NeuroInfo®

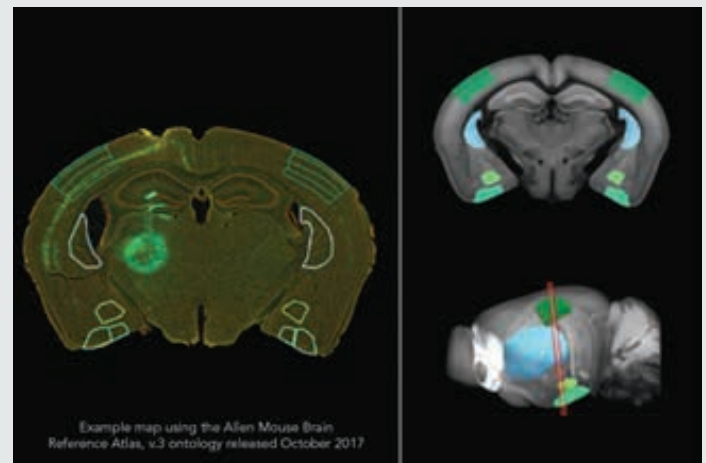## Put your data into a common anatomical reference space

Join the growing group of scientists use NeuroInfo® to standardize and compare findings

Reproducibility is a primary goal in research. But the human effort involved in replicating a research study and its outcomes can be considerable.

NeuroInfo is a revolutionary tool that standardizes brain measurements across studies and laboratories. NeuroInfo registers brain sections in whole slide images to the Allen Mouse Brain Atlas. Once registered, images and subsequent measurements can be cross-referenced with anatomic specificity against findings from other studies. NeuroInfo replaces the tedious manual processes of tracing brain regions and marking cells in experimental images while paging through a printed or on-line reference atlas.
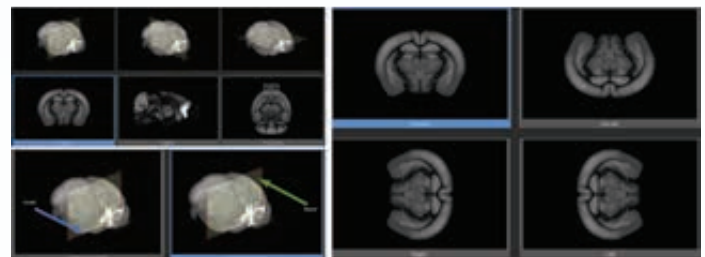
Automates Complex Tasks - From Whole Brain Reconstruction to Cell Detection

- Aligns whole slide images of experimental mouse brain sections to the Allen Mouse Brain Atlas

- Aligns whole slide images of experimental rat brain sections to the Waxholm Rat Brain Atlas

- Delineates anatomical regions in experimental sections

- Detects cells within the anatomical regions. Artificial Intelligence is available for detecting cFos positive and pyramidal neurons

- Tabulates measurements within anatomical regions

- Maps all image measurements to anatomies in a standardized atlas space so that results can be compared across animals, experiments, and laboratories

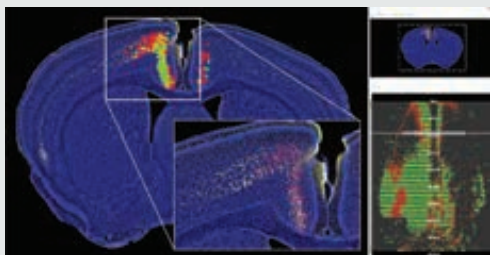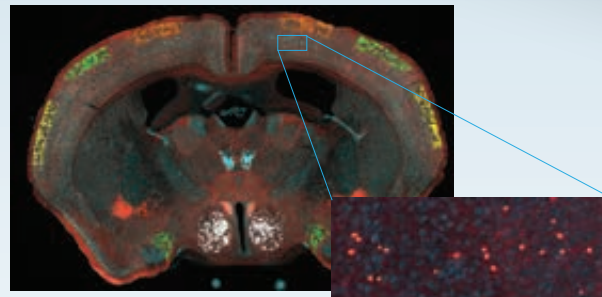Example map using the Allen Mouse Brain Reference Atlas, v.3 ontology released October 2017

Use Any Type of Sections

- Use sections cut in any orientation (e.g., coronal, sagittal or horizontal)

- Automatically accommodates differences in histological processing between laboratories

- Works with whole slide images from virtually all commercial slide scanners

NeuroInfo®

Put your data into a common anatomical reference space

NeuroInfo utilizes the most advanced registration technology to put all of your measurements into a common reference space.

Any measurement made can be objectively compared across animals, cohorts, experiments, and laboratories. Cell counts and contours can be mapped to Allen Mouse Brain Atlas or Waxholm Rat Brain Atlas coordinates and be tallied by brain region.

NeuroInfo Can Also Include Our BrainMaker® Technology

- Generate full-resolution 3D whole brain volumes from 2D whole slide images
- Visualize the entire brain to see neuronal pathways, cell distributions, vascular patterns, and additional features
- Designed for big image data that results from scanning entire brain series at high resolution

Advanced Cell Detection Algorithms

- Automatically detect cells throughout the brain or in specific regions using NeuroInfo's unique cell detection that optionally uses AI for detecting cFos positive cells and pyramidal neurons
- Detect, view, and record locations of millions of cells in a brain
- Works in multi-channel fluorescence or brightfield images

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

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

"The NeuroInfo software is so good. It compensates for students' inexperience. They always lay down sections in the wrong order and have trouble recognizing the anatomy. This solves that problem.

Hermina Nedelescu, Ph.D.
Scripps Research

"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

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