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Lt Anatomy Collection

Dissection + Histology + Model Anatomy Labs

DEVELOPED IN PARTNERSHIP WITH toltech

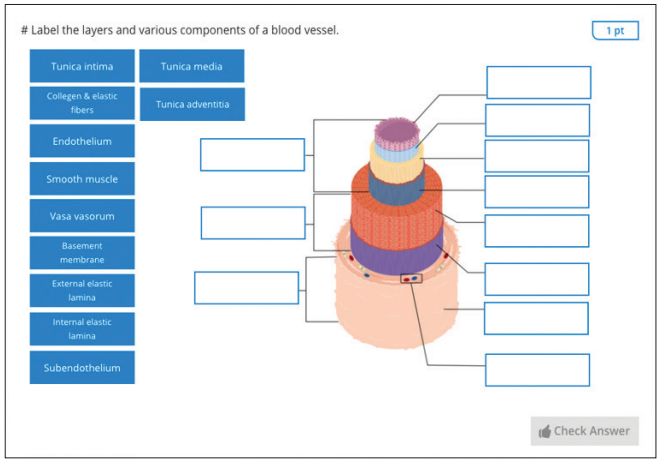
A complete curriculum of ready-to-use lessons for teaching anatomy.

The Lt Anatomy Collection explores tissues and 12 body systems with comprehensive, hands-on labs covering dissection, histology, and model activities, as well as additional background information. These labs provide a diverse and immersive learning experience for your students.

Professionally-developed labs

Developed by our team of instructional designers in partnership with Toltech, the Lt Anatomy Collection is designed to provide the resources for a complete anatomy course. Use the collection off-the-shelf or as a supplement to your existing Anatomy and Physiology course. Each media-rich lab is designed to maximize engagement, with a strong focus on student outcomes.

Students can investigate basic and applied concepts in anatomy using model activities, histological slide observations, dissection and identification activities, human cadaver imagery, as well as exercises to test and grade student learning.



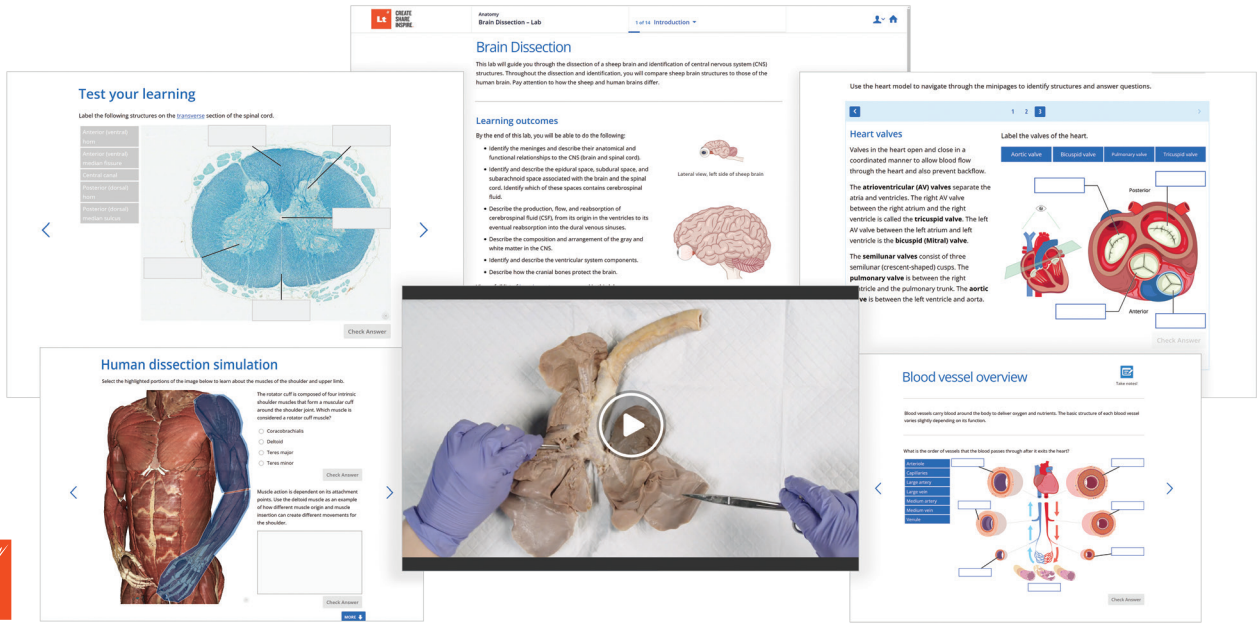
- Improved efficiency
- Increased student engagement
- Improved results in theory and clinical practice
- Increased student pass rates*

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

> *"What I liked about Lt the most as an educator was that it really was an all-in-one approach."*

Assistant Professor
Dr. Bridget Ford,
Department of Biology,
University of the Incarnate Word.

ADINSTRUMENTS



Anatomy Collection Overview

The Lt Anatomy Collection allows educators to develop a high-quality, media-rich, immersive lab experience that facilitates a flipped classroom model. Labs are ready to use as-is, or can supplement traditional methods of teaching anatomy.

Histology and Dissection Media

Cadaveric dissection images and non-cadaveric dissection images and videos help instruct students in the dissection process and can supplement your course when materials are unavailable. Provide an interactive lab experience with histological media to bridge the micro and macro levels of anatomy.

Conceptual Framework of Anatomical Relationships

This collection allows students to conceptualize complex anatomical relationships, link body structures to function, and use a the variety of visual references and interactive resources to develop a full understanding of the anatomy of the human body. All content is aligned with HAPS learning objectives.

Virtual Interactivity with Hands-On Engagement

Throughout every lab is a diverse array of interactive assessments to reinforce student engagement in their learning process. Video and written instructions direct students through in-lab dissections and anatomical model reviews. The ‘Hotspot’ panel reveals interactive histology at multiple levels of magnification, guiding students to focus on specific anatomical layers and structures.

Clinical Relevance

After developing a framework of anatomical relationships, students can test their understanding as it relates to the clinical setting. Dissection labs have a ‘Clinical Integration’ section that tests students’ ability to apply their new learning to a relevant case study.

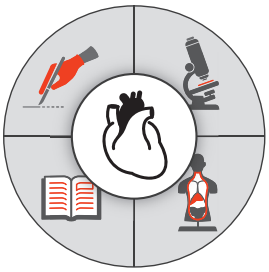
Organ System Modules

Content in the collection is organized by organ system, and each organ system module includes multiple mediums (dissection, model, histology) for teaching anatomy. Instructors can use the collection off-the-shelf, or choose specific dissection, anatomical model, or histology activities, and/or content, to use alongside their existing curriculum.

Student Autonomy

Empower students to take charge of their learning by giving them access to materials usually restricted to the lab setting. Students can review dissections, anatomical models, and histological content outside the lab without the need for lab equipment, while also being able to reference their own lab work and notes as they prepare for lab practicals and exams.

Body Systems and Topics*



Cardiovascular System

Dissection Lab
Perform a sheep heart dissection.

Histology Lab
Examine histological images of blood vessels.

Model Lab
Identify gross anatomy of the heart and circulatory system.

Additional Content
Identify and describe basic anatomy of the cardiovascular system.

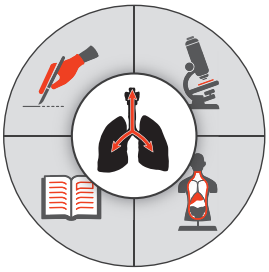
Central Nervous System

Dissection Lab
Perform a sheep brain dissection.

Histology Lab
Examine histological images of neurons and the spinal cord.

Model Lab
Identify gross anatomy of the brain and spinal cord.

Additional Content
Perform cranial nerve assessments, identify and describe basic anatomy of the central nervous system.

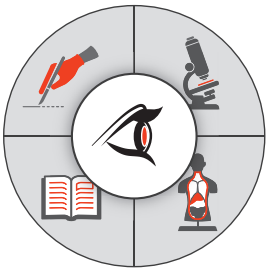


Respiratory System

Dissection Lab
Perform a sheep pluck dissection.

Histology Lab
Examine histological images of the upper and lower respiratory tract.

Model Lab
Identify gross anatomy of the respiratory tract.



Special Senses

Dissection Lab
Perform a cow eye dissection.

Histology Lab
Examine histological images of the vestibulocochlear apparatus.

Model Lab
Examine external and internal features of the ear.

Additional Content
Examine what happens when there are disruptions to the senses, identify and describe anatomy of the special senses.

Digestive System
Perform a fetal pig dissection. Use models to identify internal and external structures in the digestive tract. Examine histological images of the digestive tract.

Urinary System
Perform a pig kidney dissection. Examine histological images of the kidney.

Muscular System
Identify structural and histological characteristics of skeletal, cardiac, and smooth muscle tissue. Use models to identify the nomenclature, location, attachments, and actions of major skeletal muscles.

Skeletal System
Identify structural and histological characteristics of bone and cartilage tissue. Use models to identify bony landmarks and classifications of bones of the axial and appendicular skeleton. Classify the structure and function of joints.

Reproductive System
Identify structural and histological components of the ovo-uterine and testicular reproductive systems.

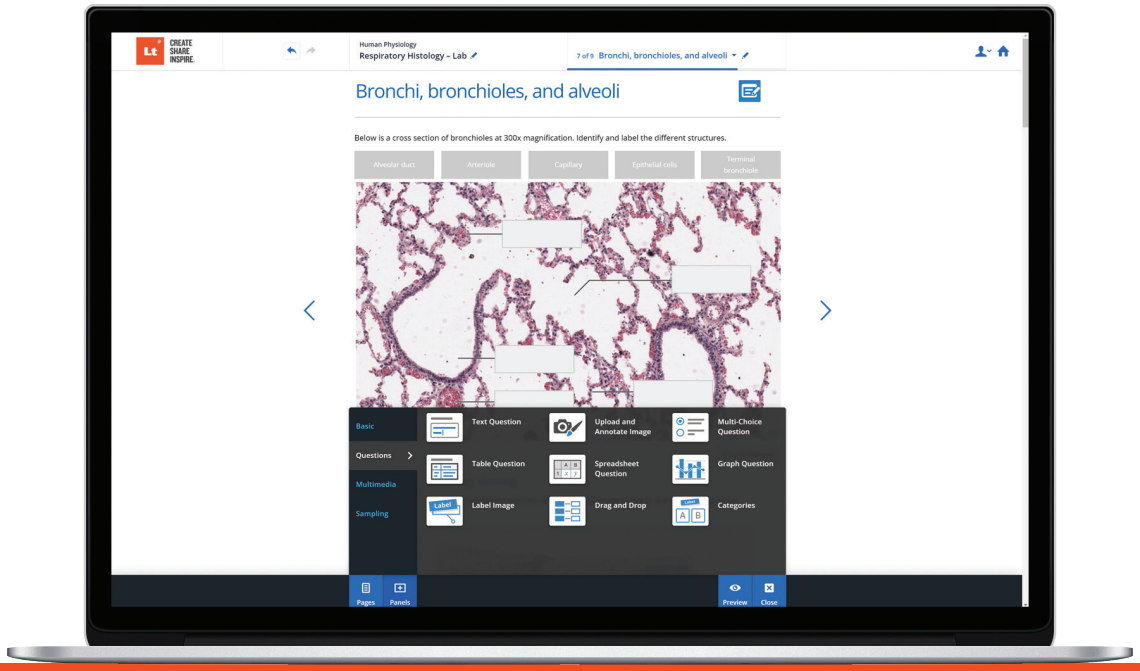
Endocrine System
Identify structural and histological components of endocrine organs.

Integumentary System
Examine histological images of the integumentary system. Describe the general composition and functions of the integumentary system, and accessory organs (hair, nails, exocrine glands) of the integument.

Lymphatic and Immune System
Compare and contrast blood, interstitial fluid, and lymph, and examine lymphatic organs.

Tissues
Examine the function and features of connective tissue and epithelium.

** Some Body Systems and Topics may not include all content components shown here.*



How can Lt help?

Educators

Authoring and customization
Easily edit, share, and update our content or create your own in real time, wherever and whenever you need. Drag-and-drop a range of content types including video, audio, images, quizzes, and text directly into your lessons.

Collaborative
Share content and workload with your fellow educators and teaching assistants. Set varying levels of access to allow others to review content, add content, or publish revisions online.

Flexible grading
Automatically grade quizzes while keeping the flexibility to add feedback and positive reinforcement, and manually grade written assessments.

Supporting your Lt journey
When you sign up to Lt, you become part of our global community of Lt collaborators. We provide you with ongoing support, including a dedicated Customer Success Manager during onboarding and beyond to ensure you're meeting your teaching objectives.

Students

Learn anywhere, anytime
Lt's cloud-based platform means students can learn on almost any device that connects to the internet. Whether they use iOS or Android, tablet, mobile, or laptop, lessons will be resized to suit.

Lt Sensor and PowerLab integration
In the lab, students can record and view their own physiological signals live on screen with Lt Sensors or PowerLab. Sampling panels in Lt can record Pulse, ECG, Respiratory Rate, Blood Pressure, and more.

Learn from real patients
For future heath professionals, our patient cases allow students to follow a real patient from initial presentation to diagnosis and management. Expert health-care professionals provide their views throughout the journey and students can practice note-taking and reflection.

TRY Lt for FREE

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adi.to/try_lt

Administration

Simple setup
Lt needs only an internet browser to allow course administration, authoring, and publishing. Our data acquisition app, used for sampling, installs in 30 seconds.

Analytics
Our analytics allow you to view class progress in each lesson and section in your course, and provide valuable insights about where and how students are interacting with course material.

Secure and scalable
Totally secure, Lt is hosted on Amazon Web Service's encrypted servers with guaranteed 99% uptime and the ability to maintain speed as more students login to Lt.

Future-proof
Lt is automatically updated with new features by our team of engineers, developers, and education specialists.

LMS integration
Lt is certified as Learning Tools Interoperability (LTI) 1.3 compliant, meaning that the platform can seamlessly integrate with a range of LMS.

Visit **adinstruments.com** or contact your local ADInstruments representative for more information