



CREATE
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INSPIRE.

Animal Physiology Collection

Giving students a clear understanding of core concepts



Lt is an online learning platform that engages students in active learning in the lab or remotely.

Our Animal Physiology Collection includes 10 customizable modules, each featuring 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 in the lab, or use Lt's pre-recorded example data for remote learning situations.

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.

Use our lessons off-the-shelf or tailor any lesson to suit your curriculum and your teaching preferences.



Improved efficiency



Increased student engagement

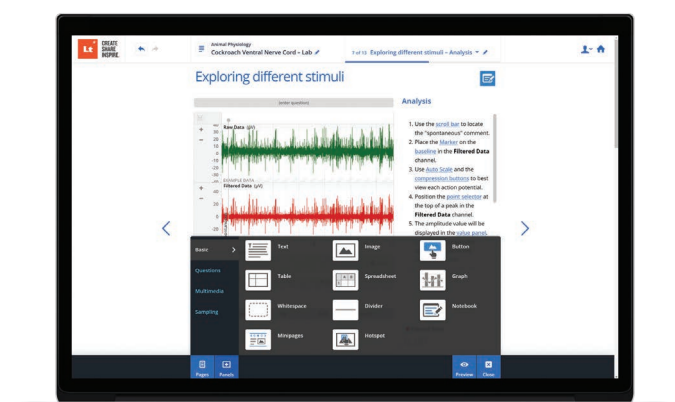


Improved results in theory and clinical practice



Increased student pass rates*

*Results of using Lt at the Otago Polytechnic School of Nursing, 2017

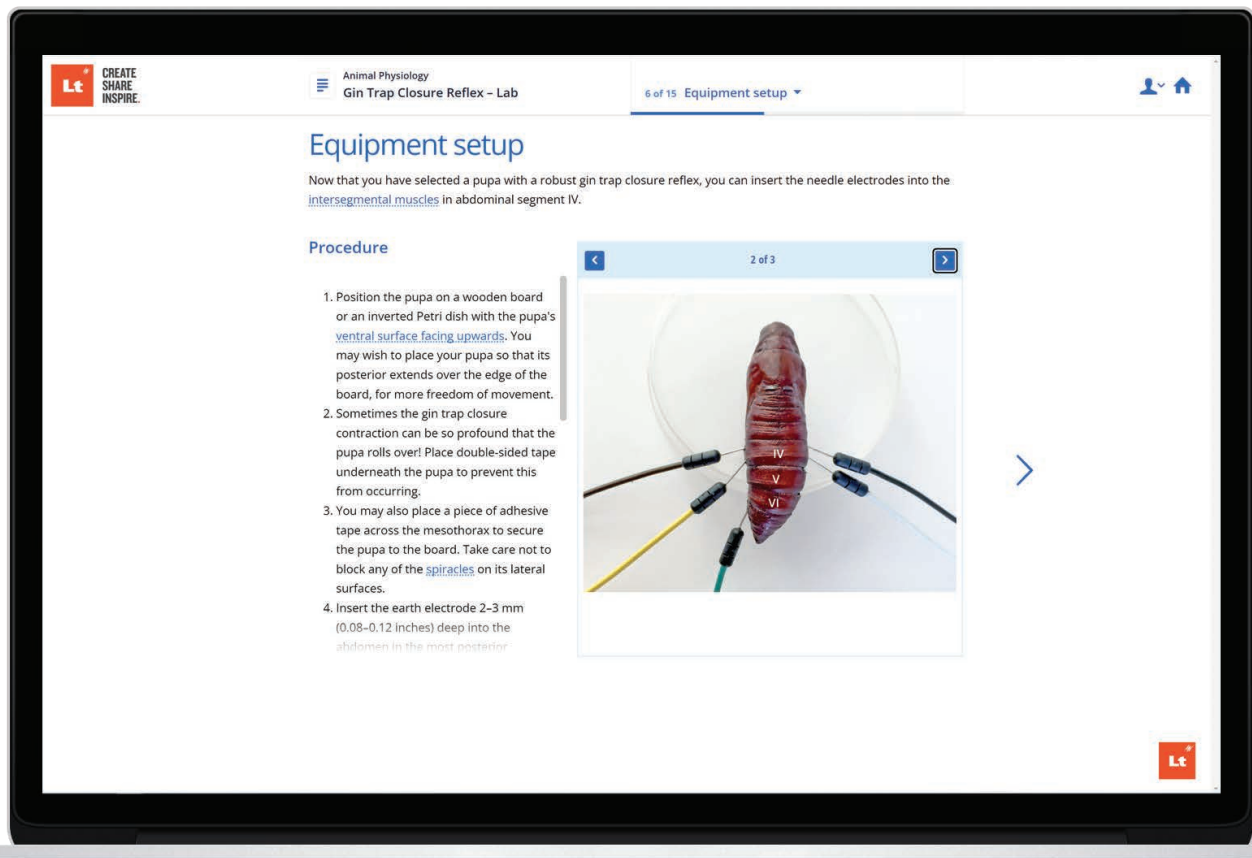


"I have 1000 students each semester, but my labs run smoother with Lt."

Aura Grandidge

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

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Animal Physiology Collection

10 MODULE COLLECTION

Animal Metabolism

Use a Gas Analyzer and PowerLab to record metabolic variables. Determine the metabolic rate and the respiratory exchange ratio (RER), then estimate the respiratory quotient (RQ).

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.

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.

Gin Trap Closure Reflex

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



FREE TRIAL

Sign up now:
adi.to/try_lt

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

Anuj Bhargava

Physiology, The University of Auckland, New Zealand

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