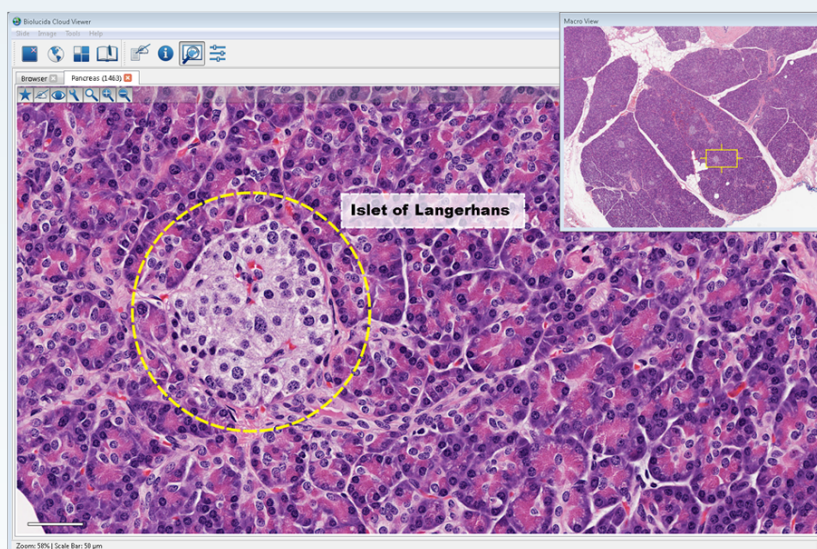


Enrich your medical education course with Biolucida—interactive learning-management software developed in collaboration with leading medical educators. Biolucida takes the concept of virtual microscopy to the next level by providing educators a collaborative platform to manage, display, annotate, and navigate whole-slide and other large microscopy images. Reach more students efficiently by delivering rich, dynamic content accessible by hundreds of users simultaneously. Regardless of class size, Biolucida is the solution for enhancing your medical education course and creating a learning environment where communication thrives.



Benefits of Biolucida

Flexibility

- Accommodate entire classes with hundreds of students
- Teach with slide images acquired from microscopes or slide scanners
- Integrates with educational software such as Blackboard, Moodle, Canvas, or your custom laboratory manuals

Enriched Content

- Give students experience with rare cases and difficult-to-prepare specimens without worrying about breakage or loss
- Add text and mark regions of interest for clear communication
- Link to supplemental material from within slide images

Improved Learning Experience

- Show all students the same image—avoid slide-to-slide variations
- Improve collaboration for study groups and tutoring sessions



FAQs

How does Biolucida work?

Biolucida consists of 3 parts: a server computer, Biolucida server software, and the Biolucida viewer. Together, the server computer and Biolucida server software constitute a virtual central library where your images are maintained and served. Biolucida can integrate into existing IT infrastructure, it can be set up in another location, or it can be hosted in the cloud with Amazon Web Services or Google Cloud.

The Biolucida server software enables educators and students to navigate through large images quickly — there is no waiting for images to download. The software runs behind the scenes and is not visible to users.

The viewer is the software application that instructors and students use to view, access, and share microscopy images. The viewer can run on any computer (PC or Mac) or tablet connected to the internet.

Can I set permissions?

Yes, administrators can set permissions for other users. For example, they can give users access to only a subset of images, or they can restrict users from adding annotations to slide images. Administrators can even lock navigational tools in images so that users cannot pan or zoom through images. This feature is particularly helpful when administering tests.

How large can the files be?

Biolucida efficiently serves very large image files. A typical single image size is 10-50 gigabytes, but Biolucida can easily handle images that exceed terabyte size.

Can I use images acquired with my slide scanner or my confocal microscope?

Yes, Biolucida supports images acquired with slide scanners Huron, Aperio, Leica, Olympus, Zeiss, Hamamatsu, and other companies. It also supports images and image stacks acquired with confocal microscopes from companies such as Zeiss, Olympus, and Leica.

Can I easily compare images?

Yes, it is easy to compare multiple images simultaneously using Biolucida.

Can I focus through 3D images?

Yes, Biolucida supports display of 3D focusable slides created from multiple focal plane scans, or serial sections. It enables users to focus through image planes as if they are focusing with a microscope.

What viewing capabilities do I have?

Easily change magnifications (zoom in and out), pan, and focus. The macro view window displays a low-magnification overview image of your specimen to aid in navigation.

Which computer platforms do you support?

The Biolucida viewer runs on Mac and PC, and the Biolucida server software runs on Windows and Linux. The Biolucida web browser viewer enables viewing slide images on mobile platforms such as iPads.

Download the free Biolucida viewer at biolucida.net/viewer



About MBF Bioscience

A rich history of creating the future of neuroscience.

MBF Bioscience develops advanced tools for collecting and analyzing accurate, reproducible data from histological specimens, 2D and 3D microscope images, and freely moving *C. elegans* so that scientists can better understand brain diseases and processes at a cellular level.

Our products have helped researchers publish over 17,000 peer reviewed papers.

What our customers say

“Biolucida is an amazing platform for using virtual histology in medical education that I have been using to aid my teaching practices for years. The medical students have also shown great interest in your virtual slides and that has helped them achieve better results – findings that I have also published.

Marko Kostovski, Ph.D.
University Ss Cyril and Methodius in Skopje

“We’ve been very happy for many years with MBF products and the course of upgrades and improvements. Your service department is outstanding.

William E. Armstrong, Ph.D.
University of Tennessee

