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.

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

- 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
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.

“Lt is very easy to use and make lessons myself.”

Anuj Bhargava
Physiology, The University of Auckland, New Zealand