

A

Mouse

✕ Sampling points (F(t))

Guinea Pig

- Start (1st d^2F/dt^2 max)
- Upstroke (df/dt max)
- Depolarisation Midpoint (50%)
- ✕ Peak
- Downstroke (df/dt min)
- 80% Repolarisation
- End (2nd d^2F/dt^2 max)

F(t)
15 ms

df/dt

d²f/dt²

20 ms

B

Mouse Settings

Guinea Pig Settings

Image Processing options

Framerate: 0.987 kHz (x 1000 frames/s)

Pixel Size: 71.4 μ m

Threshold: Auto

☐ Crop Image ☐ Custom ROI ☐ Remove Frames

Image Processing options

Framerate: 0.5 kHz (x 1000 frames/s)

Pixel Size: 320 μ m

Threshold: Auto

☐ Crop Image ☒ Custom ROI ☐ Remove Frames

Signal Processing options

Baseline: Top-Hat (av...) Top Hat Length: 100

Filtering: None

Min Peak Distance: 50 ms Peak Threshold: 0.4

Min Number of Peaks: 1 Minimum Boundary: 20 ms

Timeframe: before: 20 after: 60 ms

APD Baseline: First 10 ms

APD Start Time: Max Upstroke Duration: 50

Activation measure: Depolarisation... ☒ Invert Data?

Tau Fit: 30 to 90 r2 cut off: 0

Signal Processing options

Baseline: Top-Hat (av...) Top Hat Length: 200

Filtering: None

Min Peak Distance: 50 ms Peak Threshold: 0.4

Min Number of Peaks: 1 Minimum Boundary: 20 ms

Timeframe: before: 50 after: 150 ms

APD Baseline: First 10 ms

APD Start Time: Max Upstroke Duration: 50

Activation measure: Depolarisation... ☒ Invert Data?

Tau Fit: 30 to 90 r2 cut off: 0