Figure S1 В A **PYR FFIN** $gmax_{Na} = 0.5 \text{ S/cm}^2$, $E_{Na} = 50 \text{ mV}$ $gmax_{Na} = 0.05 \text{ S/cm}^2$, $E_{Na} = 55 \text{ mV}$ 85 µm $gmax_K = 0.06 \text{ S/cm}^2$, $E_K = -85 \text{ mV}$ $gmax_K = 0.015 \text{ S/cm}^2$, $E_K = -90 \text{ mV}$ gmax_{Leak} = 0.003 S/cm², E_{Leak} = -75 mV $gmax_{Leak} = 0.000048 \text{ S/cm}^2$, $E_{Leak} = -72 \text{ mV}$ $85 \mu m$ 100 µm **FBIN** mm 89 $gmax_{Na} = 0.05 \text{ S/cm}^2$, $E_{Na} = 55 \text{ mV}$ $gmax_K = 0.01 \text{ S/cm}^2$, $E_K = -90 \text{ mV}$

68 μm

29 µm

 $gmax_{Leak} = 0.00014 \text{ S/cm}^2$, $E_{Leak} = -78 \text{ mV}$