110 (2015) 22–31



2015 • . . .

Introduction

(., 2002; J ., 2011).▼	., 2002;	fi (•)	- ., 2009; ,	(., 20 2011) /	", 10; , 2014) , 2013),	2010), ., 2011), /	▼ (j (J) fl	(_ 2013; (
() J 2009;	., 2005; ., 2010, 2012; _	(▼), (_) ., 2007; ., 2011;	(, 2007 , 20	., 2004; ; .,)11),	2013).	(,	., 2002;	., 2011	; , ,
2013, 2014	(., 2 4)	/ 2009; (, 2012;	., 2013)	, ., 200	, 08).	fl	(, 2011) (fi

* ; , j 100080, _ :+86 10 6276 1081.

E-mail address: . . (.).

:// . . /10.1016/j. .2015.01.042 1053-8119/ 2015 ▼ .





Materials and methods

Participants

















fMRI imaging data acquisition

j

(

/

9-



$$= 2530$$
 , $= 3.37$, $(\bullet) = 1100$, fl $= 7$)

fMRI data analysis



 $d_{RBE} = (M_{Asian} - M_{Caucasian})/S_{Caucasian}$



fi . fi fi

. -



Results

Behavioral results

fi 1). (()) ((/ /) . i (6.84 . 0.70, (1,58) = 565.41, < 0.001,= 6.14, 95% ▼: 5.88, 6.40, = 7.51), / / fi $(_{-}(1,58) = 1.01, = 0.32,$ = -0.26). (_(1,58) = 37.49, < 0.001, = 0.57,95% ▼: 0.47, 0.66, = 0.28), j fi (7.13).6.55, (59) = 6.30, < 0.001,= 0.58, 95% ▼: 0.48, 0.67, = 0.29) (0.71 _ .0.70, (59) = 0.15, = 0.88, = 0.01, 95% ▼: -0.04, 0.06 , = 0.01). _ j / / fi $(_{-}(1,58) = 6.53, <$ 2 -86.233-17116 ()-9(0)-28 =0.29 .

26

i

	/			/			
		-				-	
6.92	0.38	5.76	0.52	7.33	0.35	6.59	0.40
0.64	0.17	0.73	0.22	0.77	0.14	1.48	0.30
6.14	0.40	5.08	0.51	6.96	0.33	6.10	0.40
0.67	0.18	0.66	0.17	0.73	0.13	1.30	0.29

(1,29) = 0.59, = 0.45;

= 0.230.09). $(_{-}(1,58) = 2.05,$ fi / = 0.37). = 0.16,fi (> 0.1, 1).

Neuroimaging results

fi 1 _ 53576. ., 2009). / _ fi

(F(1,58) = 23.04, p < 0.001)(F(1,58) = 5.11, p < 0.03).(fi / _) () fi) (=0.33,< 0.02. 1), fi

j fi • --(F(1,58) = 9.78, p < 0.005),/ _ / / fi

/ $(_{-}(1,29) = 15.71,$ < 0.001) / $(_{-}(1,29) = 0.35, = 0.56,$ () 0.22 0.57 / , _ .1). 95% ▼: 0.16, 0.28 -0.04-0.10, 0.02 -0.123). , / (/ / (= 0.81). /__

(fi . -)) () 53576. . (2013)" fi ((1,58) = 11.29, = 0.001; $:_{-}(1,58) = 7.03, = 0.01).$ fi

_ .1), (.) () :-0.95) :-0.94) / 0.09 (, 95% ,95% ▼: -0.65, -0.37, -0.51 (-0.38 (,95% ▼: -0.51, -0.25, : 0.24) 0.10 (, 95% **-**: (3). / ▼: -0.03, 0.20, -0.03, 0.23, : 0.24) / (, / (• = 0.87;: = 0.68).

/ (:_(1,29) = 14.03, = 0.001; : _(1,29) = 8.46, < 0.01) / (: (1.29) = 0.59 = 0.45; (1.29) = 0.64 = 0.43

(1,29) = 0.64, = 0.43,



fi / _ (() ()) fi 1 (/ / = 0/36/42)(_ .3 /). -4/12/-8)

/ . 4). fi / _

Table	3
Table	-

Tuble 5					
		▼.			
	/ _	•	•		
/					
	0.22	0.01	-0.03	0.09	0.10
95% 🔻	0.16, 0.28	-0.06, 0.08	-0.07, 0.02	-0.03, 0.20	-0.03, 0.23
	0.57	0.02	-0.13	0.24	0.24
/					
	-0.04	0.01	-0.02	-0.51	-0.38
95% 🔻	-0.10, 0.02	-0.04, 0.06	-0.06, 0.02	- 0.65, 0.37	-0.51, -0.25
	-0.12	0.04	-0.10	-0.95	-0.94







				,	
J	((, 1992) ., 20	(09;	., 2002; ., 2011).

- , ., 2009. . . _ .30, 3227-3237.

- •
- . . . 13, J
- J.