

Supporting Information

Nasirivanaki et al. 10.1073/pnas.1311868111

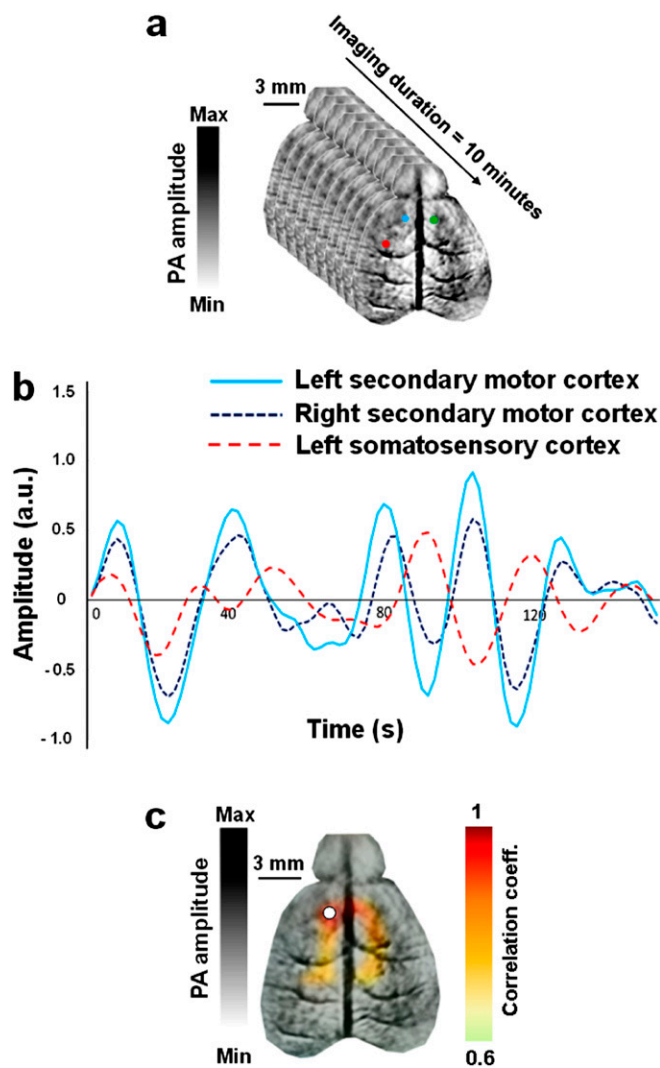


Fig. S1. Seed-based analysis of resting-state functional connectivity. (A) Temporal functional connectivity photoacoustic tomography (fcPAT) vascular images collected within 10 min. The three seeds are placed in the left motor cortex (solid line), right motor cortex (short dashed line), and left somatosensory cortex (long dashed line). (B) A portion of the time traces of the three seeds shown in A. (C) Correlation map generated using the left motor cortex seed.

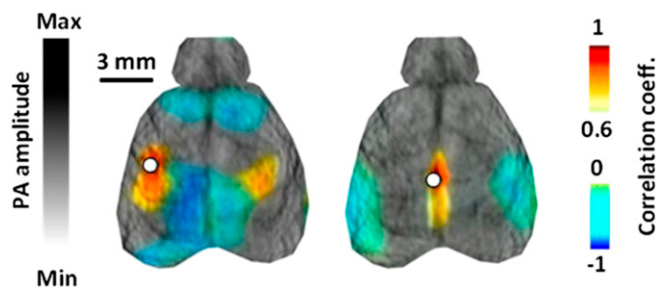
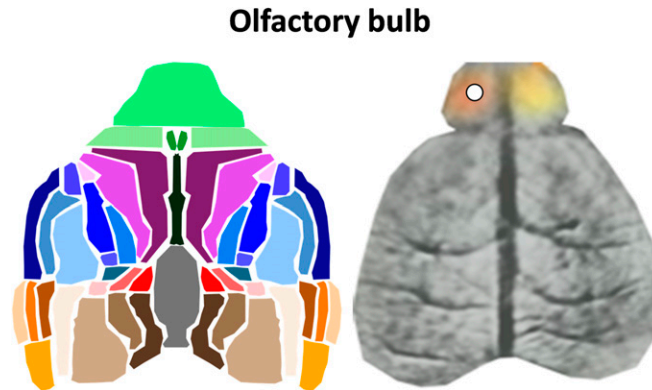


Fig. S2. Correlation and anticorrelation maps showing four main functional regions on the mouse brain. White circles, seed regions.

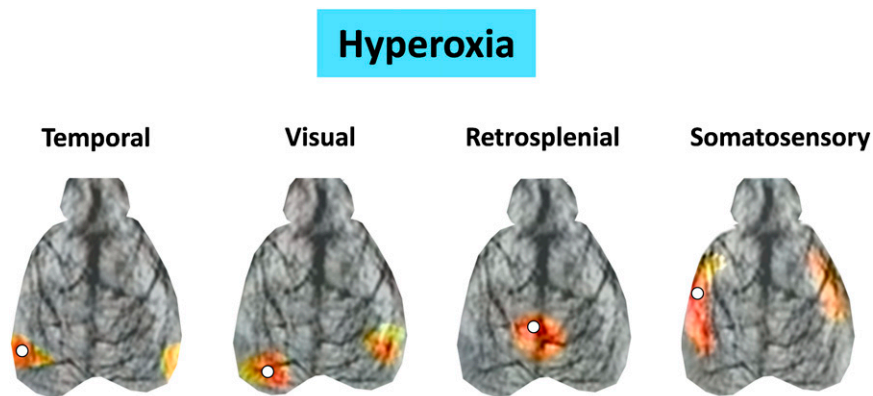


Fig. S10. Correlation maps corresponding to the seed placement in different locations of the olfactory bulb.



Movie S1. Comparison of the Paxinos mouse brain atlas (*Left*) and the correlation map (*Right*) acquired noninvasively using fcPAT. White circle, seed region.

[Movie S1](#)



Movie S2. Correlation maps of four functional regions (temporal, visual, retrosplenial, and somatosensory regions) acquired noninvasively using fcPAT in a live mouse during hyperoxia and hypoxia. White circles, seed regions.

[Movie S2](#)