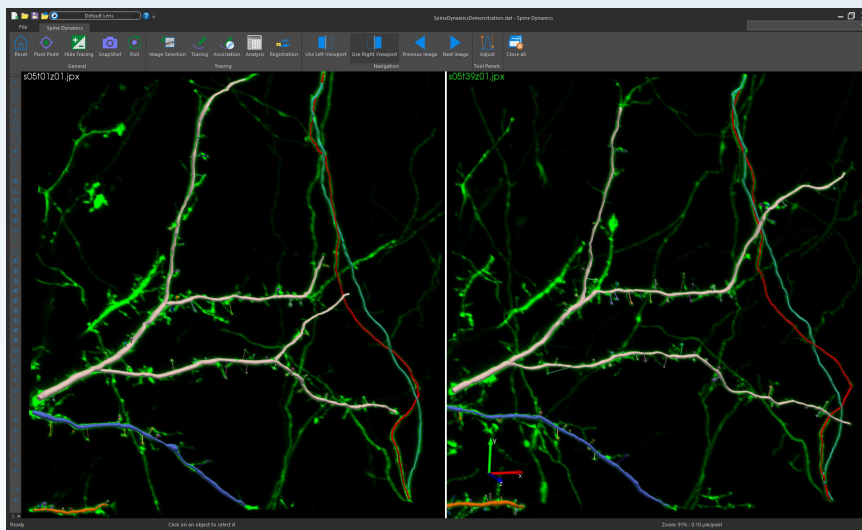
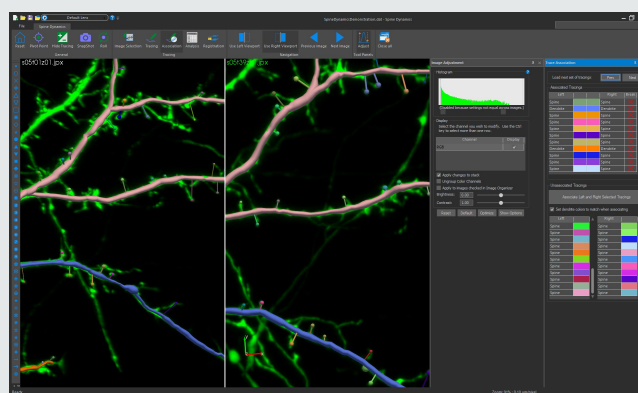


MicroDynamix is a state-of-the-art dendritic spine analysis software application that enables you to visualize and quantify spine morphology over time. Our advanced algorithms precisely align 3D images from repeated imaging sessions in vivo and in vitro, a critical step in order to accurately identify morphological changes over time. The system includes our well known algorithms for automatic dendritic branch and dendritic spine reconstruction along with novel quantitative comparisons.



Side-by-Side 3D Visualization – Know More, Faster

- All images in your study are automatically aligned and managed within a single framework.
- View multiple images from the same location and view any 2 images from your study for side-by-side comparison.
- Automatically reconstruct dendrites and spines in each image. The same spine at different time points is automatically detected and identified for you.
- Update over time: Add more images as your experiment continues over time and keep analyzing as you go.



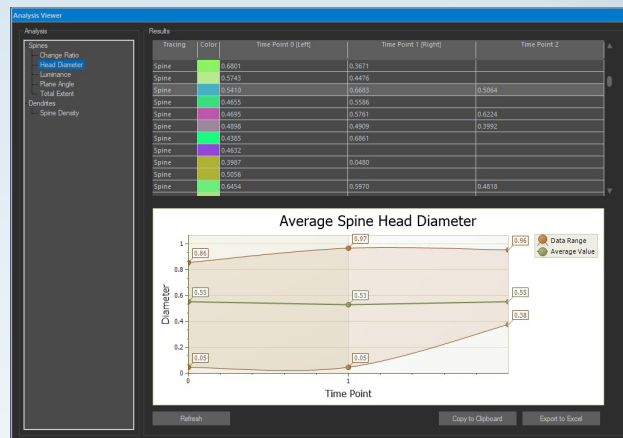
MicroDynamix™



Elucidating and Analyzing Dendritic Spine Changes

Side-by-Side Data Analysis

- Rapidly produce quantifiable, morphometric data for comparisons across all time-points.
- Illuminate key changes easily with customizable graphs and multiple charting options.
- Analyze morphometric changes comparing:
 - Number and density of spines per time point
 - Head diameter, plane angle, luminance
 - Total extent of spine



Intuitive and Fast

- Easy to use, intuitive work flows guide you through the process.
- Fast and accurate results via integrated analysis tools.
- Easily handles big image data with speed and agility utilizing our advanced 3D imaging engine.

Fully Supported

MicroDynamix includes access to extensive online help, as well as our team of expert technical services personnel to assist with you with system operation. In addition, our staff scientists are ready to provide scientific support to your research questions. MBF Bioscience is here to provide support for your lab and help you achieve your research goals.

Learn more: mbfbioscience.com/products/microdynamix



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

“ MBF Bioscience is extremely responsive to the needs of scientists and is genuinely interested in helping all of us in science do the best job we can.

Sigrid Veasey, M.D.
University of Pennsylvania

“ 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