

LABORATORY EXERCISE 19

SKELETAL MUSCLE CONTRACTION

MATERIALS NEEDED

textbook
recording system (kymograph, Physiograph, etc.)
stimulator and connecting wires
live frog
dissecting tray
dissecting instruments
probe for pathing
heavy thread
frog Ringer's solution

For Demonstration A—the Kymograph:

kymograph recording system
electronic stimulator (or induction coil)
frog muscles (from pathed frog)
probe for pathing
dissecting instruments
frog Ringer's solution

For Demonstration B—the Physiograph:

Physiograph
myograph and stand
frog muscle (from pathed frog)
probe for pathing
dissecting instruments
frog Ringer's solution



Virtual Physiology Lab: 5. Frog Muscle

ing systems and stimulated by electrical shocks of varying strength, duration, and frequency. Recordings obtained from such procedures can be used to study the basic characteristics of skeletal muscle contractions.

PURPOSE OF THE EXERCISE

To observe and record the responses of an isolated frog muscle to electrical stimulation of varying strength and frequency.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. make use of a recording system and stimulator to record frog muscle responses to electrical stimulation;
2. determine the threshold level of electrical stimulation in frog muscle;
3. determine the intensity of stimulation needed for maximal muscle contractions;
4. record a single muscle twitch and identify its phases;
5. record the response of a muscle to increasing frequency of stimulation, and identify the patterns of tetanic contraction and fatigue.

DEMONSTRATION A— THE KYMOGRAPH

1. Observe the kymograph and, at the same time, study figure 19.1 to learn the names of its major parts.
2. Note that the kymograph consists of a cylindrical drum around which a sheet of paper is wrapped. The drum is mounted on a motor-driven shaft, and the speed of the motor can be varied. Thus, the drum can be rotated rapidly if rapid physiological events are being recorded or rotated slowly for events that occur more slowly.

A stylus that can mark on the paper is attached to a movable lever, and the lever, in turn, is connected to an isolated muscle. The origin of the muscle is fixed in position by a clamp, and its

SAFETY

- Wear disposable gloves when handling the frogs.
- Dispose of gloves and frogs as instructed.
- Wash your hands before leaving the laboratory.

To study the characteristics of certain physiological events such as muscle contractions, it often is necessary to use a recording device, such as a *kymograph* or a *Physiograph*. These devices are relatively simple to use, and they can provide accurate recordings of various physiological changes.

To observe the phenomenon of skeletal muscle contractions, muscles can be removed from anesthetized frogs. These muscles can be attached to record-

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