

DEVELOPED
IN PARTNERSHIP
WITH
TOLTECH

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

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

Professionally developed lessons

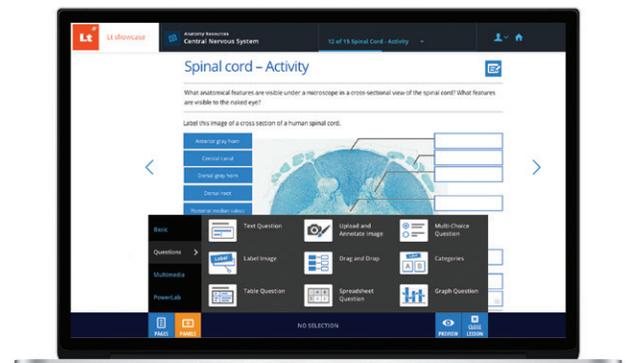
Developed by our team of instructional designers in partnership with TolTech, this collection is designed to provide the resources for a complete anatomy course ready to use off the shelf, or as a modern customizable resource to supplement your existing Anatomy and Physiology course. Each media-rich lesson is designed to maximize engagement and suit diverse learning styles, with a strong focus on student outcomes.

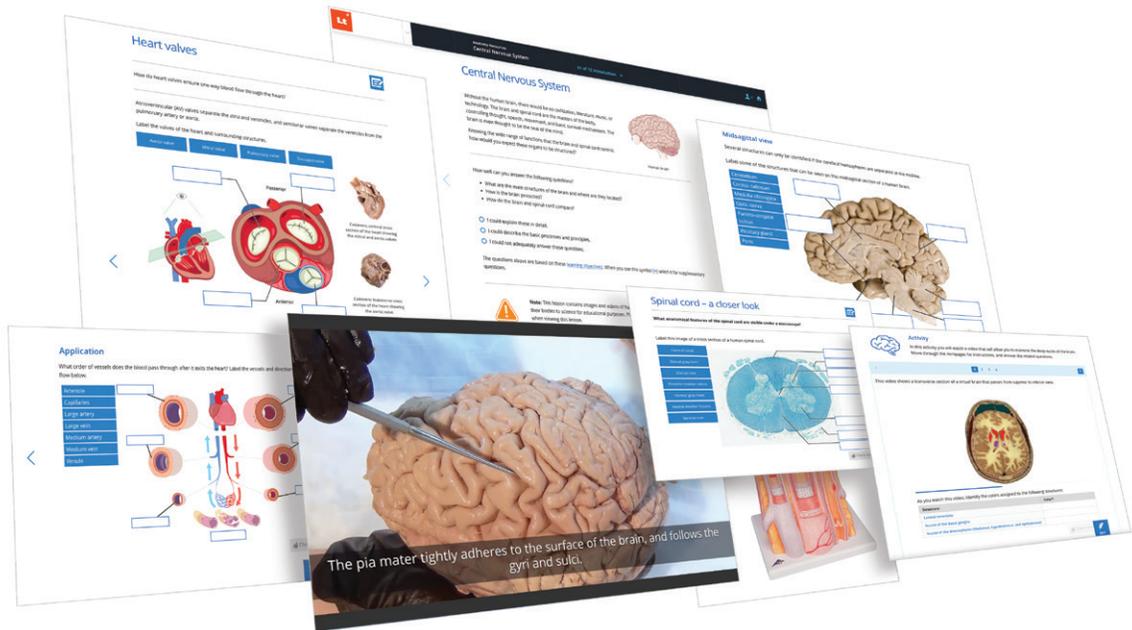
Students can investigate basic and applied concepts in Anatomy using model activities, histological slide observations, dissection and identification activities, human cadaver imagery as well as exercises to test and grade student learning.

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

Aura Grandidge Manager of the Biological Sciences
Undergraduate Anatomy and Physiology Labs,
University of Rhode Island

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





Anatomy Collection Overview

The Lt Anatomy Collection allows educators to develop a high-quality, media-rich immersive lab experience that aligns with a flipped classroom. Lessons 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 imagery and media to bridge the micro and macro levels of learning anatomy.

Conceptual Framework of Anatomical Relationships

This collection allows students to conceptualize complex anatomical relationships, linking body structures to function, and utilizing the variety of visual references and interactive resources to develop a full understanding of the anatomical framework of the human body. All anatomical relationships are aligned with the HAPS learning objectives.

Virtual Interactivity with Hands-On Engagement

Throughout every lab and lesson is a diverse array of interactive assessments to reinforce student engagement in their learning process. Video and written instructions direct students through an in-lab dissection 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.

Collections by Organ System

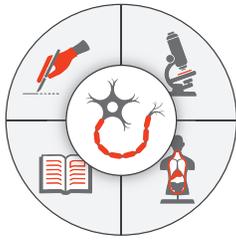
Content in the collection is organized by organ system and includes lessons and labs covering multiple mediums for teaching anatomy. Instructors can use everything included or select from labs and lessons that center around instruction via dissection, anatomical models, histology, and/or content for use in a traditional or flipped classroom. Alternatively, the collection can be used as a supplementary resource for students to access outside of class.

Student Autonomy

Allow 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 of lab equipment, while also being able to reference their own lab work and notes as they prepare for lab practicals and exams.



Example Body Systems and Topics*



Central Nervous System

Dissection Lab

Perform a sheep brain dissection.

Histology Lab

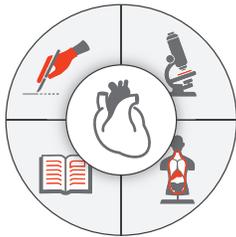
Examine histological images of neurons and the spinal cord.

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.



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.

Gastrointestinal System

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

Urinary/Renal System

Perform a kidney dissection. Examine histological images of the urinary system.

Musculoskeletal System

Examine histological images of bones and cartilage. Compare histological images of the three muscle types and identify skeletal muscles using models.

Reproductive System

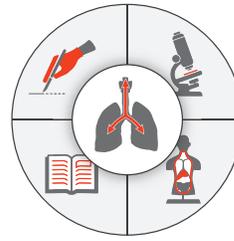
Examine histological images of the ovaries and gonads. Identify gross anatomy of the male and female reproductive system using models.

Endocrine System

Examine histological images of the endocrine system. Integrate knowledge of endocrine organs, hormones, and their effects.

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.



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.

Additional Content

Examine and compare anatomical changes between the upper and lower respiratory tracts.



Special Senses

Dissection Lab

Perform a sheep 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.

Drawing & Identification Guide

The learning outcomes for this page are listed [here](#).

Arterioles



Histology Viewing

Click on the highlighted portion of the histology image below to learn about arterioles.



Arterioles do not have an internal elastic lamina (IEL) or an external elastic lamina (EEL).

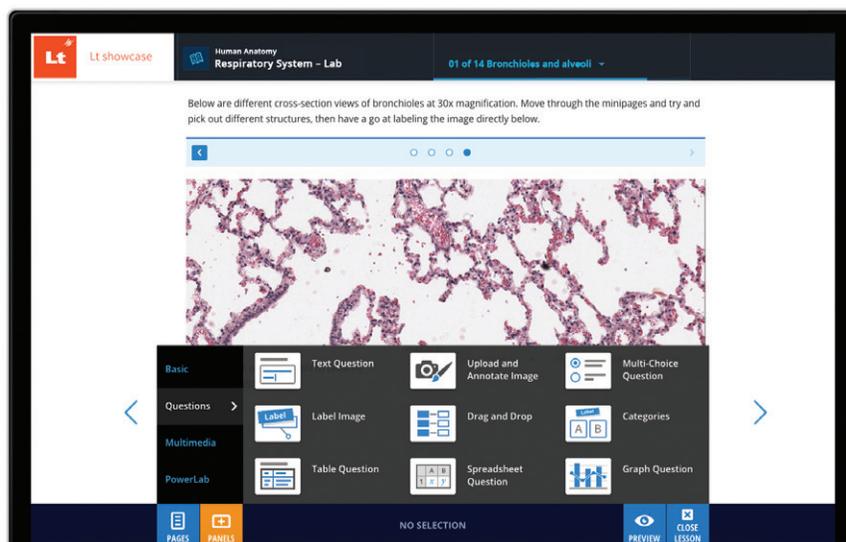
Lymphatic and Immune System

Compare and contrast blood, interstitial fluid, and lymph, examine lymphatic organs. Trace the path of lymph circulation in the body.

Tissues

Examine the function and features of the four main tissue types. Identify examples of each type of tissue.

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



How can Lt help?

Educators

Easy lesson authoring

Building media-rich lessons is simple. Drag-and-drop a range of content types to create interactive exercises, including multiple choice questions, short form written answers and image annotation.

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.

Onboarding

Our Instructional Design team can convert and edit your existing content and lessons to make them even better in 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 across 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.

Students

Learn anywhere

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 and optimized to look great.

PowerLab integration

In the lab, students can record and view their own physiological signals live on screen with PowerLab and sampling panels in Lt that can record Pulse, Spirometry, ECG, Blood Pressure and more.

Learn from real patients

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

Future proof

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

Getting started with Lt

Custom training and specialist support

Whether you need help with Lab installation and setup, IT training, Lt training or specialized support, we can get you up and running even faster with an add-on package of training and support services.



PREVIEW Lt
adstruments.com/lt

Visit our website adstruments.com/education or contact your local ADInstruments representative for more information

ADInstruments Worldwide

Australia | Brazil | Europe | India | Japan | China | Middle East | New Zealand | North America | Pakistan | South America | South East Asia | United Kingdom

USA Tel 719-576-3970 | Fax 719-576-3971 | Toll Free 888-965-6040
 Email info.na@adstruments.com



adstruments.com