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Correction

Targeted Neurostimulation in Mouse Brains with Non-invasive Ultrasound

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In the originally published version of this article, Figure 5C accidentally showed the same data for the EYFP group in the DMS and Cortex graphs. The figure legend also erroneously reported the number of subjects as 6, instead of 7. The figure legend and figure have been corrected, and the corrected version now appears online.

The authors regret this error.

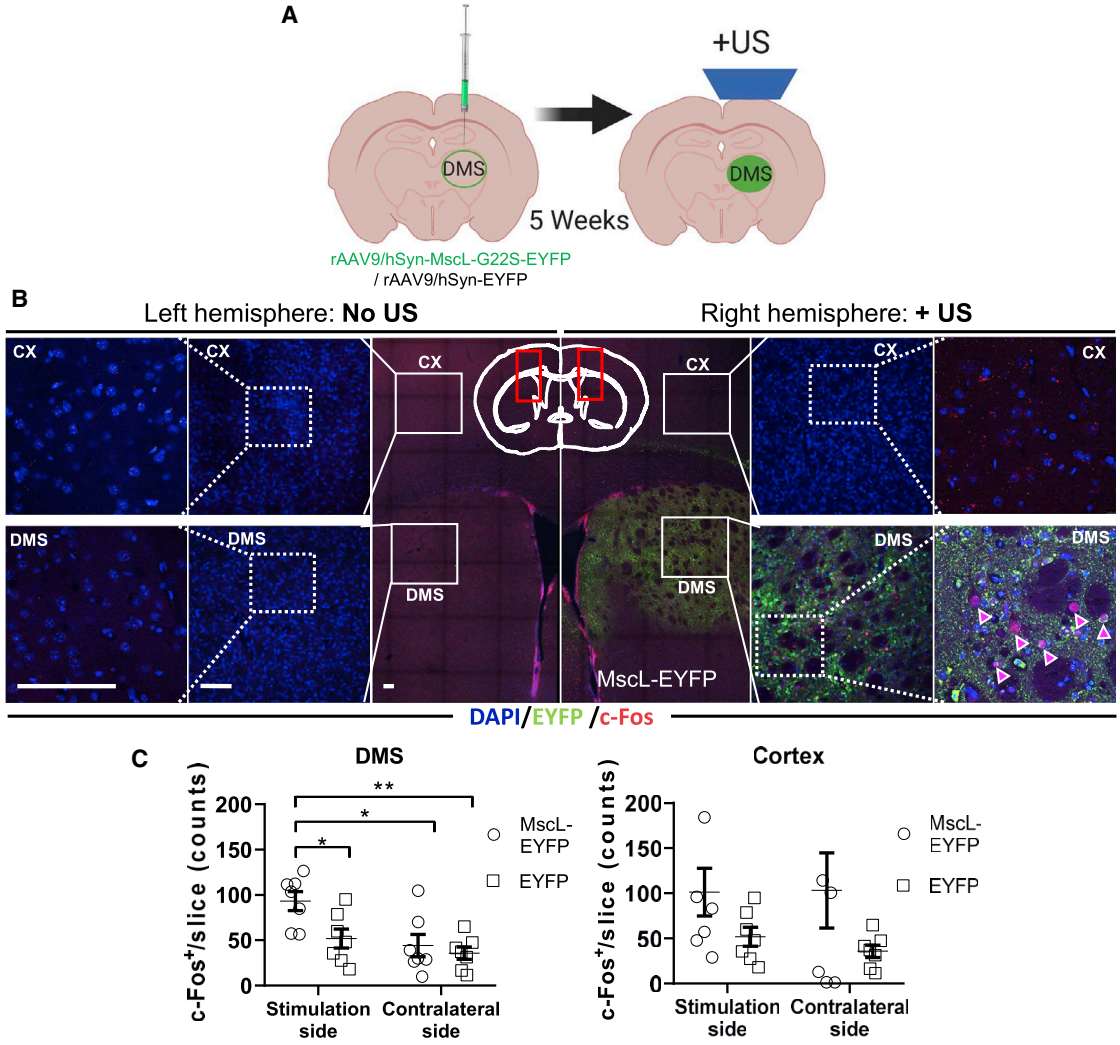


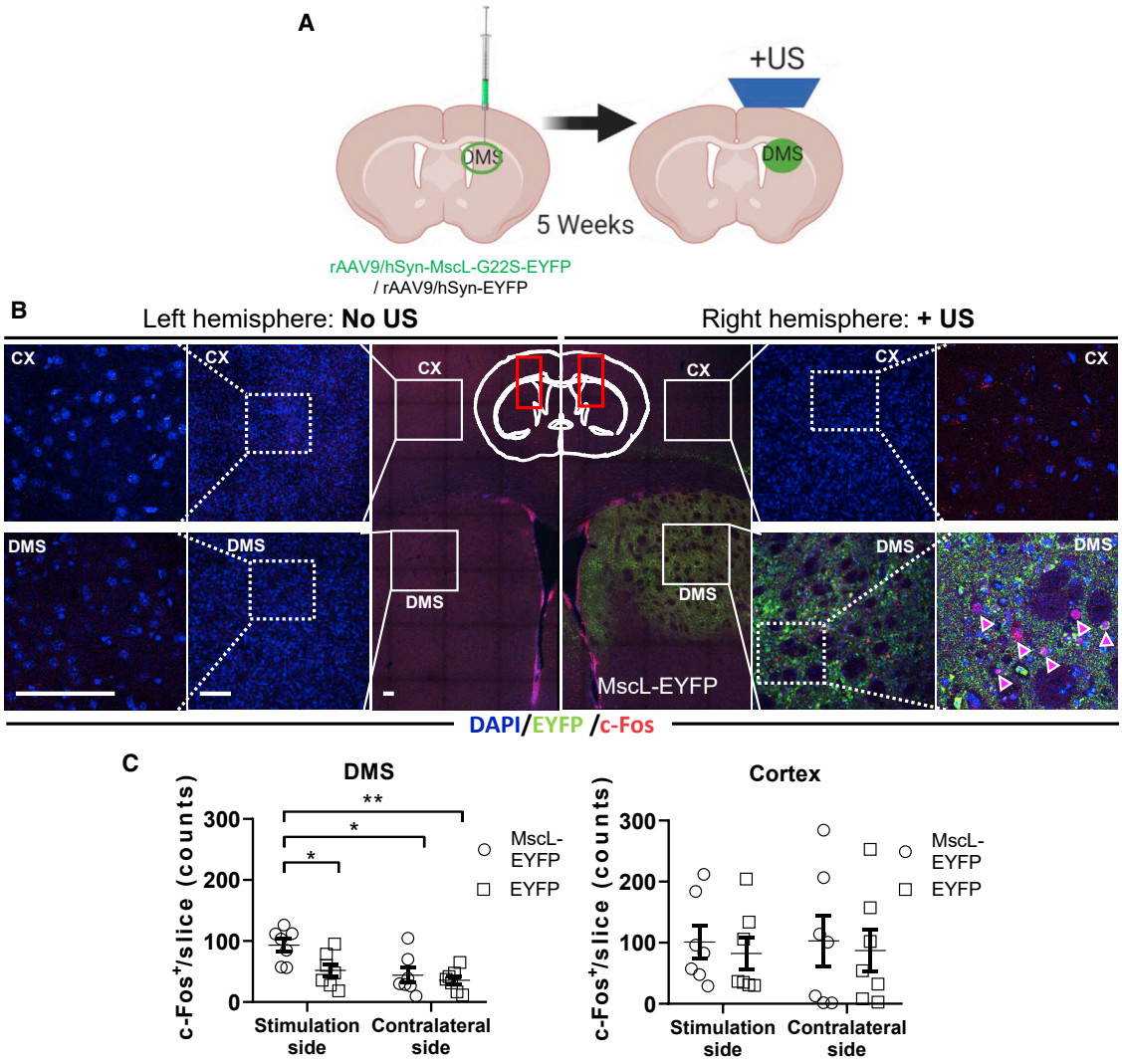
Figure 5. (original). Neuronal Activation by Targeted Low-Intensity Ultrasound Is Localized to the Brain Region Expressing MscL-G22S

(A) Schematic illustration of our in vivo neuron sensitization and ultrasound stimulation plan. Briefly, mice at 6 weeks were injected with hSyn:MscL-G22S-EYFP in their right dorsomedial striatum (DMS), and 5 weeks later, they were treated with 0.3 MPa ultrasound for a 40-min pulse (300 ms stimulation duration, 400 ms pulse
width, 40% duty cycle, 500 kHz center frequency, 1 kHz PRF). The mice were sacrificed after an interval of 90 min, and their brains were imaged for DAPI, EYFP, and c-Fos expression.

(B) Representative images of the left and right DMS and the regions of cerebral cortex directly above it, expressing DAPI, EYFP, and c-Fos. All scale bars in this panel represent 100 mm.

(C) Counts of nuclear c-Fos per slice imaged in the DMS and cortices of mice treated with ultrasound. The bar chart represents means ± SEM of c-Fos+ cells per stained slice. n = 6. *p < 0.05, **p < 0.01, two-way ANOVA with post hoc Tukey test. All significant differences are indicated.

See also Figure S2.



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(C) Counts of nuclear c-Fos per slice imaged in the DMS and cortices of mice treated with ultrasound. The bar chart represents means ± SEM of c-Fos$^+$ cells per stained slice. n = 7. *p < 0.05, p < 0.01, two-way ANOVA with post hoc Tukey test. All significant differences are indicated.

See also Figure S2.