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## ABSTRACT

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## 1. Introduction

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 (B & , 2012; C , D , & b\$ , 1997).  
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 C ( & , 2007).  
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 A b\$ (C , E , b\$ , 2012). fi fl  
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 E A b\$ ( & , 1991, 2010; & , 2008).  
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**2. Methods**  
 2.1. P  
 ( = 22.0, D = 1.96 )  
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 2.2. S  
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 45 72 EE  
 EE b\$



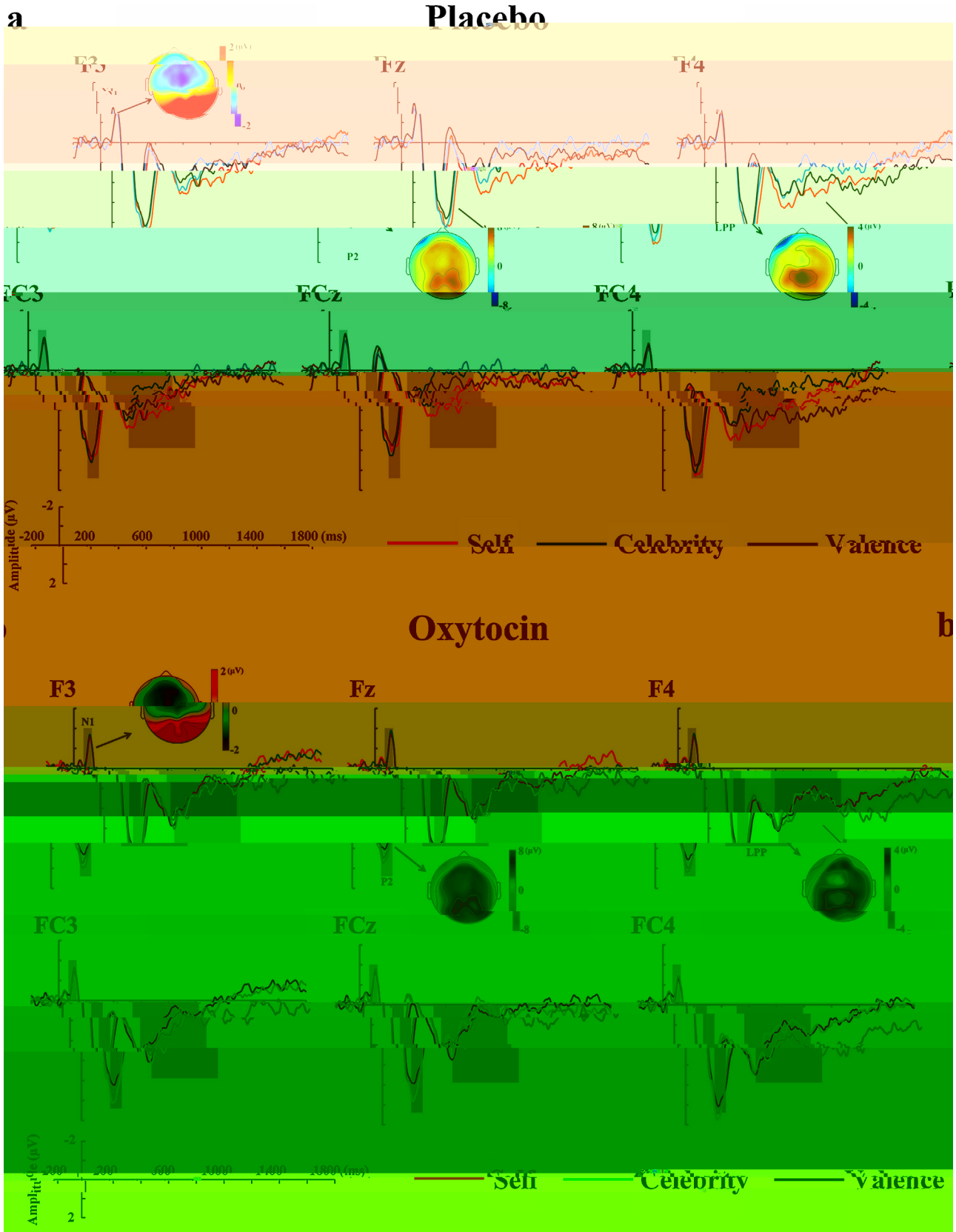
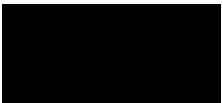
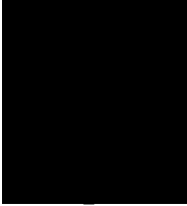


Fig. 2. ERP waveforms and topographic maps for Placebo and Oxytocin conditions. The figure is divided into two main sections: 'a' (Placebo) and 'b' (Oxytocin). Each section shows waveforms for three electrode sites (F3, Fz, F4 in the top row; FC3, FCz, FC4 in the bottom row) and three stimulus types (Self, Celebrity, Valence). Topographic maps are provided for F3, Fz, F4, FC3, FCz, and FC4. The x-axis represents time in milliseconds (ms) from -200 to 1800, and the y-axis represents amplitude in microvolts (µV) from -2 to 2. A legend at the bottom of each section identifies the lines for Self (red), Celebrity (black), and Valence (green).

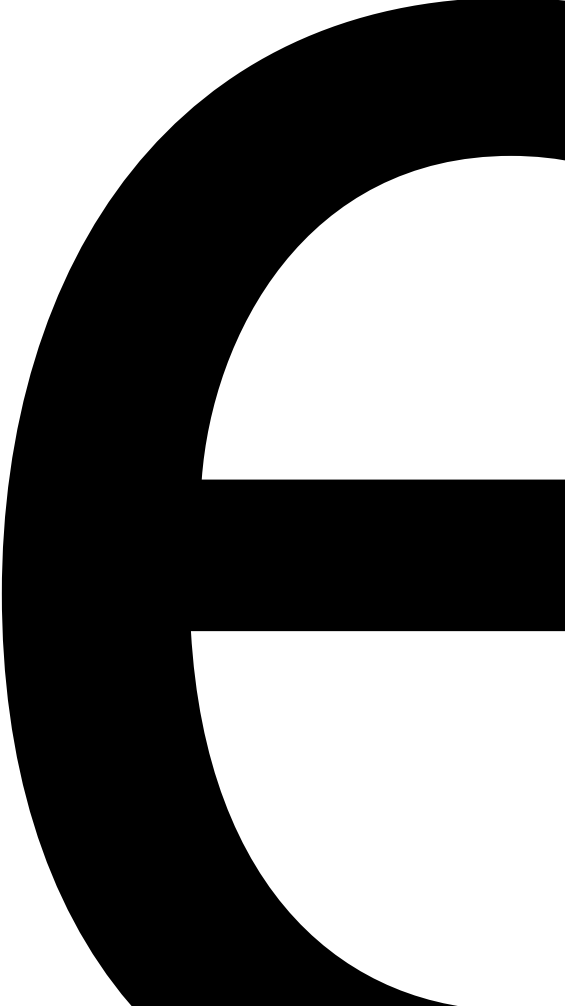




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C ., D. D., & . (2003). *fi* . *S. J.* *R.* *16, 41-52.*

D ., C., & . (2010). *H. B.* *57, 368-734.*

D D ., C. (2010). *A., B.* *S.* *328, 1408-1411.*

D ., C. & . (2009). *J. P.* *23, 241-248.*

., A., B., C., & . (2007). *B. P.* *61, 731-733.*

., B., C., B., D. F., & . (2007). *B. P.* *62, 1187-1190.*

., A., B., C., & . (2010). *E. P.* *35, 83-93.*

F ., E. C., & . (2012). *A. E.* *N.* *62, 562-574.*

., B., & B. (2010). *D.* *P.* *107, 9400-9405.*

., C., F., & . (2011). *D.* *C. N.* *1, 471-493.*

. & . (2009). *P. B. R.* *178, 203-212.*

., F. (2011). *A. R.* *P.* *62, 363-390.*

. & F. (2011). *A. E. B. R.* *1369, 149-157.*

., A., A., C., B. (2013). *H. B.* *63, 399-410.*

., A., C., B. (2010). *J. N.* *30, 4999-5007.*

. (2006). *F. C. S.* *10, 431-433.*

. (1950). *T.* *1890.*

., C., C., & . (2002). *F. ? A. J. C.* *N.* *14, 785-794.*

., F., & F. E. (2005). *N.* *435, 673-676.*

. & A. (2011). *C. A.* *PL S ONE, 6, 16901.* */10.1371/0016901*

. & . (2006). *H. B.* *50, 506-517.*

. (1990). *M. C.* *B. J.*

. & . (2011). *B.* *134, 235-246.*

. & . (2009). *J. E. S. P.* *45, 1048-1051.*

. & . (2010). *? A. J.* *E. P. H. P.* *36, 619-633.*

., B., D., C., A., F., C., A., (2013). *fi. S. C.* *N.* *18, 1-21.*

. & . (2010). *H. R. P.* *E., & A.* (2007). *P. S.* *18, 672-677.*

. & . (1991). *C. R.* *98, 224-253.*

. & . (2010). *C. A.* *P. S.* *5, 420-430.*

., A. A., ., D., & B. (2010). *fi. P.* *209, 225-232.*

. & . (2007). *B. P.* *61, 1109-1111.*

., A., & . (2011). *N. R. N.* *12, 524-538.*

., A., & . (2010). *B. P.* *85, 182-184.*

. & . (2010). *N. fi. S. P.* *13, 83-91.*

. (2011).