



INSTAPATH

JLabs @ Texas Medical Center
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Time and tissue Getting the most out of both can be a challenge for any lab. Sample preparation for traditional histology is laborious and destructive to the tissue, limiting downstream testing and making recuts challenging. In addition, the method of cutting and staining your sample cannot be reproduced exactly as its preparation is dependent on variables such as skill level and technique. The overall process limits how many tests you can run on your tissue. What if there was a more efficient histology method that maximized the utility of your tissue with precision?

Meet **Luci**

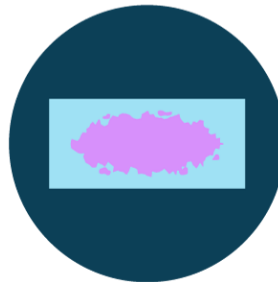
Fluorescence microscopy engineered with the researcher in mind, **Luci helps you get the most out of your tissue.** Without the need for cutting or fixing, **Luci** is your one stop for automated sample preparation and rapid fluorescent imaging.



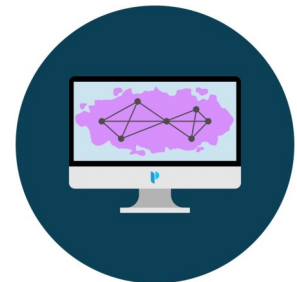
Collect fresh tissue sample



Automated staining and optical sectioning



See whole sample non-destructively



Remote sample evaluation

Image tissue in a variety of states

While **Luci** is optimized for fresh tissue, don't count out your existing tissue blocks. **Luci** is versatile and images frozen and fixed specimens, including FFPE blocks.

Preserve tissue for downstream testing

With **Luci**'s non-destructive optical sectioning and tissue-first staining protocol, the delicate histoarchitecture is preserved for further sectioning and downstream molecular testing.

Next-generation staining and optical sectioning ensures reproducible sample preparation

Quality data begins with quality samples. **Luci** cuts out variables that could affect your research like manual staining and operation of complicated machines like the microtome.

Share sample images and annotations with colleagues anywhere in the world

Luci is ideal for multi-institutional research endeavors. Imagine stepping into your lab, extracting a fresh piece of tissue and within seconds to minutes having an image at subcellular level that you can share with anyone, anywhere. Where would that take your research?

For research use only

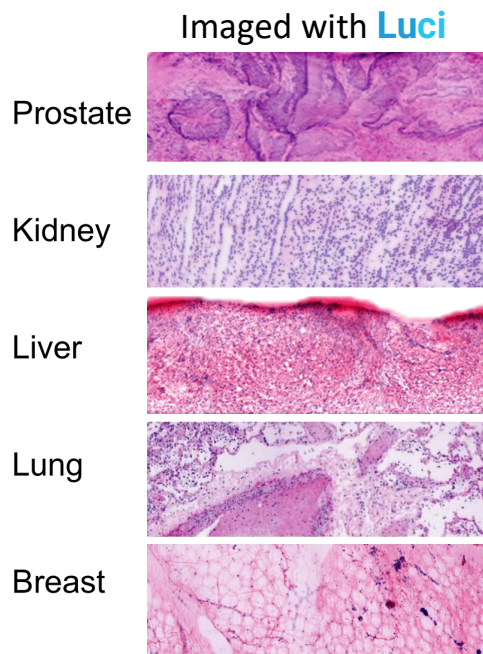
Luci in your lab

Insert fresh, fixed or frozen sample and receive H&E-analogous image within seconds to minutes

- Fast optical sectioning microscopy for 5-200 micron depth
- Unique remote viewing and annotating capabilities
- Non-destructive determination of quality / tumor cellularity

Featured validated applications:

- Biobanking quality control
- Rapid quality assessment of clinical trial biopsies
- Identify tumor regions for cell culture
- Animal model histology



Ask us about our process for imaging other molecules
such as GFP, DAPI, and specific IHC markers

No effect on downstream analyses

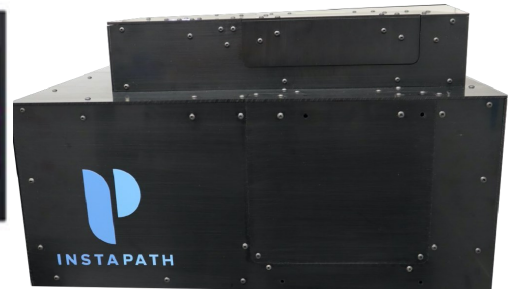
Standard H&E slides
Immunohistochemistry
Genomic sequencing
Molecular testing
RT-PCR measurements
DNA quantification
Gel electrophoresis

Clinical investigations

Over 500 cases demonstrate
~95% concordance with H&E

Specifications

Image speed: 54mm²/min
Optical section thickness: 5-10 µm
Available objectives:
20X .70 NA; 10X .45 NA
Digital resolution: 0.65 µm per pixel
Tissue size compatibility: Core needle /
punch biopsies, cassette sized fragments



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