

LAB EXERCISE 8.3.1

Hormonal Control of Metamorphosis

In amphibians, thyroid hormones, thyroxine (T₄) and triiodothyronine (T₃), regulate the rate at which metamorphosis occurs. Metamorphosis is the change that takes place during the development of a postembryonic form, such as a tadpole, into an adult.

Different species of salamanders show variations in metamorphosis (Figure 2). Some salamanders do not metamorphose, retaining the larval characteristics, such as tail and gills, their entire life. They do, however, reach sexual maturity and reproduce—a characteristic of adults.

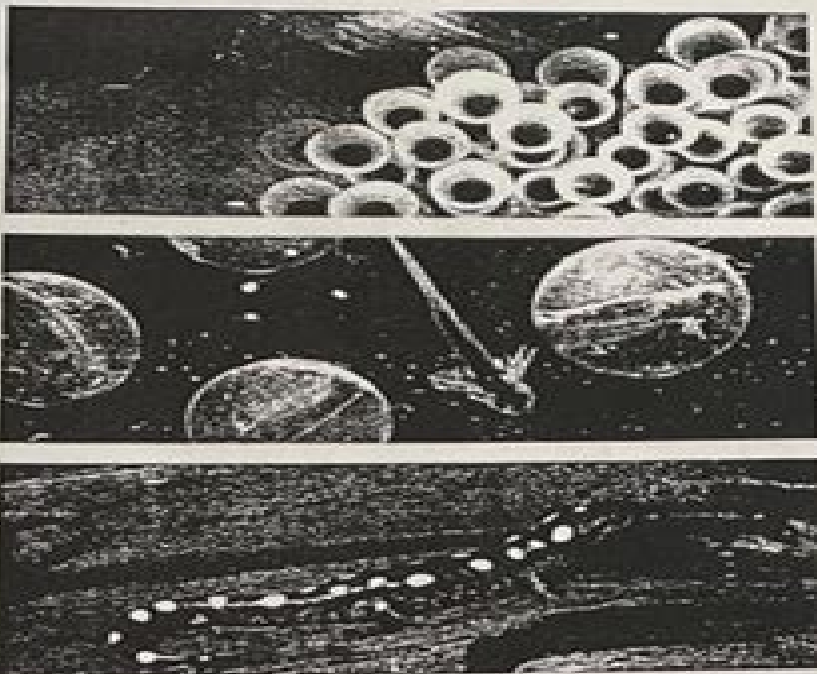


Figure 2
Metamorphosis in a salamander

The variations of 3 species of salamanders are shown in Table 3.

Question

What scientific question could be constructed from the data provided in Table 3?

Learning Objectives

- | | | |
|-----------------|--------------|-----------------|
| • Questioning | ○ Planning | • Analyzing |
| • Hypothesizing | ○ Conducting | ○ Evaluating |
| ○ Predicting | ○ Recording | • Communicating |

Table 3

Type of salamander	Description of metamorphosis
mud puppy (<i>Necturus</i>)	no metamorphosis
Mexican salamander (<i>Ambystoma mexicanum</i>)	no metamorphosis
tiger salamander (<i>Ambystoma tigrinum</i>)	metamorphosis in most habitats, except glacial lakes

Hypothesis

In an attempt to collect more information about these variations in the metamorphosis of salamanders, an examination was conducted, which revealed that all three species have thyroid glands. There are several hypotheses that could be tested to explain why the mud puppy and Mexican salamander do not metamorphose:

- The thyroid glands do not produce enough T₃ or T₄ for metamorphosis to occur in these salamanders.
- The environment does not contain enough iodine for the T₃ or T₄ to be formed.
- The pituitary does not produce enough thyroid-stimulating hormone (TSH).
- The amphibians lack some other substance that is necessary for metamorphosis.

The following experiments were carried out to test these hypotheses.

Procedure I

1. Various concentrations of T₃ and T₄ were given to a large number of different species of *Necturus*.

Observation

No metamorphosis occurred in any of the salamanders.

- (a) Would it have helped at this point to administer either TSH or TRH? Explain.

Procedure II

2. Fifty young frog tadpoles were divided into two equal groups. Group A was given an extract from the pituitary glands of the mud puppy. Group B acted as a control, receiving no extract from the pituitary.

Hormonal Control Of Metamorphosis Lab Exercise Answers

K Morrison



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