B 88 (2011) 253–262

Contents lists available at SciVerse ScienceDirect

Biological Psychology

journal homepage: www.elsevier.com/locate/biopsycho

A

V C. *

Key Laboratory of Child Development and Learning Science, Ministry of Education, Southeast University, Nanjing 210096, China
Department of Marketing, University of Groningen, P.O. Box 800, 9700 AV Groningen, The Netherlands
Center for Brain and Cognitive Sciences and Department of Psychology, Peking University, Beijing 100871, China
Key Laboratory of Machine Perception, Ministry of Education, Peking University, Beijing 100871, China

ARTICLE INFO

Article history:
20 2011
A 22 A 2011
Available online 2 September 2011

Keywords:
D
300

ABSTRACT

(, ., 1986).

. D (1999),

fi (C

, 2008):

D

( )

: (1)

D .

(2)

fi (

) 300 .B fi

1.2. MFN responses to (un)fair behavior

(; D D

C , 2010; ., 2011; ., 2008).

. (1982), D ,

( ),

fl 200 350

(, 2002;

., 2005, 2007; , 2002; ., 2004;

., 1997; ., 2004;

2010; , 2004; ., 2005;

2006 ,$, 2009).

( )

fl

(ACC) (, 2002; ., 2004).

(. ., “)

ACC fl

(. .,)

ACC fl

fi

fi.

(., 2007; ., 2007; ., 2010;

, 2009). (2009)

D C (2010) fl

(D ,

1975; , 1983; , 1993),

(, 2002; , 2004).

D C

fl

B D ,

fl

(2011)

D .

D C (2010) fi fi

fi

(, 2006, 2009;

, 2008; , ., 2010; , 2010; ,

2011; , ., 2010; , 2006).

fl

D .

/

/ . B

(,

, 1999; , 1994, 1997; , 2006; , 1975),

. A

( )

1.3. P300 responses to (un)fair behavior

A , 300,

200 600

300

(D , 1988).

( )

300 ( ) (

1977; D D , 1977; D ,

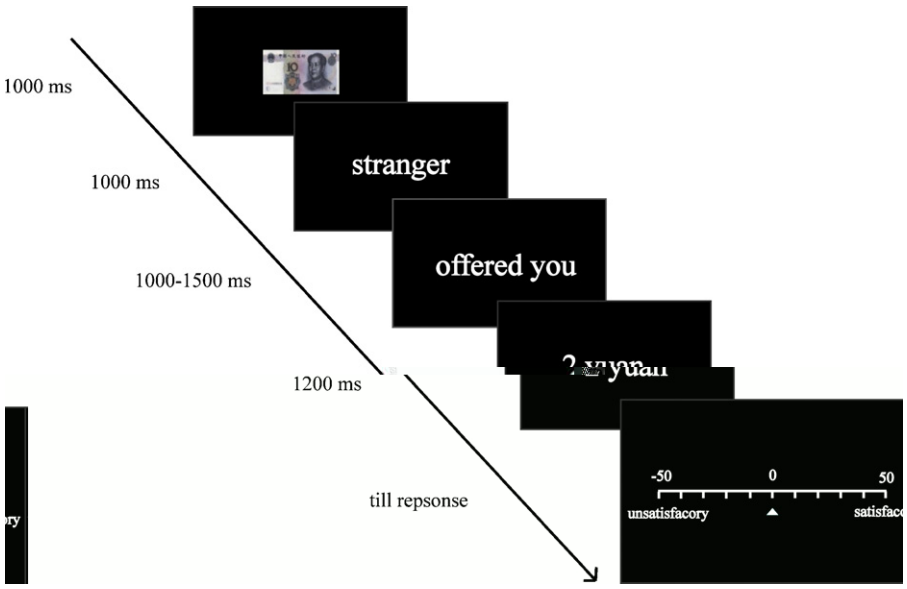
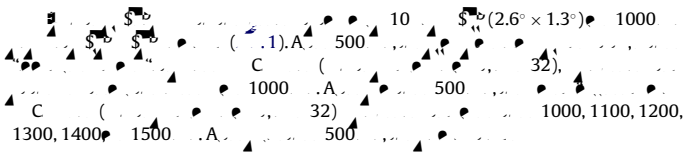


Fig. 1.

1980). 300 $ $
300
(., 2005; v
, 2004). 300
$ (., 2005, 2007;
, 2009; v ., 2005).

300
300 $ $
$
(, 2010; ., 2011). A 300
(P
, 1988; ., 2004; , 2005)
/ (., 2005; v
, 2004),
300 $ fl
. , 0 .$0 07.0002 274.8778 337.6692 ( ) / 1 1 7.9709/ 1 1 398.0002 0 0 .0001 246.



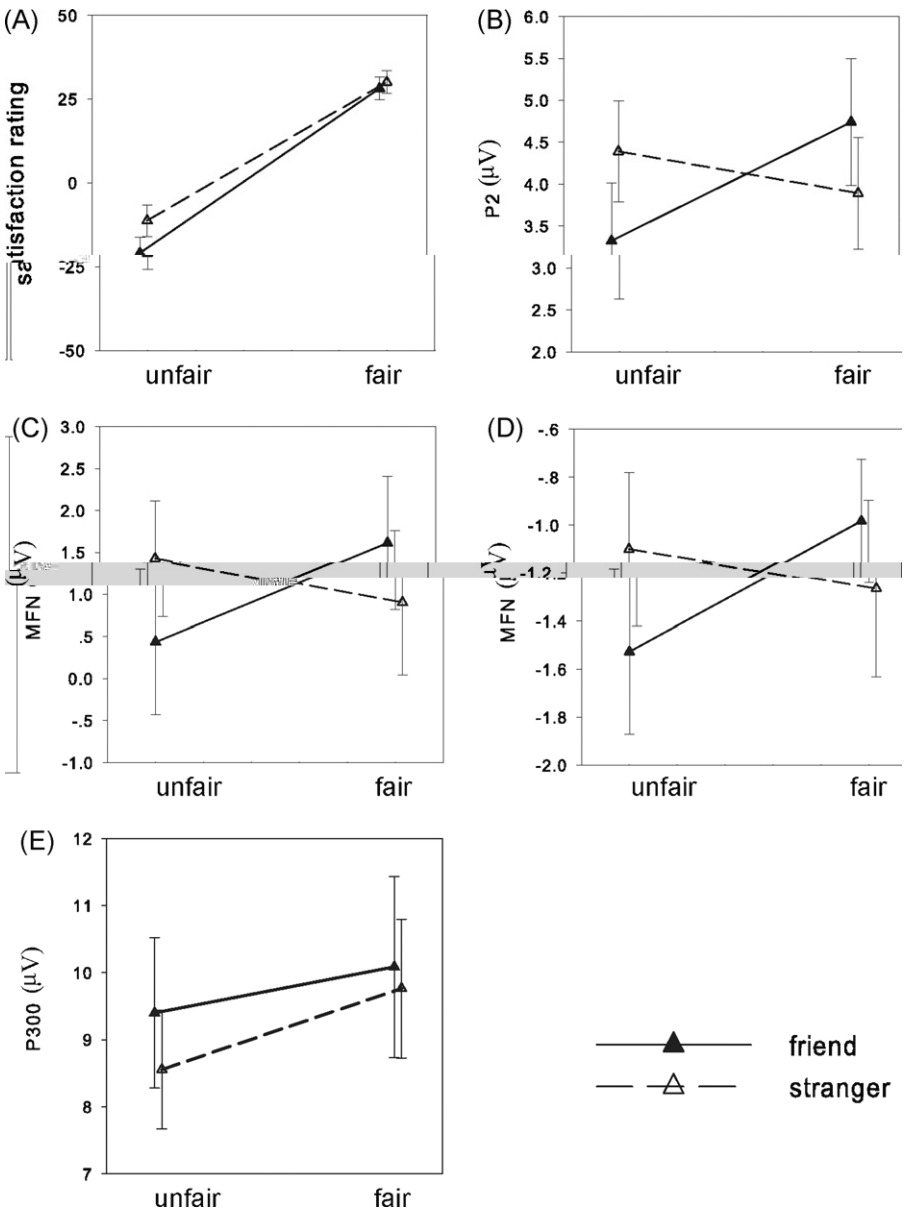


Fig. 2. B ; (C) ( ) 240 340 240 340 ; (D) ( ) 240 340 2 20 fi ; (E) 250 600

fi , $F(1,16) = 3.50$, $p = 0.08$, (. 3B).

A _ , A $F(1,16) = 6.56$, $p < 0.05$ (. 2C). fi

$ fi , $F(1,16) = 6.46$, $p < 0.05$, (0.43 μ,) (1.61 μ,). (1.43 . 0.90 μ,), $F(1,16) = 1.75$, $p > 0.1$.

$ (1.61 . 0.90 μ,), $F(1,16) = 2.83$, $p > 0.1$, (0.43 μ,) (1.43 μ,), $F(1,16) = 6.23$, $p < 0.05$, fi , $F(1,16) = 5.87$, $p < 0.05$, (2.94 μ,) fl (3.94 μ,).

$ fi $F(1,16) < 1$ $F(1,16) = 1.07$, $p > 0.1$, $ (. 3B), fi fi $ fl $ 300. 300 fi 2 20 $ (. 3C; D ., 2005; ., 2008; ., 2003

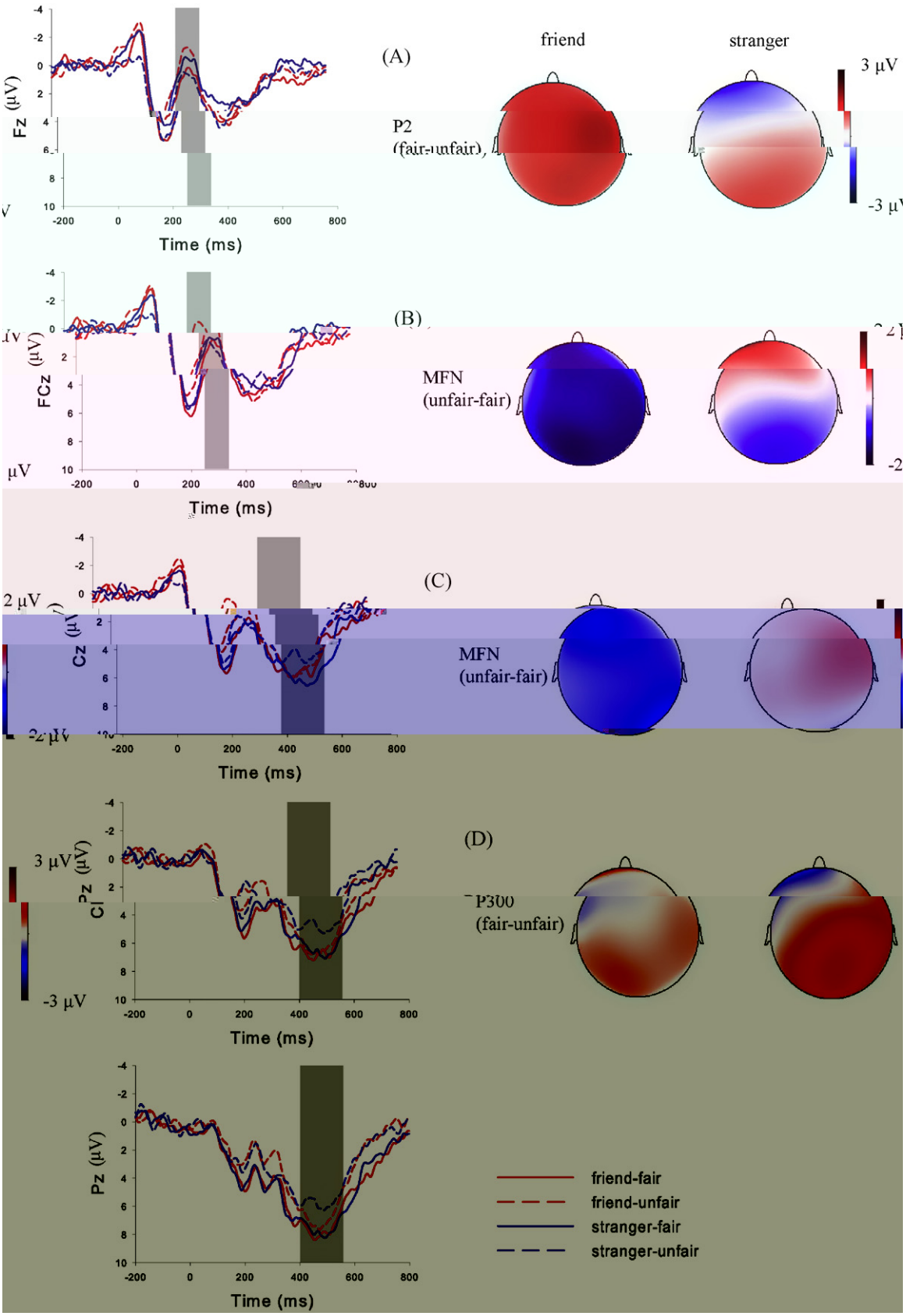


Fig. 3. ( ) , C , C , C 240 340 C ( ) (A) 2 160 240 ; (B) 240 340 ; (C) 240 340 2 20 $ fi ; (D) 300 400 550 . C , C 300.

). 240 340 2( ) × 2 ( ) A A. fi (. 2D 3C), $F(1,16) = 4.22$, $p = 0.057$, (−1.53 . −0.98 μ), $F(1,16) = 6.58$, $p < 0.05$, (−1.10 . −1.27 μ), $F(1,16) < 1$. fi $F(1,16) < 1$ $F(1,16) = 1.77$, $p > 0.1$, fi $F(1,16) = 3.28$, $p = 0.09$. (−1.21 μ) (−0.73 μ) $F(1,16) = 3.14$, $p = 0.10$.

3.5. The P300

A A , A 400 550 ( ) ( ) fi $F(1,16) = 5.14$, $p < 0.05$. 300 (6.96 μ) (6.06 μ). fi $F(1,16) < 1$. fi 300, (. 2) 250 600 A , A. A fi $F(1,16) = 5.27$, $p < 0.05$, (9.92 . 8.97 μ), $F(1,16) = 1.21$, $p > 0.1$, $F(1,16) < 1$, . 3 ( ) 300. A A , A 550 800 fi $F(1,16) = 3.86$, $p = 0.067$, (2.90 . 1.94 μ). fi $F(1,16) < 1$. ( ), fi (C ., 1994; ., 1998) (, 2010), 300. 300 fl (, 2010).

4. Discussion

. A

2 300 fl (, 2002; , 2004; , 1983) (, 2006; , 1975). D fi (, 2007) (, 2010). ACC, fl A fi (D D C , 2010; ., 2011; ., 2008).

5. Conclusion

B., 1999. A 89, 335–339.
A., D. C., D., 2010. 5, 118–128.
A., D. C., D., 2009. A
B. C., 2003. B 50, 133–144.
C., 2008. ? A B 68, 29–35.
1990. C A.
1977. 3 14, 590–597.
C. C., B., 1994. B A 67, 115–125.
B. A., 2007. A A. B 7, 278–285.
D., 1975. ? 31, 131–149.
D., 2005. A
1988. 300 ? B B 11, 351–374.
2005. B 25, 777–787.
D. C.C., 1977. 14, 456–467.
A., 2003. 41, 20–26.
2002. A 415, 137–140.
2004. B 25, 63–87.
1991.
2006. A 1, 149–157.
2009. ? 4, 261–275.
A., 2002. 295, 2279–2282.
A., D., 2004. 300 40, 216–224.
B., D., A. B., C. A., 2010. ? A 5, 414–423.
B., 1982. A B 3, 367–388.
C.B., 2005. B 42, 161–170.
C.B., 2007. 44, 905–912.
1994. fl 38, 647–664.
1997. fl 41, 835–868.
D., C., A., D. D., C., 2008. ? 95, 1136–1149.
2010. 5, 76–91.
2008. B C 9, 33.
C.B., 2011. 48, 507–514.
C.B., 2002. 109, 679–708.
C.B., D., 2004. 41, 245–253.
2008. 19, 383–387.
A., C., 1998. 75, 887–900.
C. A., B., 2007. D fl 18, 1385–1388.
1980. 300 17, 167–178.
D., 1986. B 59, 285–300.
B., C. A., 2010. 46, 229–232.
C., B., D., A., 2009. fl 45, 505–514.
2010. 48, 448–455.
A., 1988.
D., 2005. 300: ? 11, 563–576.
D., D., D., C., 2003. 14, 47–53.
D., B., 2011. 54, 2472–2480.
D., 2006. fl 50, 584–606.
A., 2010. B C 11, 86–93.
D., 1993. B.A., B. (.),
D., 1983. D., (.),
B., C., 1997. 9, 787–796.
2007. 56, 14–18.
A., D., 2005. D B 3, 131, 510–532.
C.B., A., D., 2004. C 14, 741–747.
D., 2007. 19, 1994–2004.
D., D., 1996. D B D 67, 181–200.
D., D., C., C., 2008. B B 190, 218–223.
C., 2010. 49, 956–962.
1986. 20, 28–34.
A., A., 2005. 300.
16, 407–411.
A 1986. A 300 23, 695–703.
1975. ? 31, 873–880.
1998. B 89, 663–679.
1999. fl B D 79, 199–215.
C., 1986. A (.), C.
A., B., 2010. fi C 20, 1596–1603.
2009. 300 B 1286, 114–122.

V , ., , , C.B., C , .D., 2005. $. C $ C 15, 535 544.
V , ., , A. ., 2004. $. 24, 6258 6264.
V, ., , , ., 2006 . B $. 17, 1747 1751.
V, ., , ., 2006$. B . 17, 1649 1653.
V, ., , ., 2009. $ $? 21, 684 696.
, ., , .V 2011. : 47, 582 588.