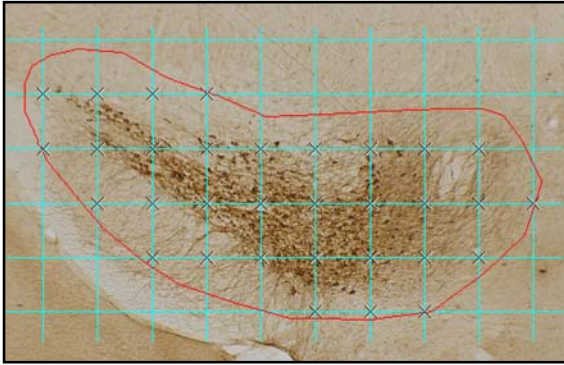
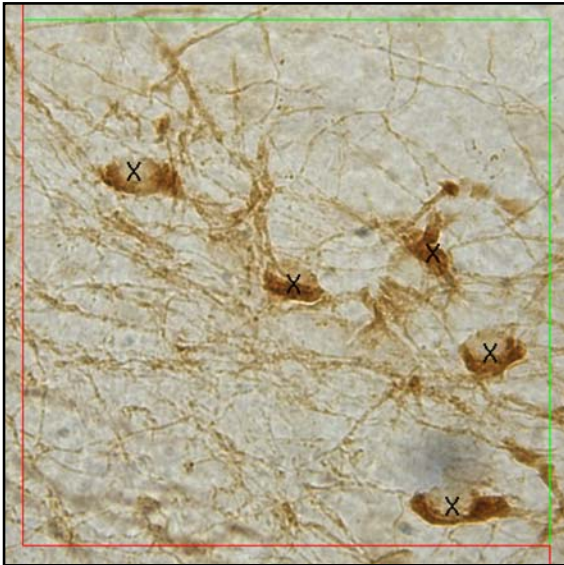




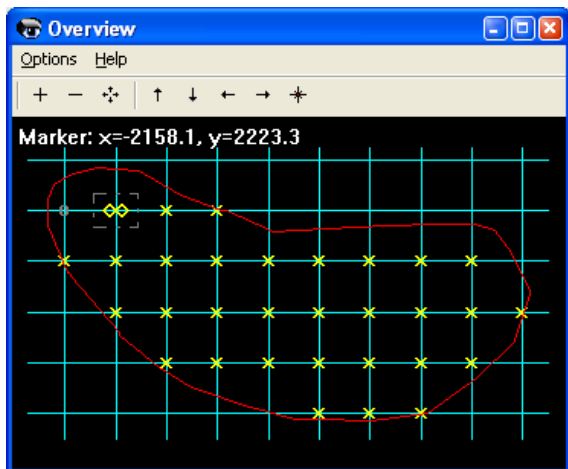
BIOQUANT Stereology Toolkit Plug-in



Either on a montage or at low magnification, the sampling area is traced, the grid is laid out, and sampling locations are marked.



At higher magnification the counting frame is drawn on the live image making it easy to count neurons within the counting space.



The Overview window shows progress through the section. Clicking a sampling point on the map either drives the motorized stage to that location or displays coordinates for manual measuring stages.

The BIOQUANT Stereology Toolkit plug-in for BIOQUANT Life Science provides an reliable set of tools for the stereologic estimation of number, length, surface area, and volume.

Use Reliable Estimation Methods

Cell Number Estimates

are made using the Optical Fractionator, Optical Disector, or Physical Disector.

Total Length or Surface Area Estimates

are made with cycloid curves or weighted line patterns on vertical or IUR sections.

Reference Volume Estimates

are made using the Cavalieri method.

Mean Cell Volume Estimates

are made using the Rotator or Nucleator probes on vertical or IUR sections.

Error Estimation

is built-in and revised as needed for optical fractionator estimates of cell number. All raw data can be exported to allow for custom error estimation methods.

Increase Efficiency

Simple Data Management

using project templates makes it easy to begin work and keep track of projects.

Calibrated Sampling Area Montage

combines images from adjacent fields of view to create a single image of the entire sampling area (e.g. brain nucleus) in the Image window, making it simple to accurately draw the sampling area boundary. The BIOQUANT Imaging Toolkit Plug-in is required for this feature.

Grid Wizard

automatically generates sampling grids bounded by the sampling area.

Overview Window

displays a complete map of the sampling area showing the sampling area boundary, the sampling grid, and sampling locations. This window controls a motorized stage, moving it quickly among sampling locations.

Probe Overlay on Live Digital Image

draws probes such as optical disector counting frames and cycloid curves on a live digital image of the section. Thus, probes can be focused quickly through the tissue.

2X Optical Zoom for Cell Counting

gives you the most resolution from your QIMAGING digital camera so cellular identification is easy.

Motorized Stages or Manual Measuring Stages

allow quick travel to sampling locations. Manual stages are ideal for limited budgets.

Counting Space Wizard

adjusts the vertical positioning of counting spaces to account for fluctuations in tissue position and gives visual and auditory warning when the focal plane passes out of the space.

Report Data Clearly

Optical Fractionator Project

provides data management and export tools. Publishes a report of all animals in a group to Excel with estimates of N and estimates of the CE as well as raw data.

Complete Audit Trail

records sampling area contours, sampling grids, cell count and intersection count markers so that data can be easily audited. Invalid data can be recollected and all estimations updated automatically.