Laminae Segmentation

1. Segment hippocampal laminae based on VGLUT1 staining.

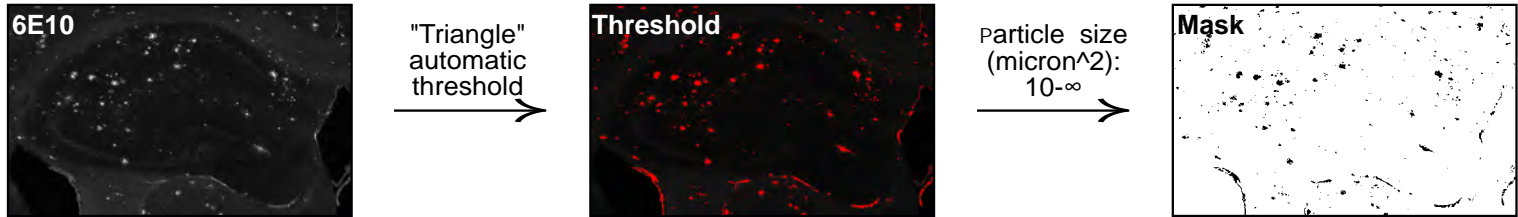VGLUT1 — Threshold & automatic layer selection → Threshold — Manual layer selection →

Subfield Refinement

2. Refine CA1 & CA2/3 hippocampal subfields based on WFS1 staining.

WFS1 → → ROI
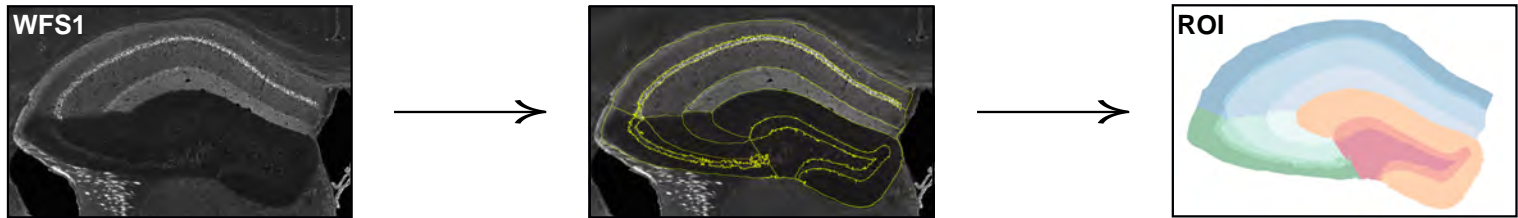
Aβ Plaque Mask Creation

3. Create mask for Aβ plaques based on 6E10 staining.

6E10 — "Triangle" automatic threshold → Threshold — Particle size (micron^2): 10-∞ → Mask

Aβ Plaque Quantification

4. Combine ROIs for layers and subfields with mask for amyloid plaques and quantify plaque load.

ROI + Mask → Mask on ROI