## TissueMaker®

Automatically Align Serial Sections & Visualize an Entire 3D Organ



TissueMaker automatically generates a full resolution 3D reconstruction of any organ or tissue sample from serial sections so that you can easily view cells, structures, and lesions. Simply load serial sections imaged with a whole slide scanner or research microscope, and let the software do the work of automatically aligning and reconstructing them.

TissueMaker is able to read and register sections from whole slide images scanned at any resolution. It is the only solution that can create high-resolution three-dimensional image volumes from whole slide images.

With just a glance, you can locate cells expressing a particular gene or visualize axonal projections of specific neurons with full anatomical context.



Cardiac sections registered and compiled from serial sections using TissueMaker

Use TissueMaker to assist with cell mapping, cytoarchitectonics, and other measures that require visualizing neuronal circuitry to create a comprehensive anatomical references

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Horizontal spinal cord sections were aligned where a subset of corticospinal neurons were labeled by tdTomato. The alignment allowed for evaluation of tdTomato+ CNS axonal collateral distribution through the entire rostro-caudal and dorso-ventral extent of the cervical spinal cord. Image data courtesy of Vibhu Sahni

We offer both a free demonstration and a free trial copy of TissueMaker. During your demonstration, you'll also have the opportunity to talk to us about your hardware, software, or experimental design questions with our team of Ph.D. neuroscientists and experts in microscopy, neuron tracing, and image processing.

Learn more: mbfbioscience.com/products/tissuemaker



## **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

6 6 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

