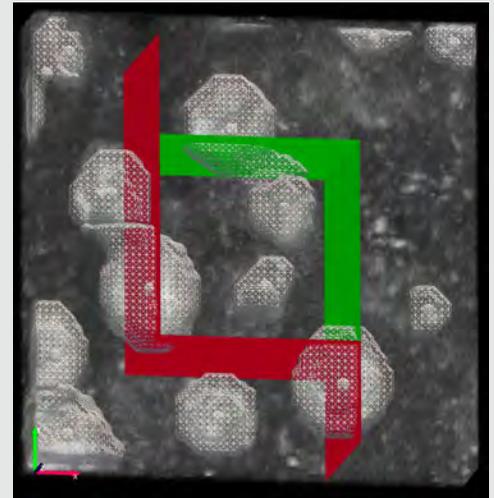


Cellairus is the first software to perform automatic, accurate, unbiased, high-throughput 3D cell quantification in histological specimens.

Unbiased stereology is recognized as the gold standard for accurate quantification. It is a rigorous methodology for quantifying features in biological specimens, such as the size, shape, distribution, and quantity of objects. The one drawback to conventional stereology approaches is the time and manual effort required. Until now, stereology has required manual counting/measuring processes.

Cellairus transforms the manual process in stereology through the use of state-of-the-art machine learning to automate the most widely used unbiased stereological probe, the optical fractionator. Integrated with a sophisticated framework that employs unbiased stereological sampling and counting rules, Cellairus offers:

- Much faster results than hands-on stereology—our testing indicates that a typical study is up to 35 times faster than manual stereology
- Unbiased and more accurate data than other 3D detection methods



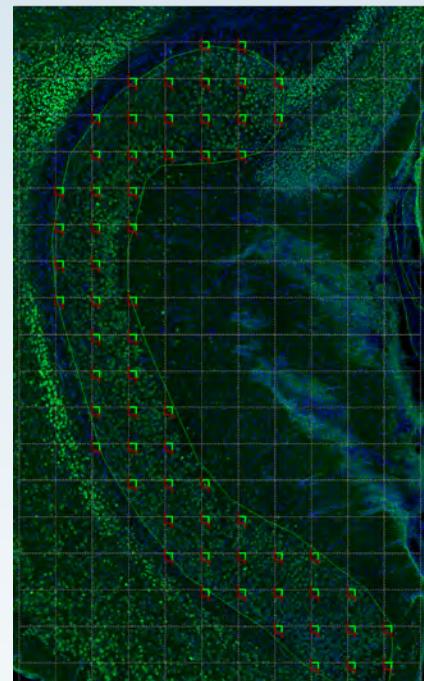
Cellairus takes advantage of the high-resolution image data from modern research microscopy systems to perform fast, accurate analysis of cell number in fluorescent tissue sections.

- Delineate anatomical regions-of-interest for analysis
- Use deep learning/machine learning algorithms to automatically count cells
- Work with single or multi-channel images for sophisticated co-localization analysis
- Compute the results and coefficients of error using established stereological formulae



Cellairus also includes comprehensive data-auditing capabilities.

- Visually inspect the results using a dynamic 3D visualization environment
- Manually validate any of the automatically generated results
- Archive your image data and results in an easy-to-access digital format for review at a later time, even years later



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Learn more at : mbfbioscience.com/products/cellairus



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

