

D D D k - D D

P D k k
1. P (1), fi
(L C, ... 2 k 3) k (H C,
3) D k k k
2.3 O k k k fi
k k k ND k
k k k fi k k
4-6. HD 1
L C KH C D k
D (EEG) D D
D D D k D k D D D k
(CCEP) D D D
D k D D 7.8
CCEP k k D D D
H D k k D D (EP) k CCEP -
(3 16-46 Dk)
D k EEG D D D
(1) O k A k k k
E CD DHD D O M k
k H R CD D P
fi D k EP k k fi k 100 -
D D (1: =47; L C: =24;
H C: =29; F . 1A k Supplementary Methods) 9.1
CCEP k k D D D
D 6 A, 1 H, 200-μ k, 20 D 40) k D k k
EEG CCEP D D D (F . 1B). D -
ND k ND k
D k k k
fi CCEP D D k k EEG D
D D (Supplementary Methods).
k D D 165 fi CCEP (1 → L C, k D k
= 35; L C → 1, = 31; 1 → H C, k D k
= 74; H C → 1, = 25) (1).

k D - D D D CCEP k
FD CCEP, D D
k MD k (7,
: 2-150 H ; : 1 H).
D D (100-500)
k D k D k D - D
(-200 D-100 ; F . 1C k D D).
D k, k k k D -100 D 100
- D k D - D D
k D k k k D D k (:
4-8 H ; : 8-12 H ; : 12-30 H ; : 30-60 H).
fi D D - D D CCEP
1 k L C. A D F . 1E, D fi D -
D D k D k D k D D k (> 0.05, D -
D. I k D
fi
(30) = 2.684, = 0.012, D fi D k
k D k D k D (34) = -1.421, = 0.164).
D k D D O D k D k k k
D k k k k
fi k k k k k D k -
D ((64) = -2.956, = 0.004, k k -).
k D 1, D L C D
k, k k D
A, D k D D D D
CCEP 1 k H C. A D F . 1F, fi D -
k D (30) = -2.235,
= 0.028), (30) = -2.186, = 0.032), k
(30) = -3.765, = 3.340 × 10⁻⁴, k k D k D k -
D D k I D k D, D k
fi D k (30) = 3.632,
= 0.001), fi D k D k
(30) = -2.378, = 0.026). ND fi D
D k D k k D k D k D
k k k D k D k D k D k -
k k k D k (97) = -3.776, = 2.747 × 10⁻⁴.
k 1 D H C D D -

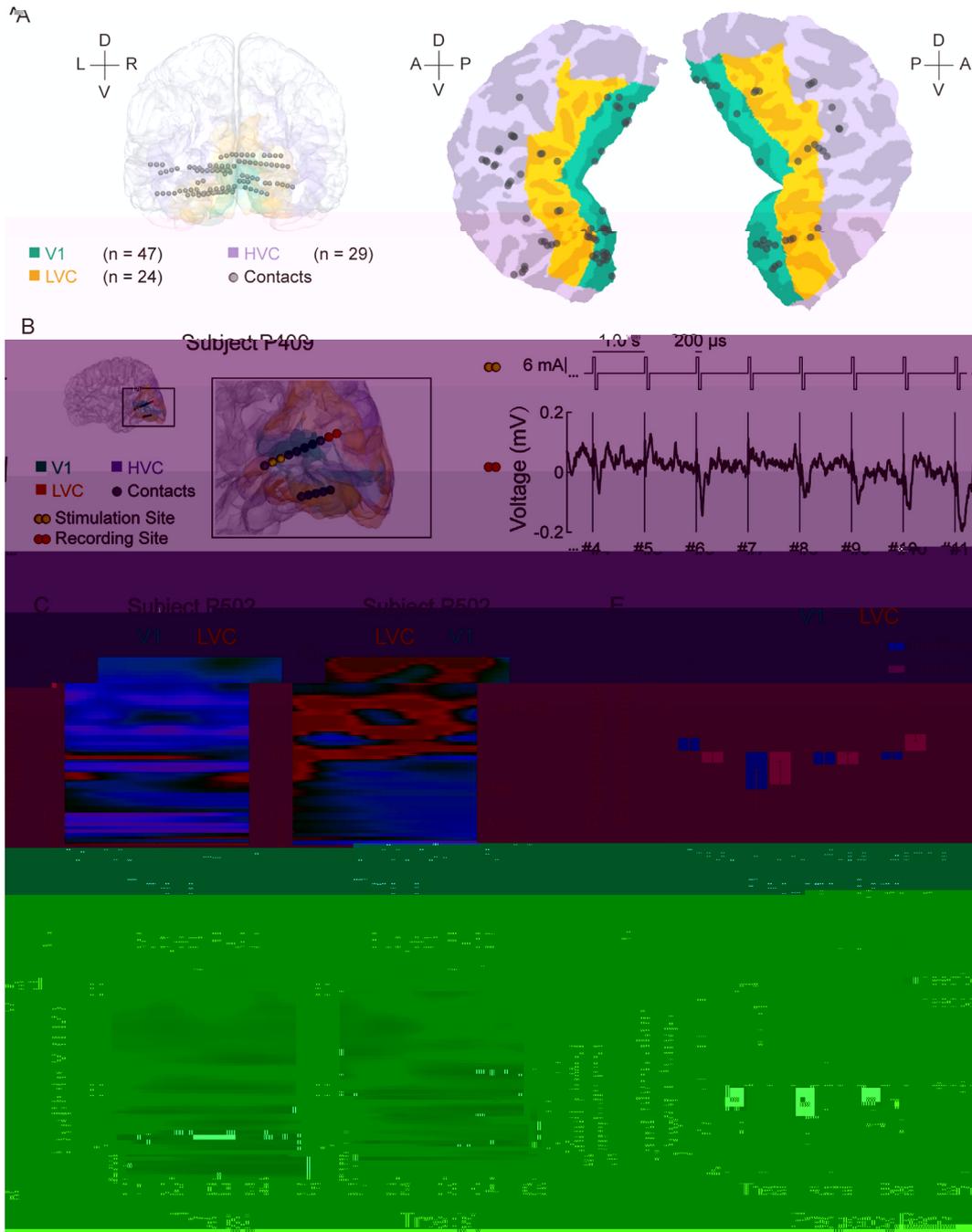


Fig. 1. (A) Left and right brain maps showing V1 (green, n = 47), LVC (orange, n = 24), and HVC (purple, n = 29) regions with contacts (grey dots). (B) Subject P409: Brain map showing stimulation sites (yellow) and recording sites (red), and a voltage trace (mV) with a 6 mA current injection. (C) Subject P502: Brain maps for V1 and LVC regions. (D) Heatmaps of CCEP (red) and CCEP (blue) for V1 and LVC. (E) Heatmaps of CCEP (red) and CCEP (blue) for V1 and LVC. (F) Heatmaps of CCEP (red) and CCEP (blue) for V1 and LVC. * < 0.05; ** < 0.01; *** < 0.001. (FD) ...

1-L C
 10
Declaration of competing interest
 fi -
 k D

Acknowledgments

I thank the reviewers for their constructive comments. This work was supported by the National Natural Science Foundation of China (2022 D0204804) and the National Key R&D Program of China (31930053, 32171039) (BAAI).

Appendix A. Supplementary data

Supplementary data for this article is available online at <https://doi.org/10.1016/j.jk.2022.07.056>.

References

1. E. DC, M. JH. H. *J. K.* 1983;6:370–5.
2. G. K, M. R. *J. A. R. N.* 2004;27(1):649–77.
3. F. DJ, E. DC. D. *J. K.* 1991;1(1):1–47.
4. B. AM, J. BD, CA, J-M, OD, K R, DD, K JR. *J. K.* 2015;85(2):390–401.
5. M. G, J. P. J-M, K. H, F. P. A. *J. K.* 2016;89(2):384–97.
6. K. D, M. D, B, G. -M. M-A, P. J. D. C. A. K. D. P. N. A. K. A. *J. K.* 2014;111(40):14332–41.
7. K. CJ, H. CJ, M. K. P, E. L, I, M. AD. M. *J. K.* 2014;369(1653):20130528.
8. L. J-D, J. K. M, L, B. A, K. F, B. M. *J. K.* 2022;145(5):1653–67.
9. D. D, B. H, G. GM, M. JH. R. *J. K.* 2007;17(10):2293–302.
10. M, D. H, E. AK. *J. K.* 2012;13(2):121–34.

D / B , B , 100871, C

- C , B , 100871, C

E), B C (, E C , 200062, C

-EC B C , 200062, C

D (B , B , C , 100093, C

B C Q B , B , 100871, C

D / B , B , 100871, C

B C F F ** B , B , 100871, C

D / B , B , 100871, C

- C , B , 100871, C

E-TM : [https://doi.org/10.1016/j.jk.2022.07.056](#) (Q.).

E-TM : [https://doi.org/10.1016/j.jk.2022.07.056](#) (E. F.).

14 J 2022

3 A 2022

L L D , B , 100084, C

G C B , B , 100871, C