ERP C1 🔄 d	d ared b e rar ere, ra	
GL.a. Za.	Department of Psychology, IDG/McGovern Institute for Brain Research, and Peking-Tsinghua Center for Life Sciences, Peking University, Beijing, China	\bowtie
Ha, L	State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China	\bowtie
⊳.1., S a	Learning, Beijing Normal University, Beijing, China State Key Laboratory of Cognitive Neuroscience and	

•

,

Downloaded From: http://jov.arvojournals.org/pdfaccess.ashx?url=/data/Journals/JOV/934263/ on 10/01/2015







-(60

.A F 1) i C1	(LALB	E 1.5	() 20 . T	
(S1 S8). T	(UVF)).		(
(LVF) C1	. F (S0)	Т	(7) 30 i	. T
10	. r	i S1 / i). I	22 k	
() T 1.I 80%	25 ì , 60	ì (L	i (100 / A L B)	i).

Downloaded From: http://jov.arvojournals.org/pdfaccess.ashx?url=/data/Journals/JOV/934263/ on 10/01/2015

(). T ١, $\pm 50 \mu V$ ERP . T ERP 450 ± 65 EEG А -- t ERP Α 10-0 100 C1 150 200 N1 . M В -H & H , 1995) **(B** $\alpha = 0.05.$

Re_ 📈

P c-, ca dara F $(MPI) = 45.2 \pm 2.7\%$ (p < 0.001,t ; F 2 ,). T $(MPI = 28.6 \pm 3.5\%, p < 0.001,$). T (TI) , MPI MPI $TI \leq 0$ $TI \ge 1$. T $TI = 0.60 \pm 0.07$,

(T. ^Z ',

2010). H ,

TI [']F 2.A

C1

TI < 0.3 (LVF UVF) $ERP (TI = 0.72 \pm 0.05).$

ERP da**⊧**a

T ERP C1 50 90

). T ; , 1972 ; B C1 (J & A ., 1987). T C1 Т C1 C1 (F 3, ERP). T . T UVF ERP (N =11) LVF (N = 13)C1 (F 4). T 'ERP (C1, 0 100) Μ t (M) C1 50 90 (F 4), 40 90 . H , C1 (r = 0.305, p = 0.107) $(\mathbf{r} =$ -0.093, p = 0.63). C1 50 90 C1

F 3 (C1

. A - ANOVA T , F(1, 23) = 16.62, p =0.001 (F 4). T L (. , F1, 23 = 0.008, p = 0.93) G (UVF . LVF , F1, 23 = 0.033, p = 0.86). T T L , F(1, 23) = 0.034, p = 0.85, T G , F(1, 23) =

Downloaded From: http://jov.arvojournals.org/pdfaccess.ashx?url=/data/Journals/JOV/934263/ on 10/01/2015

а

-				<i>i</i> -
., 2008; J , -	- 2004;	V1, ., 2014). M	V1 ,	(L ., C1
				, C1
			,	-

S

50 65 V1 . O

(2002)

-

V1

C1

(F

ì

4).

& S , 2014; ., 2014; M , P , & T , 2015). T F , ., 2008; J. . ^Z

(

(

,

.

., 2010). C

Η

G

Ζ

C1

., 2010). M

,

Т

LVF training group (N = 13)

UVF training group (N = 11)

b

Tra

V1 Т V1 . T C1 V1. M -, V1 (L ., 2008). T V1. ERP C1 V1 . 0 C1 V1 . M , -., 2013; ., 2012; Z ., 2008; Z^{., 2014)} T ., 2014) ., 2010; J. . (J. . V1 -, .T . A Ì ., 2014). I (. ., D & L , 1998). O

. I (J. . ^Z ., 2010). H • V1 ì ì

ì Р В . (2010) C1 . I . H , ERP Cl

,

. T B C1 . . I B Ì RSVP 1, .8()-6(D ¹, 8(-297.4(-334.)-9)-315 TJT (2T82)-26

. Human Brain Mapping, 2(3), 170–187. D R , F., M , A., S , M. I., P , S., & H , S. A. (2002). C Human Brain Mapping, 15(2), 95 111. , B. A., & L , ^Z. L. (1998). P D . Proceedings of the National Academy of Sciences, USA, 95(23), 13988 13993. , J. J., & S , G. V. (2002). F F V1 . A Ì . Experimental Brain Research, 142(1), 139 150. G G , C. M., C \, V. P., F , S., L \, S. J., & H , S. A. (1994). S . Brain Topography, 7(1), 41 51. H , S. C., & S , A. R. (2014). P . Journal of Neuroscience, 34(25), 8423 8431. J , D. A., & A , J. G. (1972). S 1 . I. C . Experimental Brain Research, 16(1), 1 21. J , D. A., & A , J. G. (1972). S ì . II. C . Experimental Brain Research, 16(1), 22 40. Κ , A., & S , D. (1991). . Proceedings of the National Academy of Sciences, USA, 88(11), 4966 4970. K , S. P., G -R S , M., & F , J. J. (2008). . Cerebral Cortex, 18(11), 2629 2636. , C. D. (2004). P L, ., P , V., & G . Nature Neuroscience, 7(6), 651 657. ., P , V., & G , C. D. (2008). L . Neuron, 57(3), 442 451. $M \qquad, A., A \qquad -V \qquad, L., S \qquad, M. \ I., F \qquad , L.$ R., B , R. B., D , D. J., ... H , S. A. (1999). I . Nature

Neuroscience, 2(4), 364 369.

, T., G , J., P , D., & Μ Т , M. (2015). L : P Vision Research, 108, 93 102. , T., H , S. A., , M. G., Ν S , A., H , T., J , L., & H H. J. (2002). D . Neuron, 35(3), 575 587. , D. G. (1997). T V T Р : T . Spatial Vision, 10(4), 437 442. Р , G., R , K. S., V , P., & S S. (2008). E . Vision Research, **48**(1), 55 62. , A. M., D Z , M., & Z , A. (2007). Р I . Neuroscience Letters, 419(2), 131 136. , K. S., P . G., V R , P., & S S. (2009). A . Human Brain Mapping, 30(5), 1723 1733. , D. (2011). P S V R Vision Research, 51(13), 1552 1566. , A. A., V , R., & O , G. A. (1995). S Н : R . Journal of Physiology, 483(P 3), 797 810. S , L. P., & P , H. (1992). I . Perception & Psychophysics, 52(5), 582 588. , R., C , L. J., & , C. (2013). T TDT . Journal of Vision, 13(5):9, 1 9, :10. 1167/13.5.9. P M A , R., ^Z, J. ., K , S. A., L , D. M., & , C. (2012). T i . Vision Research, 61, 33 38. , R., Z , J. ., K , S. A., L , D. M., & , C. (2014). V i " . Journal : A of Vision, 14(13):12, 1 12, :10.1167/14.13.12. P M A , L. Q., Z , J. ., , , R., K , S. A., L , D. M., & , C. (2008). C

. Current Biology, 18(24), 1922 1926. , ., R , M. J., C , M., , ., H , M., , S., & L , . (2014). P