.

Why should enzymes be kept on ice? It is an article of faith among biochemists and molecular biologists that precious enzymes must be stored on ice. The usual reason given is that, at temperatures around freezing, enzyme activity is minimized and protein stability maximized.

What are the three reasons we might want to preserve Botana Curus?

Preserving Botana curus is important for maintaining crop diversity and food security, ensuring the continuation of ecosystem services crucial to agriculture, and supporting sustainable natural food sources essential for human diets.

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Why is curol important for us? A plant that produces curol, curol is a compound that can be used to treat cancer. This plant grows very slowly and is on the endangered species list.

What is Botana made of? Growing up at the very tip of Texas, this beef and chicken fajita, bean, cheese, guacamole, and sour cream recipe has always been an all-in-one hit at restaurants or any get-together! Serve with Spanish rice and fresh

warm flour tortillas!

What are the examples of preserved food? Fruits: jams, jellies, dried fruit, canned, bottled, freeze dried, frozen, pickled. Vegetables: dried, pickled, frozen, bottled, canned, freeze dried. Meats: pepperoni, salami, ham, bacon, jerky, pickled meat or fish, smoked fish, smoked hock, salted anchovies in oil, canned sardines, canned tuna etc etc.

What are three reasons we preserve food?

What are the needs of food preservation? The primary objective of food preservation is to prevent food spoilage until it can be consumed. Gardens often produce too much food at one time—more than can be eaten before spoilage sets in. Preserving food also offers the opportunity to have a wide variety of foods year-round.

What is botana curus? Botana curus is a fictional plant species that is often used in educational contexts, particularly in standardized tests or classroom exercises, to illustrate various biological concepts.

What are the two arguments people might make for not preserving Botana?
Answer. The two argument people might make for not preserving botana curus are they take a long time to grow, so it may not be worth the effort; there are organisms that are similar, and it may be expensive.

What provides a biological explanation for the common characteristics that these species share? Species may share similar physical features because the feature was present in a common ancestor (homologous structures). Molecular biology. DNA and the genetic code reflect the shared ancestry of life. DNA comparisons can show how related species are.

What are three examples of human activities that could endanger Botana curus? Explanation: Human activities can endanger the Botana curus species in several ways. Three significant activities that can have detrimental effects on the species are habitat destruction, overharvesting, and the facilitation of infectious disease spread.

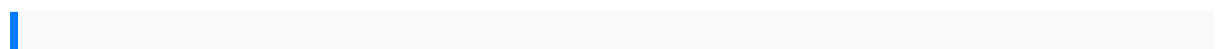
What species is most closely related to Botana curus? The DNA sequence is translated into groups of three nucleotide bases, known as codons, in the protein-coding region of a gene. In a protein, each codon designates a specific amino acid, so plant species Z is most closely related to Botana curus.

How does the amino acid sequence you obtained from the gene fragment for Botana curus compare with the sequences for the other three species? Expert-Verified Answer. The amino acid sequence in protein from the gene fragment for botana curus is the same with species Z that is valine, histidine, leucine, threonine, proline, glutamine and glutamine. Meanwhile, species X and species Y has different amino acid sequence compared to botana curus.

What are the benefits of Botana? “The benefits of using batana oil for hair include its deeply nourishing and moisturizing properties, which can help improve hair strength and elasticity,” explains Dr. Shokeen. “It is also known for its ability to reduce frizz, enhance shine, and support scalp health.”

What is the meaning of botana? noun (México) snack In Mexico, botanas are small portions of food like peanuts, chips, etc. which are served with drinks in bars and on social occasions.

Where did Botana come from? The creator of the Detroit botana, a Mexican-American from Texas, Armando Galan, dreamed up the iconic dish in the kitchen of his restaurant, Armando’s 45 years ago, setting off a food trend that’s endured for generations.



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