A A

Differential brain mechanisms for processing distracting information in task-relevant and -irrelevant dimensions in visual search

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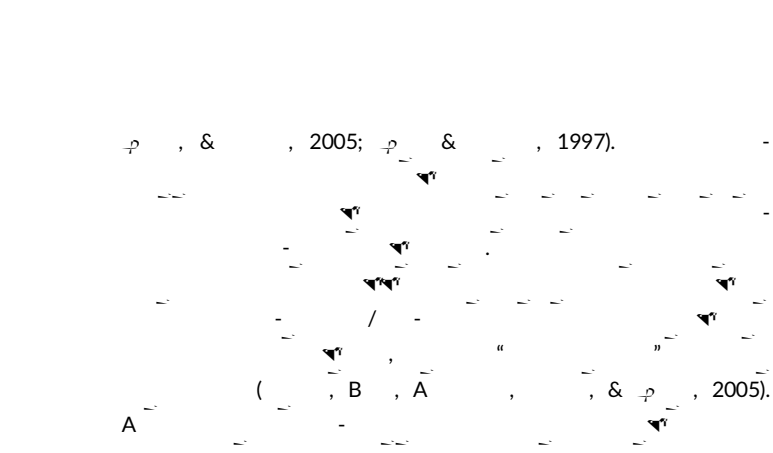
[1]B , , B , ,
[2]B A , , B , ,
[3] B 08 9 4 78 .8 661 ( )-269.3( )-61,7(8 ,)-272.4(B ,)-264( ) 5.24980014.82848.6(48527.8109 (3) 6.999900)-271014

2016). A

, -
, - and . , ,
- ,
-



F(1, 13) = 12.55, p < .005. A 2, -

-

, F(1, 13) < 1,

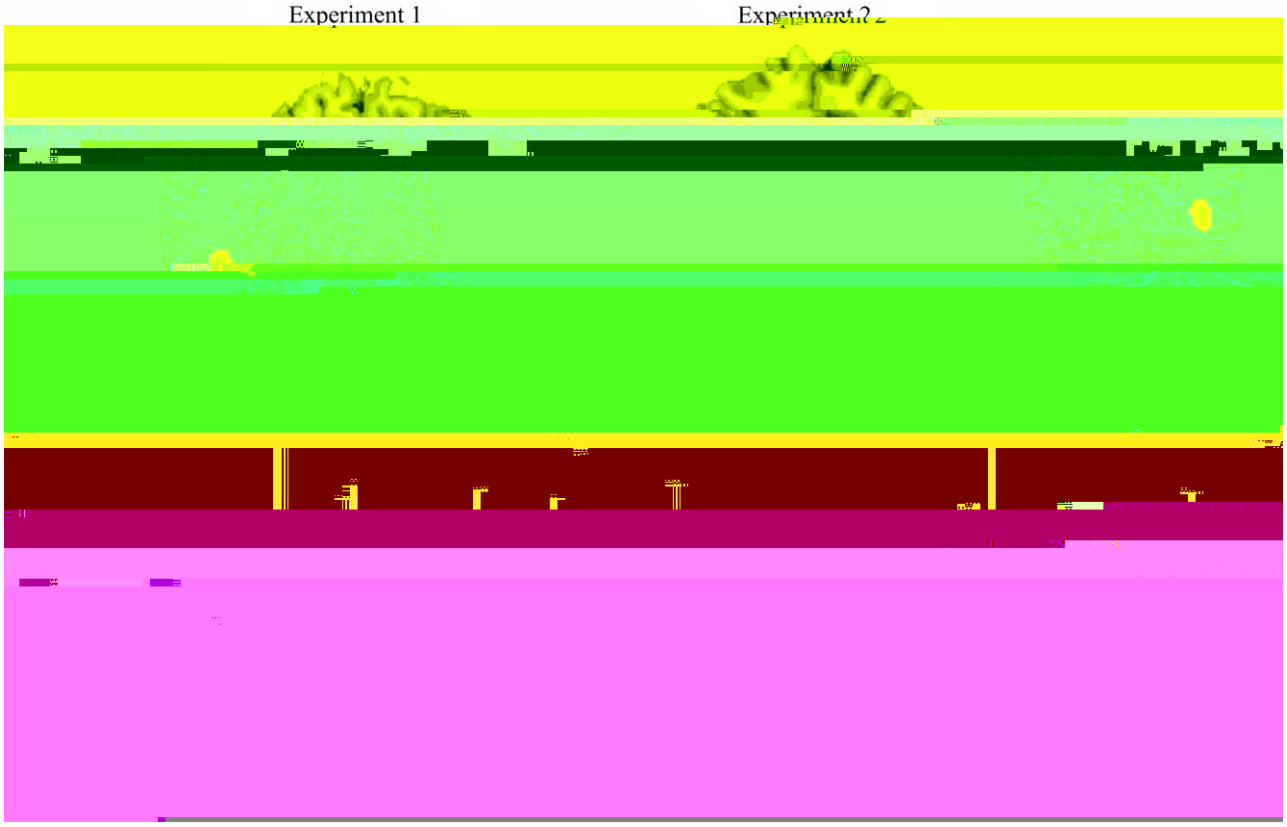
- , F(1, 13) = 27.21, p < .001.

-

,

(759 . 744),

t(13) = 1.93, p > .05; , -



3 - (.) 1 2,

- - -
- - (.
2), - ,
, - p < .05
- (4), .
1 - - -
(9/41/4, BA 39, Z = 5.81, = 46). - -
(4), - .

3.2.4 The interaction analysis

A , (–) > (– - - -
), (–26/–2/42, BA 6, Z = 4.20,
= 86) (–20/–70/48, BA

A 3 B ( )
- ( )

Anatomical regions	BA	*x*	*y*	*z*	*Z*-value	Voxel no.
Conjunction analysis						
	7	–28	–48	44	3.87	68
	7	–20	–70	40	3.63	139
	6	–24	0	48	3.75	115
	6	28	0	46	3.61	22
Conjunction analysis for target-absent trials						
	7	–30	–42	44	5.21	46
	7	–22	–70	38	5.26	64
	6	–28	–2	52	4.80	4
	6	30	0	48	4.95	11

Note. (x, y, z) ( ) .

7, Z = 4.33, = 88) .

(–30/–6/48, BA 6, Z = 4.65, = 161), (–22/–68/50, BA 7, Z = 4.40, = 205), (26/–68/50, BA 7, Z = 4.37, = 109), .

3.2.5 Region-of-interest (ROI) analysis

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5 (1, , , 2) (, , -)

4 DISCUSSION

, - - . , . (& , 2006), , - , - - - - . A , - ,

, , . , , - - , .

4.1 Processing the task-irrelevant dimension

A " " , - - - — . - - . , - , , (B & , 2000), - -

4.2 Processing the task-relevant dimension

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