



Reward makes the rhythmic sampling of spatial attention emerge earlier

Zhongbin Su¹ · Lihui Wang^{2,3} · Guanlan Kang⁴ · Xiaolin Zhou^{1,5,6,7}

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Abstract

... () ... (<2 ...) ... (2–3 ...) ... (120 ...)

Keywords

Introduction

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(, < 300).
(, 2010 , 2000 & , 1 4 & , 2005).
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$$= \sqrt{-1 \sum_{i=1}^n (-)^2}$$

Phase coherence analysis

(2-3) () () (2-3) (,200) (,) 2-3

(4), 1, 25 1

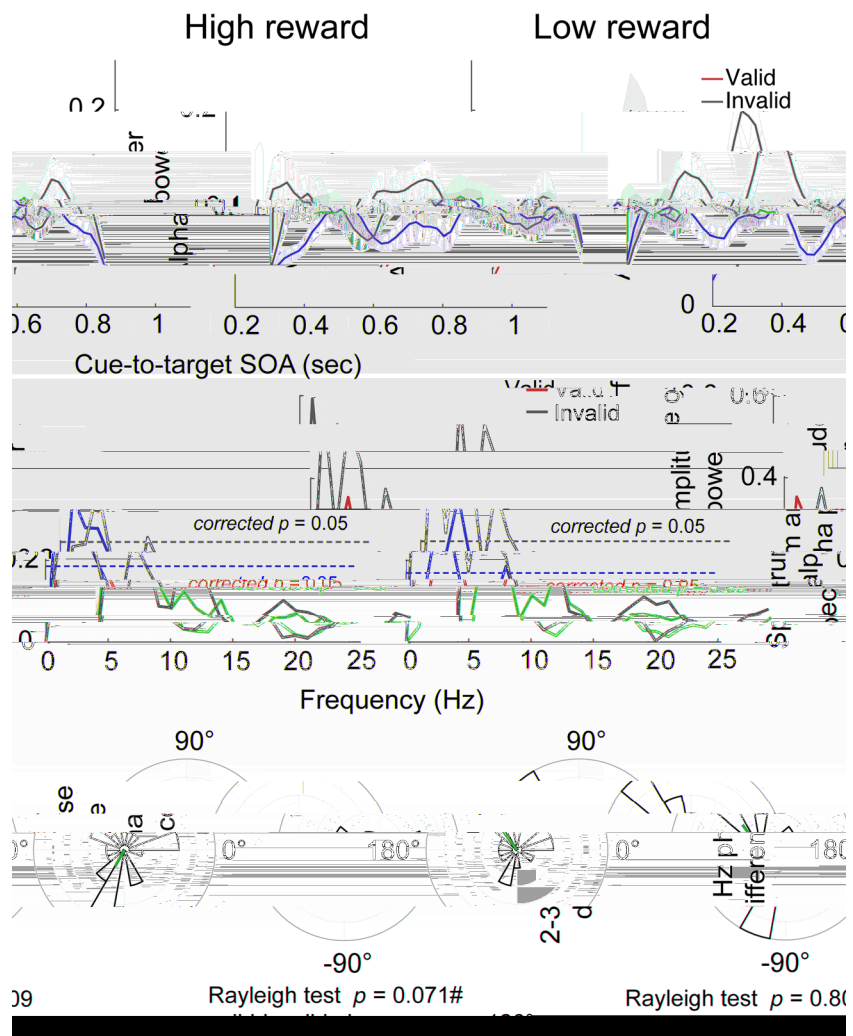


Fig. 4

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200[†], 2011[†], 2017).
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(& 2014).

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()

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31(10). // . /10.1 637/ . 031. 10

(2017).

(2010).
(2015).
23(1–2), 67–1. // . /10.1016/ . 2010.06.01
(2016).
2, 550–555. // . /10.1016/ . 2015.12.062
(2011).
10 (25), 10367–10371. // . /10.1073/ . 110404710
(2014).
I , - 6. // . /10.1016/ . 2014.0 .062
(2012).
(), 437–443. // . /10.1016/ . 2012.06.010
(1–5).
(1), 2 –300.
(200).

Supplementary Information

// . /10.375 / 13414-020-02226-5.

Acknowledgement

(31 61133012).

Open practices statement

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References

(2010).
(2015).
23(1–2), 67–1. // . /10.1016/ . 2010.06.01
(2016).
2, 550–555. // . /10.1016/ . 2015.12.062
(2011).
10 (25), 10367–10371. // . /10.1073/ . 110404710
(2014).
I , - 6. // . /10.1016/ . 2014.0 .062
(2012).
(), 437–443. // . /10.1016/ . 2012.06.010
(1–5).
(1), 2 –300.
(200).
31(10). // . /10.1 637/ . 031. 10
(2017).

, 20(7), 7- 6.
// , /10.103 / .456
, , & , . (200).
, 2 (30), 471- 4 0. // .
/10.1523/ .11 3-0 .200
, , & , . (2014).
, &
, 14(2), 635-646. // , /10.375 / 13415-014-
027 -7
, , & , . (200).
, 2 (24), 7 6 -7 76. // , /10.1523/
.0113-0 .200
, . (2006).
, 313(57 3),
1626-162 . // , /10.1126/ .112 115
, & , . (2014).
, 1 (), 414-421.
// , /10.1016/ . 2014.04.012
, & , . (2013).
, 5 -
72. // , /10.1016/ . 2012.12.005
, & , . (2015).
, 2 (16), 2065-2074. // , /10.1016/ . .
2015.06.022
, Q, , & , . (2010).
, 31(), 1141-1156. // , /10.1002/ .20 24
, . (2014).
, &
, . (2000).
, 3(3), 2 2-

... & ... (2012).
... 22(11), 1000-1004. // /10.1016/...
.2012.03.054

... & ... (2015).
... 2 (17), 2332-2337. // /
10.1016/... .2015.07.04

... & ... (2013).
... 33(26), 10625-10633. // /10.1523/
... .5575-12.2013

... & ... (2007).
... I 4(1),
177-1 0. // /10.1016/... .2007.03.024

... & ... (201).
... 30(1), 11 -12 .
// /10.1162/... _ 011 5
... (1 74). ... I(1), 1-15.
// /10.10 3/... /61.1.1

... & ... (2014).
... 5- 10- “ ”
24(), 1 6-200 // /10.10 3/... / 050
... (1 0).
... 32(1), 3-25. // /10.10 0/
0033555 00 24 231

... & ... (1 4).
... 32, 531-556.
... (2015).
... 112(27), 43 - 444.
// /10.1073/... _1520473112

... & ... (2011).
... (2), 2 7-
2 5. // /10.1016/... .2010.11.004

... & ... (2016).
... 2 (), 131 -1330. // /10.1162/...
00 73

... & ... (2013).
... 24(12), 236 -237 // /10.
1177/0 567 76134 0743

... & ... (200).
... 2I(), 1536-154 // /10.1162/...
200 .21125

... & ... (2005).
... I (12), 1 55-1 65. // /10.10 3/... 1 4 , _5h2/... _0& 79, 21 66.0 16332-1.175 ... 273()-2 2()63()-333(1)152