

THE VIRTUAL EVOLUTION STICKLEBACK LAB

As you complete each part of the virtual lab, answer the questions below in the space provided.

QUESTIONS

INTRODUCTION

1. Define “model organism.”

Nonhuman animals are known as model organisms, and they are examined in great detail in order to comprehend specific biological phenomena.

2. How do spines protect ocean stickleback fish?

Most oceanic stickleback fish have substantial armor in the form of bony plates and spines that protrude from their pelvis and back. Sticklebacks can simultaneously flare out their three dorsal spines and their pair of pelvic spines in response to threat, making it more difficult for predators to consume them.

3. How did ancestral populations of ocean-dwelling fish come to live in freshwater lakes?

As glaciers receded toward the conclusion of the last ice age, new freshwater lakes were created. Stickleback swimming from the ocean into these lakes found new breeding sites. The land that had been pushed down by the weight of the enormous ice sheets rose as more and more ice melted, cutting off the connections between some of the lakes and the ocean. Stickleback populations may have become stranded in these lakes and adapted to live only in freshwater, according to researchers.

4. Watch the video about pelvic reduction in freshwater stickleback. The loss of stickleback pelvic spines is similar to the loss of which body parts in some other four-legged vertebrates?

Hind Limbs

5. From a researcher’s perspective, what is the benefit of having access to hundreds of postglacial lakes?

The Northern Hemisphere is home to hundreds of postglacial lakes, making it possible for researchers to evaluate characteristics like pelvic shrinkage across a wide range of stickleback populations. Because there are so many lakes, scientists can forecast which environmental factors affect the characteristic.

6. Watch the video with evolutionary biologist Dr. Michael Bell.

Why is the three spine stickleback a model organism for studies in evolution? (List at least two reasons.) Stickleback fish have brief generation periods and are tiny in size. Because of these two qualities, scientists may easily raise them in a lab and use them to study genetics, as they allow researchers to track multiple generations of fish over a short period of time. Furthermore, because stickleback fish populations can be found in a variety of settings across the Northern Hemisphere, researchers are able to compare various populations and examine how they have evolved over time in response to various environmental stresses. Because there are so many stickleback fossils, researchers can compare current populations to their predecessors, which is another reason sticklebacks are good model species for studies in evolution.

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