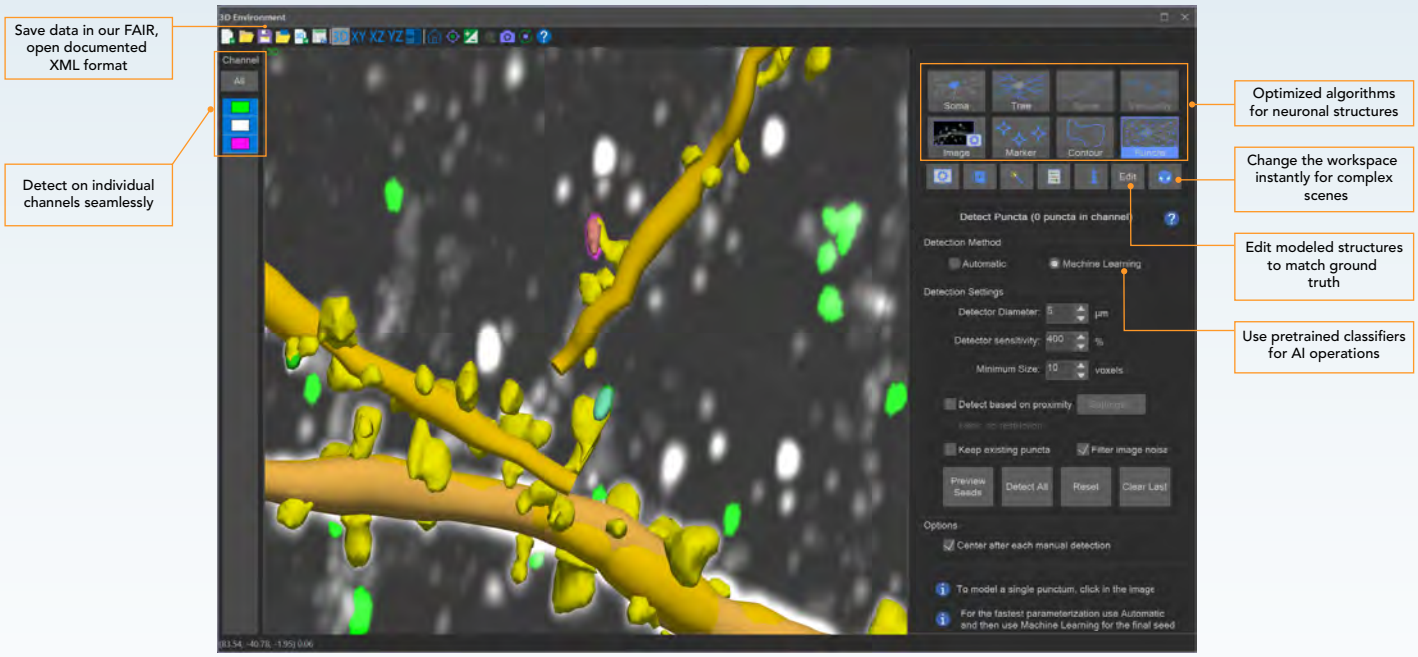
Neurolucida® 360

Accurate, Flexible Neuron Tracing and Quantification

Efficiently reconstruct and quantify complex neuronal morphology from any species in an intuitive 3D workspace



Images of Virtually Any Size in Virtually Any Format

Use the stains and visualization techniques that fit your research paradigm. Microscope images from confocal, two-photon, multichannel fluorescence, and light sheet microscopes are all compatible.

New high-performance image and data handling engines maximize your computer resources and load large complex images up to 5000X faster than ever.

Automatic Neuron Tracing to Your Specifications

- Benefit from easily configured automatic detection tools and intelligent machine-learning algorithms.
- Reconstruct and accurately segment somas, dendrites, spines, axons, varicosities, and synapses; place markers and delineate regions of interest.
- Use fully-automatic, semi-automatic, or manual tracing tools.
- Automatically classify dendritic spines by morphological type.
- Work with large images in manageable chunks, cut planes and partial projections.

Request a free trial: mbfbioscience.com/neurolucida360-free-trial

mbfbioscience.com | 1-802-288-9290 | info@mbfbioscience.com

Neurolucida® Explorer

Turn Your Data into Results

Quantitative Analysis of Data from Neurolucida and Neurolucida 360

Neurolucida Explorer is the analytical software companion included with Neurolucida 360. Use it to perform extensive morphometric analysis on neuron reconstructions, serial section reconstructions, and brain maps.

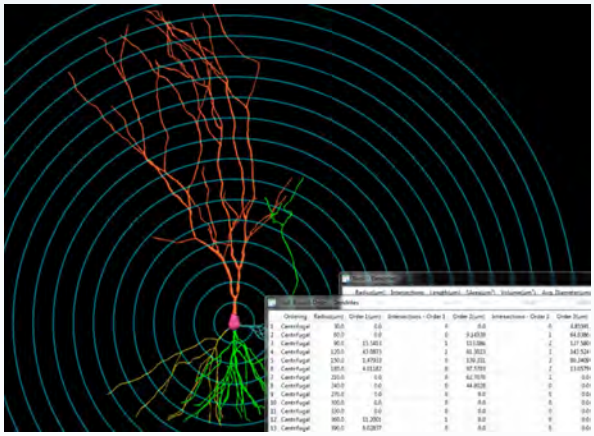
A Mountain of Data without the Data Overload

Find answers in your data and present to others using Neurolucida 360 and Neurolucida Explorer.

- Obtain morphology data that meet FAIR principles (findability, accessibility, interoperability, and reusability) and are compatible with open-science objectives.
- Quantitatively analyze individual neurons, regional interactions, or entire neuronal systems using Neurolucida 360 in conjunction with Neurolucida Explorer (included with your purchase).

Not Just Numbers

Use Neurolucida Explorer to perform dozens of neuroanatomical morphometric analyses to analyze thousands of parameters, for example Sholl analysis, quantifying dendritic length and diameter, visualizing arbor complexities, and many more. Results are displayed in comprehensive quantitative data tables that you can easily export for use in statistical and spreadsheet software. Neurolucida Explorer also generates graphical displays to visualize quantitative results in intuitive ways. These high-quality displays can be easily turned into figures for publications and presentations.



Learn more: mbfbioscience.com/neurolucida-explorer

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 15,000 peer reviewed papers.

What our customers say

> Neurolucida 360 is clearly the best in the field - reliable, accurate, and very importantly, easy and intuitive to use. I would not try any other system.
>
> Jeffrey Kordower, Ph.D.
> Rush Presbyterian Medical Center

> Neurolucida 360 is very useful for doing quantitative analysis of neuronal morphology.
>
> Yun Wang, Ph.D.
> Allen Institute for Brain Sciences

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