

Lab 5: 'Virtual Rat' Endocrine Physiology Exercise

The organs of the body communicate with each other through the nervous and endocrine systems to coordinate their activities. The **nervous system** uses neurotransmitters and neurons to convey information to and from the brain. In contrast, the **endocrine system** uses **hormones**, which are chemical messengers produced by specific tissues in the body, to transmit information. These hormones travel through the **bloodstream** to exert their effects on distant target organs.

In a similar manner, people communicate with each other by using telephones and the postal service. The body's nervous system is comparable to the telephone system because it sends fast, direct messages. The endocrine system is comparable to the postal service because the delivery of the message is slower. Like bulk mail, the message is more diffuse (reaches a greater area) and affects more than one person or organ. Although the hormone travels through the body via the blood, it can only affect those cells with **receptors** for that specific hormone. Hormones are a slower method of communication, but their effects last longer.

Objectives

At the conclusion of this activity, the student will be able to:

1. Describe the relationship between the hypothalamus and the pituitary gland;
2. Describe various hormones and explain their effects and feedback mechanisms;
3. Use small group discussion and analytic thinking to identify an unknown hormone using data from an experimental situation.

VOCABULARY LIST

Hypothalamus
Hormones
Endocrine system
Receptors
TRH
CRH
GnRH
TSH
LH
FSH

GH
ACTH
T3 and T4
Testosterone
Hypophyseal portal system
Negative feedback
Positive feedback
Atrophy
Hypertrophy

This lab will consist of two activities:

1. **Activity 1:** Predict the impact of hormone treatment on the weight of various organs.
2. **Activity 2:** Interpret autopsy data of organ and body weight of control and experimental rats to determine which unknown hormone was used in experimental rats.

Virtual Rat Endocrine Activity Answers

S Ashworth



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