

D

P (L₁, ..., L₁₆) (1. P) (z) (F), fi (z) CCEP, (7) M (2-150 Hz; : 1 Hz).
 (2.3. O) (H₁, ..., H₁₆) (100-500 Hz).
 (N) (-200 -100 ; F . 1C D).
 (4-6. H) (L₁, H₁) (4-8 Hz; : 8-12 Hz; : 12-30 Hz; : 30-60 Hz).
 D (EEG) (L₁, A) (F . 1E, fi) (CCEP)
 (CCEP) (z) (7.8. (z) .I) (> 0.05,
 , CCEP (30) = 2.684, = 0.012), (34) = -1.421, = 0.164).
 H (MP) CCEP (fi) . O
 (3, 16-46) ((64) = -2.956, = 0.004, L₁).
 EEG (1. O) (z) . A
 E C H H C C M A CCEP (H₁, A) (F . 1F, fi) -
 H C P ((30) = -2.235,
 = 0.028), ((30) = -2.186, = 0.032),
 fi (MP) (fi 100 -
 (L₁: = 47; L₂: = 24;
 H₁: = 29; F . 1A) **Supplementary Methods) 9. I** . I ((30) = 3.632,
 CCEP = 0.001) (fi
 (30) = -2.378, = 0.026). N fi
 6 A, 1 Hz, 200-μ, 20 40) (F . 1B). D
 EEG CCEP . N . N
 (97) = -3.776, = 2.747 × 10⁻⁴.
 H₁
 fi CCEP EEG
 (**Supplementary Methods**).
 = 35; L₁ → L₁₆ (fi CCEP (L₁ → L₁₆),
 = 31; L₁ → H₁₆,
 = 74; H₁ → L₁₆, = 25) (1).

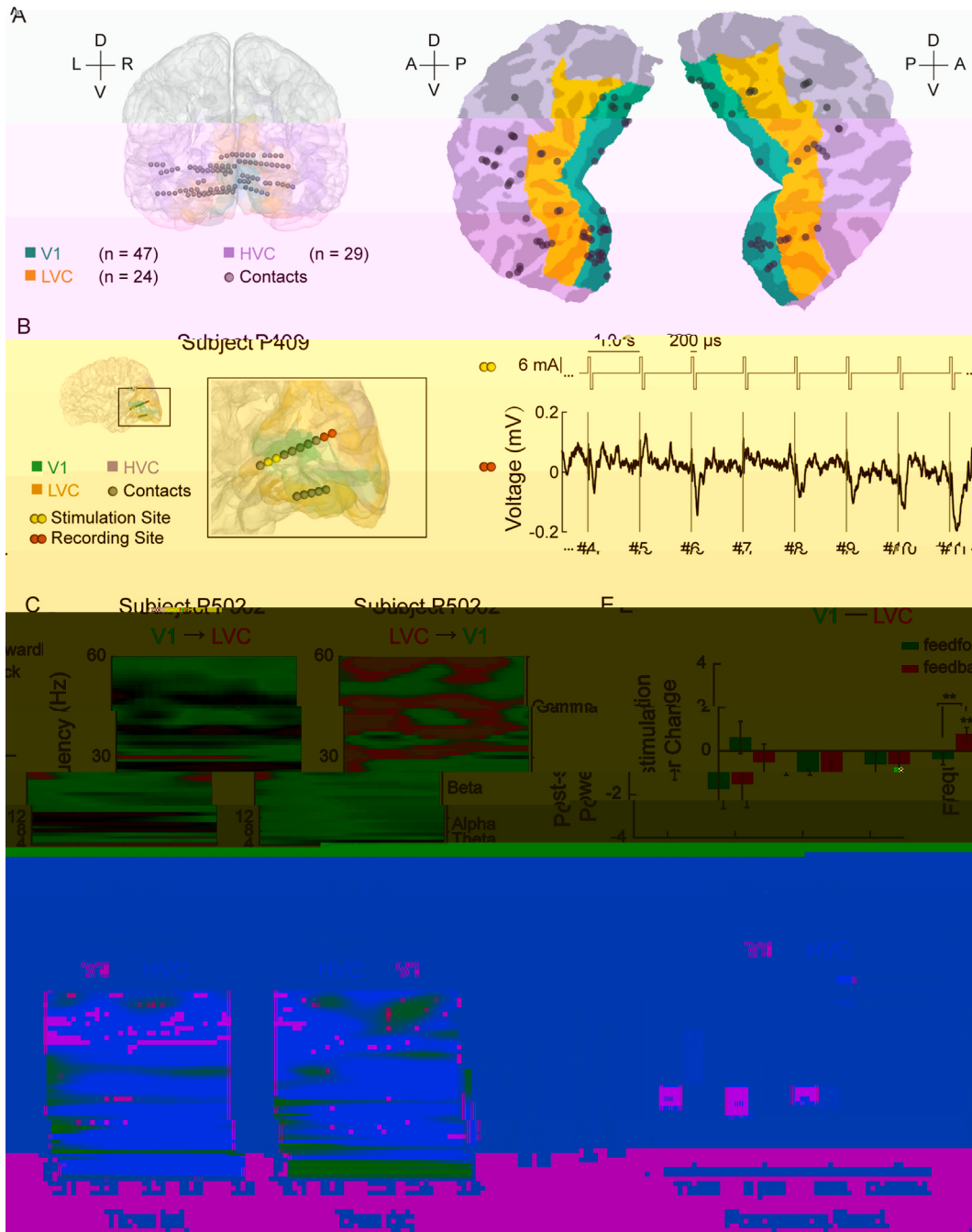


Fig. 1. (A) Lateral and medial views of the brain showing the locations of V1 (green), LVC (orange), and HVC (purple) regions and contacts (black dots). (B) Subject P409: Brain map and voltage traces (mV) over time (s) for stimulation sites (yellow) and recording sites (red). (C) Subject R502: Heatmaps showing frequency (Hz) changes in Gamma, Beta, Alpha, and Theta bands for V1-LVC and HVC-V1 connections. (D) Bar chart showing stimulation-induced frequency change for feedforward (green) and feedback (red) pathways across various frequency bands.

Declaration of competing interest

Acknowledgments

I... 2030 M... N... P... (2022 D0204802, 2022 D0204804) N... N... F... C... (31930053, 32171039) B... A... A... I... (BAAI).

Appendix A. Supplementary data

://... /10.1016/... .2022.07.056.

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A...
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14 J ... 2022
A ... 3 A ... 2022