current input from CA3 1000 PV int I (pA) 500 pyr cell 1.32 1.34 1.3 1.31 1.33 1.35 1.36 1.37 1.38 1.39 1000 cell# 500 1.34 1.3 1.31 1.32 1.33 1.35 1.36 1.38 1.39 1.37 **LFP** 300 200 **20** V (uV) V (uV) 100 0 -100

top: Cells exhibit different input resistances as a function of size, such that larger cells respond with smaller voltage changes to the same input current amplitude as a smaller cell. To account for this when both interneurons and pyramidal cells are modeled as points, the current inputs are re-scaled.

1.34

!"#\$%&'\$()

1.36

1.38

colors bottom panel should be black and dark grey

1.4

middle: Rastergram of all pyramidal cells (black) and PV interneurons (red). Each cross represents an action potential.

1.32

bottom: Raw (blue) and filtered (band-pass: 50-350 Hz, red) LFP.

1.3

1.28