

Exploring Evolution in the Periwinkle

(Adapted from SimBio Virtual Labs)

OBJECTIVES:

- Apply the principles of natural selection
- Explore factors that affect selection
- Generate testable hypotheses about evolution; practice designing experiments with appropriate controls

INTRODUCTION

The flat perlwinkle, shown at right, is a small snall that lives on seaweeds in the rocky intertidal of New England. The European green crab is one of the snall's top predators. As its name implies, the European green crab is not native to New England; it traveled from Europe sometime in the early 19th century. Before 1900, the green crab was not found north of Cape Cod. Since that time, however, the crab has expanded its range northward, and is now found as far north as Nova Scotia. Thus the perlwinkle snalls of Cape Cod are now exposed to this predator.



Biologist Robin Seeley hypothesized that the New England perlwinkle population had evolved due to predation from green crabs. To test this hypothesis, Seeley obtained a museum's 1871 collection of perlwinkles from Appledore Island, north of Cape Cod. She compared these old shells to new shells she had gathered at

the same place, measuring the thickness of each shell, as shown at right. (In her data, each number represents a single shell without a unit of measure; Seeley plotted her data as a logarithm of thickness, which has been converted here to an integer. Larger numbers indicate a thicker shell.)

SHELLS COLLECTED IN 1982-1984, EIGHTY YEARS AFTER EUROPEAN GREEN CRABS ARRIVED

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SHELLS COLLECTED IN 1871, BEFORE EUROPEAN GREEN CRABS ARRIVED

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Seeley went on to continue her studies of the impact of the European green crab on the periwinkle population in both the field and lab. In this lab exercise, you'll explore some of the methods and findings using a computer simulation.



1982-1984, Crabs Present



Exploring Evolution In The Periwinkle Answers

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