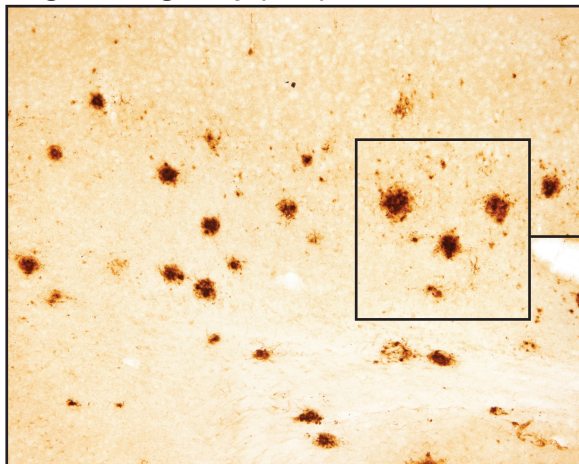# NSA SERVICES: IMAGE ANALYSIS
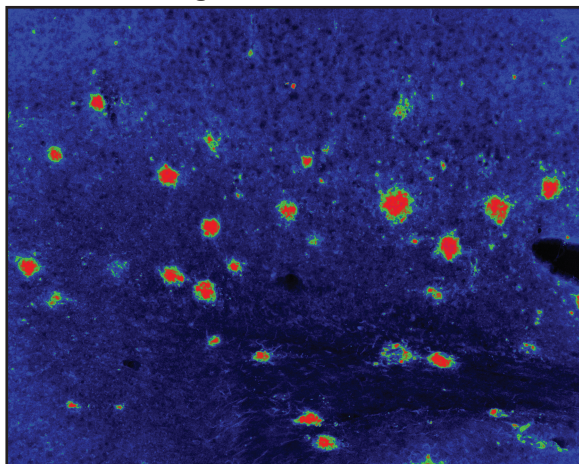
ALZHEIMER DISEASE PLAQUE QUANTIFICATION
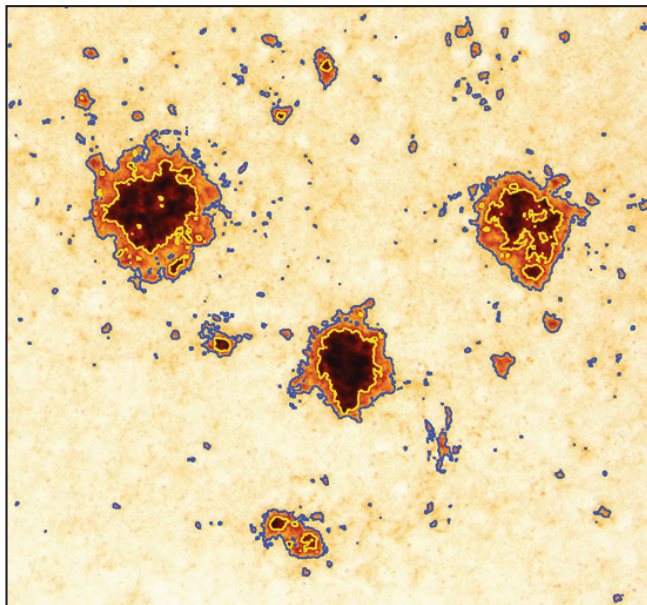
Original Image: A-β (1-42)
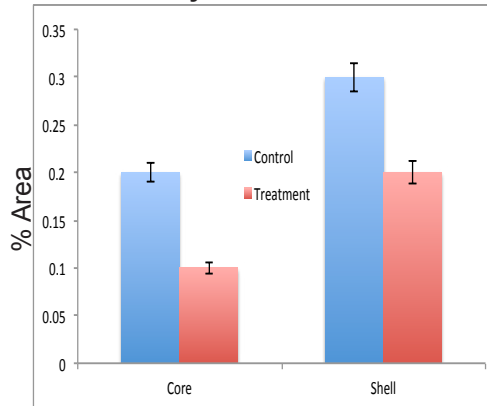

Processed image:

Segmented original:

Densitometry Results

Densitometric parameters may include:

1. Total number of plaques
2. (%) Area occupied by plaques
3. Binning by staining intensity/gradient
4. Binning by size class category

Stains amenable to quantification currently include Campbell-Switzer Alzheimer stain, A-ß(1-40), and A-ß(1-42).

Method: The original image (top) is processed to a false-color representation of the plaques (middle) for aggregate segmentation (bottom).

Using the gradation in staining intensity (green to red in the false color image), individual plaques are outlined (blue outline), and the plaque core may be isolated separately (yellow outline).

Lower Variance, Increased Confidence
MultiBrain® processing minimizes technical variance, thereby increasing your ability to detect treatment or biological effects.