

Animal Physiology Collection

Giving students a clear understanding of core concepts



Lt is a cloud-based learning platform that allows you to run labs without headaches.

Our Animal Physiology Collection includes customizable modules, which include a combination of a pre-lab prep and a lab. Combine lessons with our hardware teaching systems and kits to provide a true-to-life, practical learning experience for your students.

Professionally developed lessons

Zoology and Physiology students can investigate basic and applied concepts in neuro and muscle physiology. Courses are designed with common undergraduate insect, annelid, amphibian, and mammalian preparations.

Each media-rich lesson is designed to maximize engagement and suit diverse learning styles, with a strong focus on student outcomes.

Use our lessons off the shelf or tailor any lesson to suit your curriculum and your teaching preferences. Lessons can be grouped, and ordered per your course needs.

"I have 500 students each semester, but my labs run smoother with Lt."

Aura Grandidge, Manager Biology Labs,
Anatomy and Physiology, University of Rhode Island



Improved efficiency



Increased student engagement



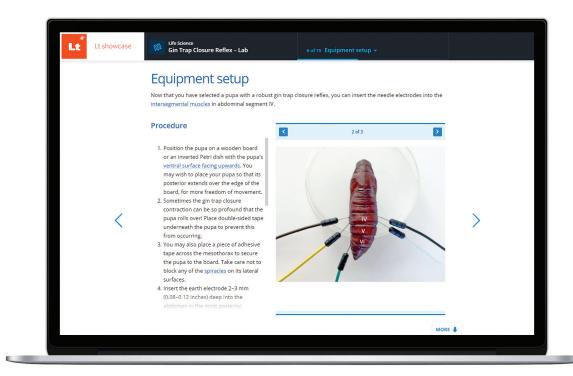
Improved results in theory and clinical practice



Increased student pass rates







Animal Physiology Collection

Cockroach Sensory Nerve

Record CAPs, examine CAP amplitudes and frequency, and identify different "classes" of CAP.

Cockroach Ventral Nerve Cord

Record extracellular action potentials and determine the nerve conduction velocity.

Earthworm Action Potentials

Record extracellular action potentials, examine threshold voltage, 'all-or-none' response, refractory period, and conduction velocity.

Earthworm Smooth Muscle

Investigate the response of smooth muscle to neurotransmitters, temperature, and ions, and measure contraction rate and force.

Frog Heart

Measure the contraction force of cardiac muscle and an ECG to explain the relationship between stretch of cardiac muscle and the force of contraction.

Frog Nerve

Measure CAPs to explore the basic physiological properties of nerve impulses including the threshold, refractory period, and conduction velocity.

11 MODULE COLLECTION

Frog Neuromuscular Junction

Use an isolated frog gastrocnemius with an intact sciatic nerve to explore twitch recruitment, muscle fatigue, and the effects of tubocurarine.

Frog Skeletal Muscle

Investigate twitch recruitment, effects of muscle stretch, summation, tetanus, and fatigue.

Getting Started with Lt

An introduction to data sampling in Lt where students practice recording and analyzing some finger pulse data, and becoming familiar with features of Lt.

Gin Trap Closure Reflex

Record and analyze EMG data from a Manduca sexta pupal preparation.

Intracellular Action Potentials

Use a leech to become familiar with an intracellular amplifier and glass microelectrodes. Record and analyze both resting potentials and action potentials.

"Lt is very easy to use and make lessons myself."

Anuj Bhargava, Physiology,
The University of Auckland, New Zealand



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