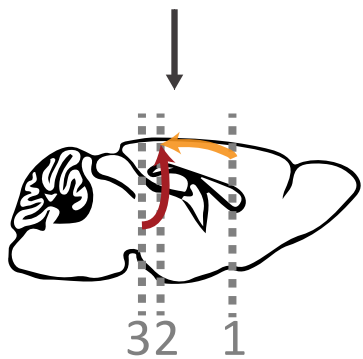


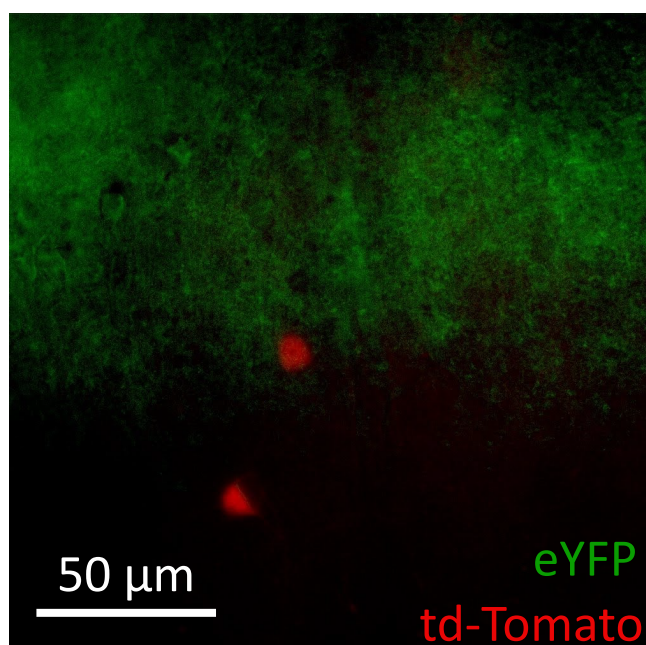
A

3-4 week-old mice:
SOM-tdTomato
or
PV-tdTomato



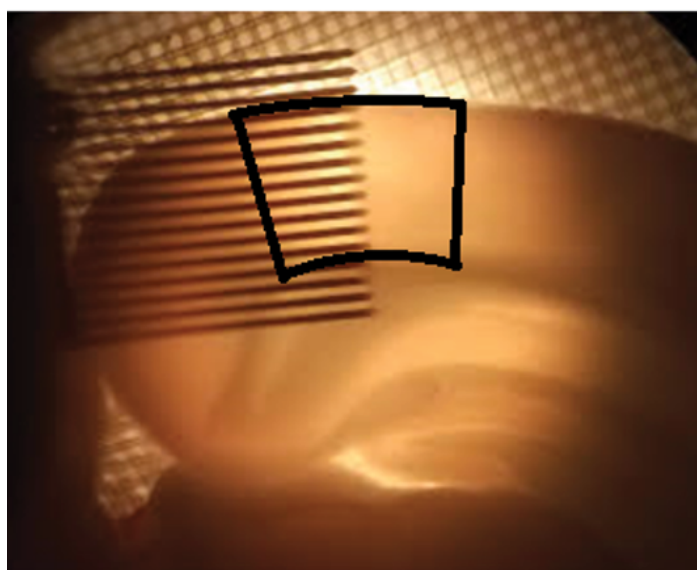
Inject channelrhodopsin*
in cingulate cortex (1) or
posterior thalamus (3).

C



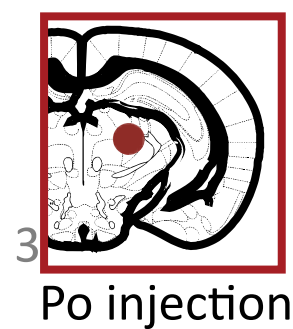
ChR2-expressing axon terminals
and td-Tomato-labelled
interneurons fluoresce.

E

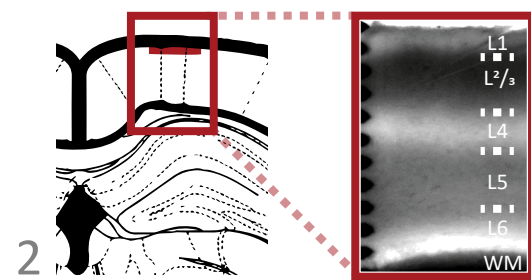


Insert 16x1 extracellular probe
spanning cortical column.

B

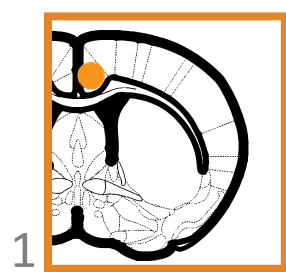


Po injection

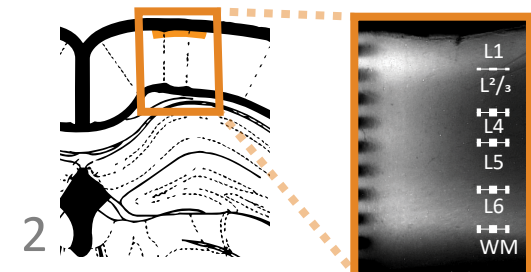


Thalamocortical
afferents

Express ChR2/eYFP in
coronal slice in mPtA.

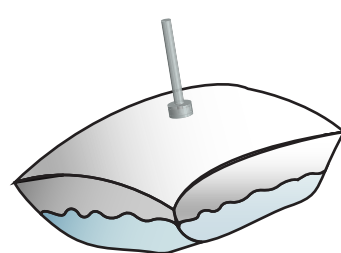


Cg injection



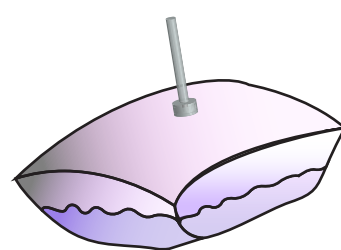
Corticocortical
afferents

D



CONTROL

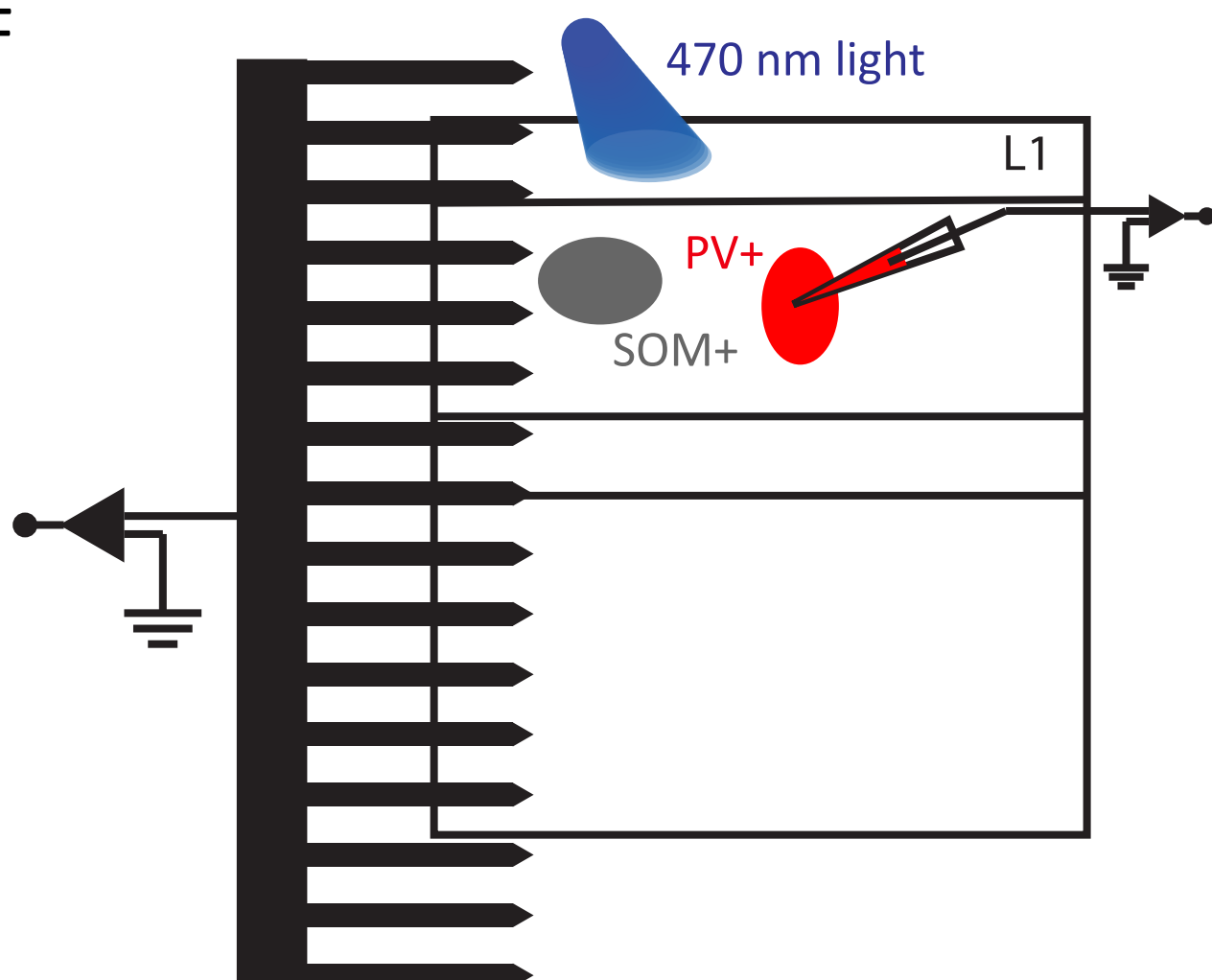
ACSF (600 mL)
+
95% O₂/5% CO₂ (600 mL)



ISOFLURANE
(0.28 mM)

ACSF (300 mL)
+
95% O₂/5% CO₂ (175 mL)
+ isoflurane (125 mL)

F



Collect simultaneous extra- and
intracellular recordings.