

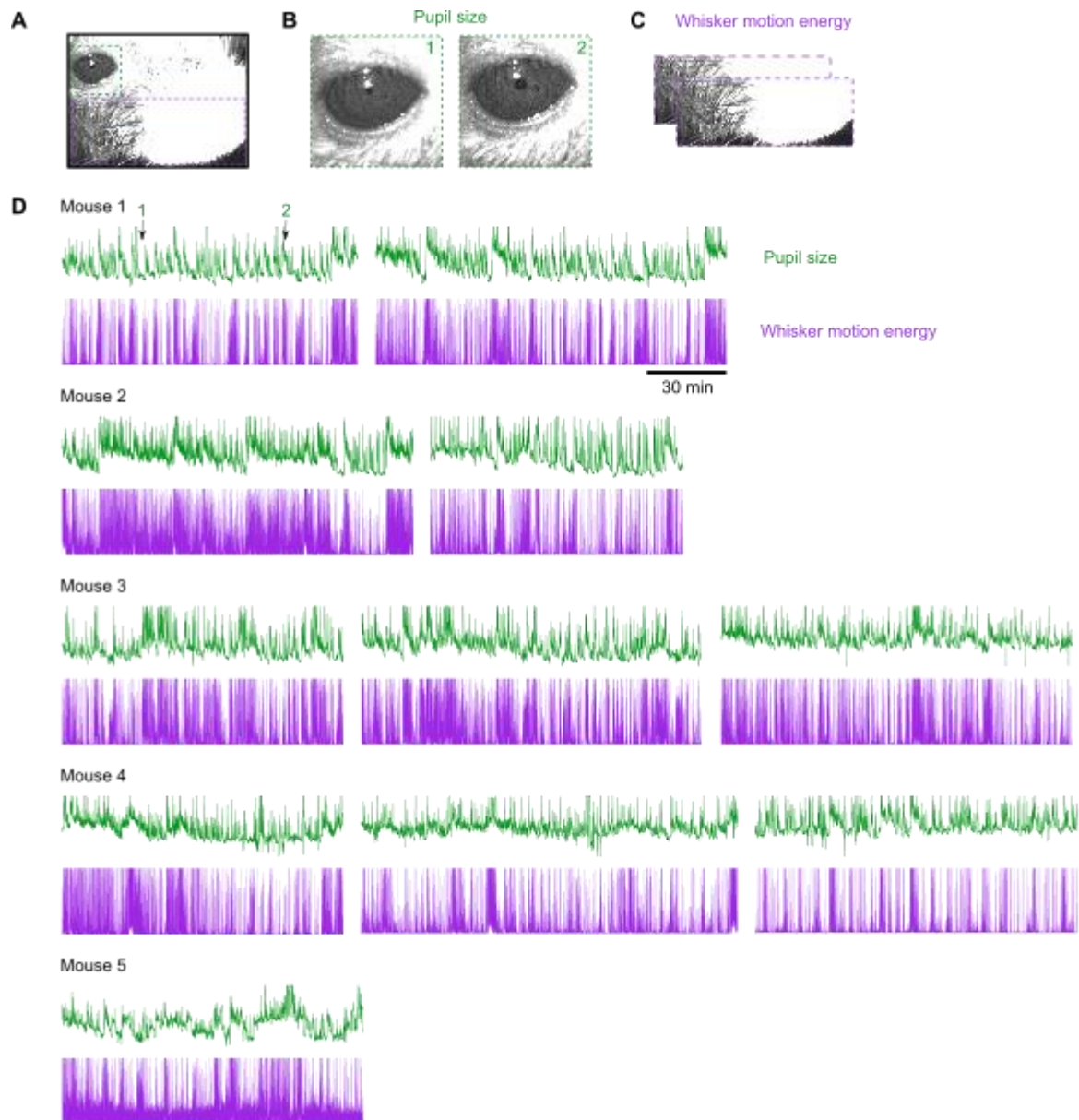
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Supplemental information

Neural correlates of blood flow

measured by ultrasound

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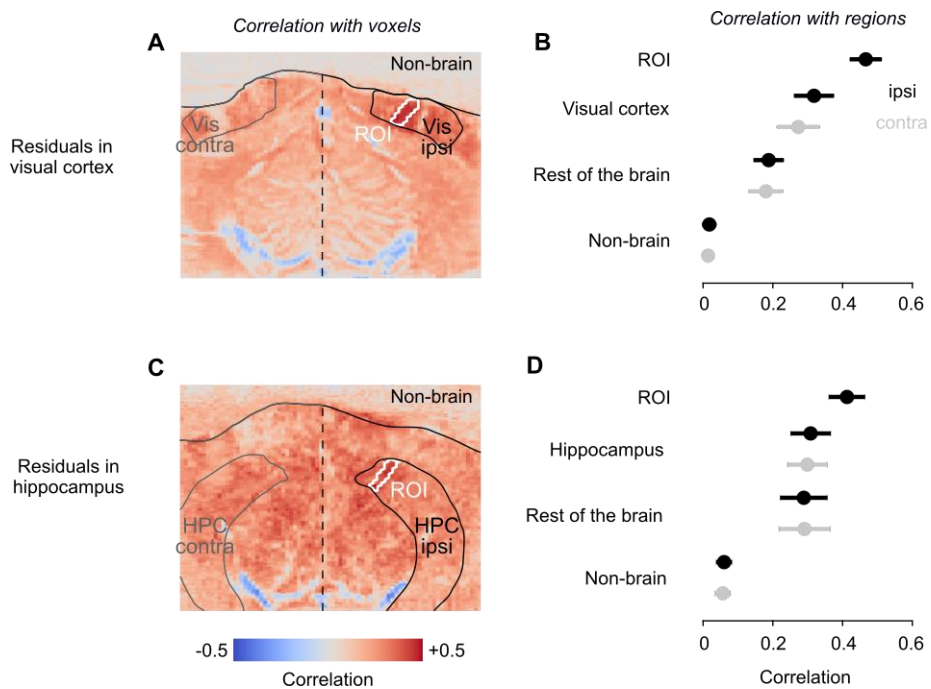


Supplemental Figure 1. **Behavioral monitoring.** Related to Figure 1.

(A) Example frame from a camera pointed at the mouse face, showing regions analyzed for eye (*green*) and whiskers (*purple*).
 (B) Example frames of the eye, used to estimate pupil size, showing a frame with smaller pupil (1) and one with larger pupil (2).

(C) Example frames of the whiskers, used to estimate whisker motion energy.

(D) Pupil size (*green*) and whisker motion energy (*purple*) for 11 recording sessions in 5 mice. Arrows 1 and 2 mark the frames in B.



Supplemental Figure 2. **fUSI residuals correlate with the whole brain.** Related to Figure 4.

(A) Correlations between fUSI residuals (fUSI signals minus filtered firing rate) in visual cortex with fUSI signals in the whole slice.

(B) Correlations with fUSI signals in the ROI, in the rest of visual cortex, in contralateral visual cortex, and in the rest of the brain.

(C,D) Same, for fUSI residuals in hippocampus.

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Conceptualization		•	•	•		•	
Methodology	•	•	•	•	•	•	•
Software				•	•	•	•
Formal Analysis				•		•	
Investigation	•			•		•	
Resources		•	•		•		•
Writing – Original Draft		•				•	
Writing – Review & Editing		•	•	•	•	•	•
Visualization		•				•	
Supervision		•	•				
Funding Acquisition		•	•				

Supplemental Figure 3. **Author contributions.** Matrix representation of the information in Author Contributions.