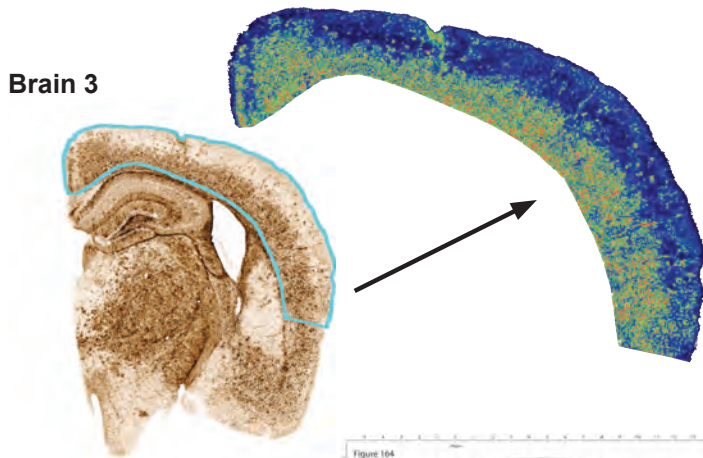
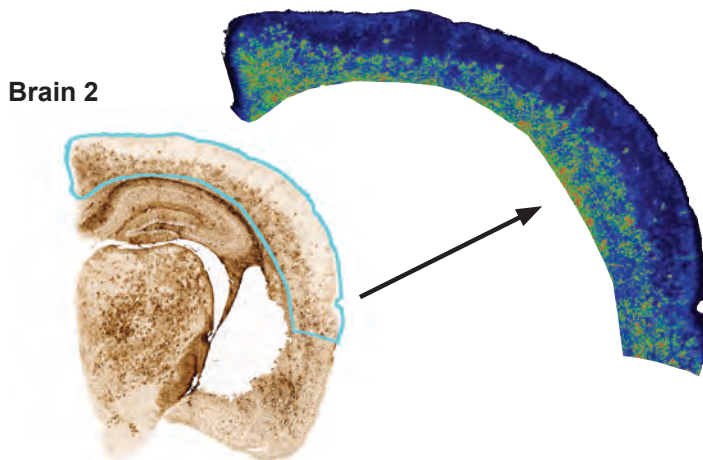
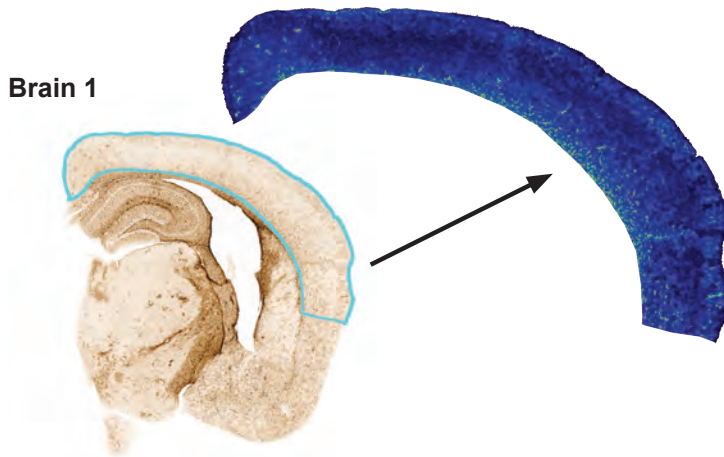


NSA SERVICES: IMAGE ANALYSIS

INTENSITY OF STAINING



To further reduce technical variance, expert NSA neuroanatomists ensure consistent regions of interest (AOI/ROI).



Neuroscience Associates has the capability to quantify antibody staining on tissue processed at our facilities. An example of GFAP quantification in mouse cortex is shown to the left, with corresponding data below.

A specific area of interest (AOI/ROI) is delineated followed by image processing steps to make the area more amenable for quantification. In this example, the total amount of GFAP staining can be measured as both percent area occupied of AOI/ROI and total area occupied in appropriate units (millimeters squared for example).

Due to the gradation of light to more intense staining, the total GFAP staining can be further divided into medium (shown as green) and high (shown as red) intensity staining totals in the given AOI/ROI. These can be measured as percent area occupied of the AOI/ROI or total area of medium or high intensity staining.

