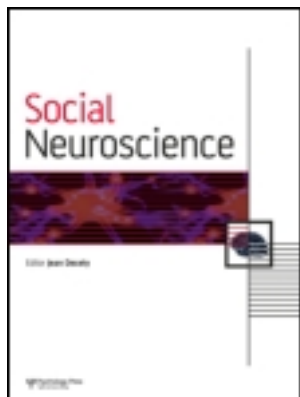


This article was downloaded by: [Peking University]

On: 04 April 2013, At: 15:59

Publisher: Routledge

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



Social Neuroscience

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/psns20>

Accessible cultural mind-set modulates default mode activity: Evidence for the culturally situated brain

Chenbo Wang^{a b}, Daphna Oyserman^c, Qiang Liu^d, Hong Li^d & Shihui Han^{a b}

^a Department of Psychology, Peking University, Beijing, China

^b PKU-IDG/McGovern Institute for Brain Research, Peking University, Beijing, China

^c Institute for Social Research, University of Michigan, Ann Arbor, MI, USA

^d School of Psychology, Liaoning Normal University, Dalian, China

Version of record first published: 13 Mar 2013.

To cite this article: Chenbo Wang, Daphna Oyserman, Qiang Liu, Hong Li & Shihui Han (2013): Accessible cultural mind-set modulates default mode activity: Evidence for the culturally situated brain, *Social Neuroscience*, 8:3, 203-216

To link to this article: <http://dx.doi.org/10.1080/17470919.2013.775966>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.tandfonline.com/page/terms-and-conditions>

This article may be used for research, teaching, and private study purposes. Any substantial or systematic reproduction, redistribution, reselling, loan, sub-licensing, systematic supply, or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae, and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand, or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

[illegible]

Figure 2. $\frac{1}{\lambda}$ versus $\frac{1}{\lambda_0}$ for $\lambda_0 = 0.001$ m and $\lambda_0 = 0.002$ m. The curves are calculated for $\lambda_0 = 0.001$ m and $\lambda_0 = 0.002$ m. The curves are calculated for $\lambda_0 = 0.001$ m and $\lambda_0 = 0.002$ m.

TABLE 3				
Differences in brain activations between priming conditions				
Brain region	BA	Independent self-construal		
		BA	BA	BA
Left inferior frontal gyrus	47	47	47	47
Left inferior parietal lobule	40	40	40	40
Left superior temporal gyrus	22	22	22	22
Left middle temporal gyrus	21	21	21	21
Left fusiform gyrus	37	37	37	37
Left hippocampus	34	34	34	34
Left amygdala	24	24	24	24
Left ventral striatum	1	1	1	1
Left ventral tegmental area	38	38	38	38
Left nucleus accumbens	1	1	1	1
Left prefrontal cortex	9	9	9	9
Left premotor cortex	6	6	6	6
Left primary motor cortex	4	4	4	4
Left primary somatosensory cortex	3	3	3	3
Left primary visual cortex	17	17	17	17
Left primary auditory cortex	41	41	41	41
Left secondary auditory cortex	42	42	42	42
Left superior auditory cortex	43	43	43	43
Left inferior auditory cortex	44	44	44	44
Left middle auditory cortex	45	45	45	45
Left superior auditory cortex	46	46	46	46
Left inferior auditory cortex	47	47	47	47
Left middle auditory cortex	48	48	48	48
Left superior auditory cortex	49	49	49	49
Left inferior auditory cortex	50	50	50	50
Left middle auditory cortex	51	51	51	51
Left superior auditory cortex	52	52	52	52
Left inferior auditory cortex	53	53	53	53
Left middle auditory cortex	54	54	54	54
Left superior auditory cortex	55	55	55	55
Left inferior auditory cortex	56	56	56	56
Left middle auditory cortex	57	57	57	57
Left superior auditory cortex	58	58	58	58
Left inferior auditory cortex	59	59	59	59
Left middle auditory cortex	60	60	60	60
Left superior auditory cortex	61	61	61	61
Left inferior auditory cortex	62	62	62	62
Left middle auditory cortex	63	63	63	63
Left superior auditory cortex	64	64	64	64
Left inferior auditory cortex	65	65	65	65
Left middle auditory cortex	66	66	66	66
Left superior auditory cortex	67	67	67	67
Left inferior auditory cortex	68	68	68	68
Left middle auditory cortex	69	69	69	69
Left superior auditory cortex	70	70	70	70
Left inferior auditory cortex	71	71	71	71
Left middle auditory cortex	72	72	72	72
Left superior auditory cortex	73	73	73	73
Left inferior auditory cortex	74	74	74	74
Left middle auditory cortex	75	75	75	75
Left superior auditory cortex	76	76	76	76
Left inferior auditory cortex	77	77	77	77
Left middle auditory cortex	78	78	78	78
Left superior auditory cortex	79	79	79	79
Left inferior auditory cortex	80	80	80	80
Left middle auditory cortex	81	81	81	81
Left superior auditory cortex	82	82	82	82
Left inferior auditory cortex	83	83	83	83
Left middle auditory cortex	84	84	84	84
Left superior auditory cortex	85	85	85	85
Left inferior auditory cortex	86	86	86	86
Left middle auditory cortex	87	87	87	87
Left superior auditory cortex	88	88	88	88
Left inferior auditory cortex	89	89	89	89
Left middle auditory cortex	90	90	90	90
Left superior auditory cortex	91	91	91	91
Left inferior auditory cortex	92	92	92	92
Left middle auditory cortex	93	93	93	93
Left superior auditory cortex	94	94	94	94
Left inferior auditory cortex	95	95	95	95
Left middle auditory cortex	96	96	96	96
Left superior auditory cortex	97	97	97	97
Left inferior auditory cortex	98	98	98	98
Left middle auditory cortex	99	99	99	99
Left superior auditory cortex	100	100	100	100

TABLE 4				
Brain activation correlated with independent self-construal score				
Brain region	BA	Independent self-construal		
		BA	BA	BA
Left inferior frontal gyrus	47	47	47	47
Left inferior parietal lobule	40	40	40	40
Left superior temporal gyrus	22	22	22	22
Left middle temporal gyrus	21	21	21	21
Left fusiform gyrus	37	37	37	37
Left hippocampus	34	34	34	34
Left amygdala	24	24	24	24
Left ventral striatum	1	1	1	1
Left ventral tegmental area	38	38	38	38
Left nucleus accumbens	1	1	1	1
Left prefrontal cortex	9	9	9	9
Left premotor cortex	6	6	6	6
Left primary motor cortex	4	4	4	4
Left primary somatosensory cortex	3	3	3	3
Left primary visual cortex	17	17	17	17
Left primary auditory cortex	41	41	41	41
Left secondary auditory cortex	42	42	42	42
Left superior auditory cortex	43	43	43	43
Left inferior auditory cortex	44	44	44	44
Left middle auditory cortex	45	45	45	45
Left superior auditory cortex	46	46	46	46
Left inferior auditory cortex	47	47	47	47
Left middle auditory cortex	48	48	48	48
Left superior auditory cortex	49	49	49	49
Left inferior auditory cortex	50	50	50	50
Left middle auditory cortex	51	51	51	51
Left superior auditory cortex	52	52	52	52
Left inferior auditory cortex	53	53	53	53
Left middle auditory cortex	54	54	54	54
Left superior auditory cortex	55	55	55	55
Left inferior auditory cortex	56	56	56	56
Left middle auditory cortex	57	57	57	57
Left superior auditory cortex	58	58	58	58
Left inferior auditory cortex	59	59	59	59
Left middle auditory cortex	60	60	60	60
Left superior auditory cortex	61	61	61	61
Left inferior auditory cortex	62	62	62	62
Left middle auditory cortex	63	63	63	63
Left superior auditory cortex	64	64	64	64
Left inferior auditory cortex	65	65	65	65
Left middle auditory cortex	66	66	66	66
Left superior auditory cortex	67	67	67	67
Left inferior auditory cortex	68	68	68	68
Left middle auditory cortex	69	69	69	69
Left superior auditory cortex	70	70	70	70
Left inferior auditory cortex	71	71	71	71
Left middle auditory cortex	72	72	72	72
Left superior auditory cortex	73	73	73	73
Left inferior auditory cortex	74	74	74	74
Left middle auditory cortex	75	75	75	75
Left superior auditory cortex	76	76	76	76
Left inferior auditory cortex	77	77	77	77
Left middle auditory cortex	78	78	78	78
Left superior auditory cortex	79	79	79	79
Left inferior auditory cortex	80	80	80	80
Left middle auditory cortex	81	81	81	81
Left superior auditory cortex	82	82	82	82
Left inferior auditory cortex	83	83	83	83
Left middle auditory cortex	84	84	84	84
Left superior auditory cortex	85	85	85	85
Left inferior auditory cortex	86	86	86	86
Left middle auditory cortex	87	87	87	87
Left superior auditory cortex	88	88	88	88
Left inferior auditory cortex	89	89	89	89
Left middle auditory cortex	90	90	90	90
Left superior auditory cortex	91	91	91	91
Left inferior auditory cortex	92	92	92	92
Left middle auditory cortex	93	93	93	93
Left superior auditory cortex	94	94	94	94
Left inferior auditory cortex	95	95	95	95
Left middle auditory cortex	96	96	96	96
Left superior auditory cortex	97	97	97	97
Left inferior auditory cortex	98	98	98	98
Left middle auditory cortex	99	99	99	99
Left superior auditory cortex	100	100	100	100

Regional homogeneity during the resting state

m	m	m	m	m
m	m	m	m	m

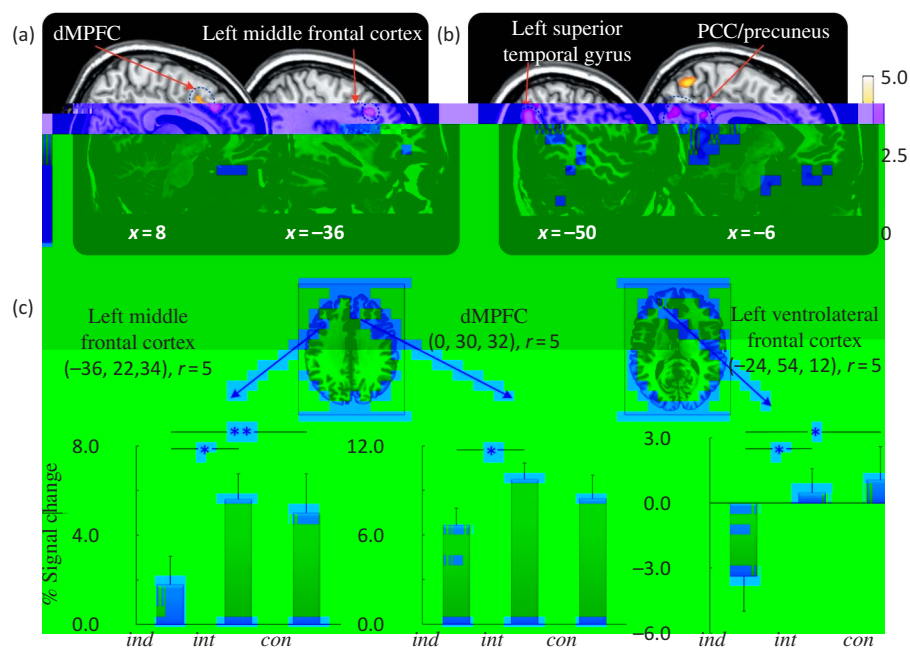


Figure 4.

Functional connectivity during the resting state

TABLE 5
Differences in ReHo during the resting state between each
two priming conditions

		<i>I</i> _{rest} (rest)	
<i>B</i> _{rest}	<i>BA</i>	<i>t</i> ₍₁₀₀₀₎ <i>p</i> -value	
$\frac{1}{2} > \frac{1}{3}$ $\frac{1}{2} > \frac{1}{4}$ $\frac{1}{2} > \frac{1}{5}$			
$\frac{1}{2} > \frac{1}{3}$ $\frac{1}{2} > \frac{1}{4}$ $\frac{1}{2} > \frac{1}{5}$ $\frac{1}{2} > \frac{1}{6}$ $\frac{1}{2} > \frac{1}{7}$ $\frac{1}{2} > \frac{1}{8}$			
$\frac{1}{2} > \frac{1}{3}$ $\frac{1}{2} > \frac{1}{4}$ $\frac{1}{2} > \frac{1}{5}$			

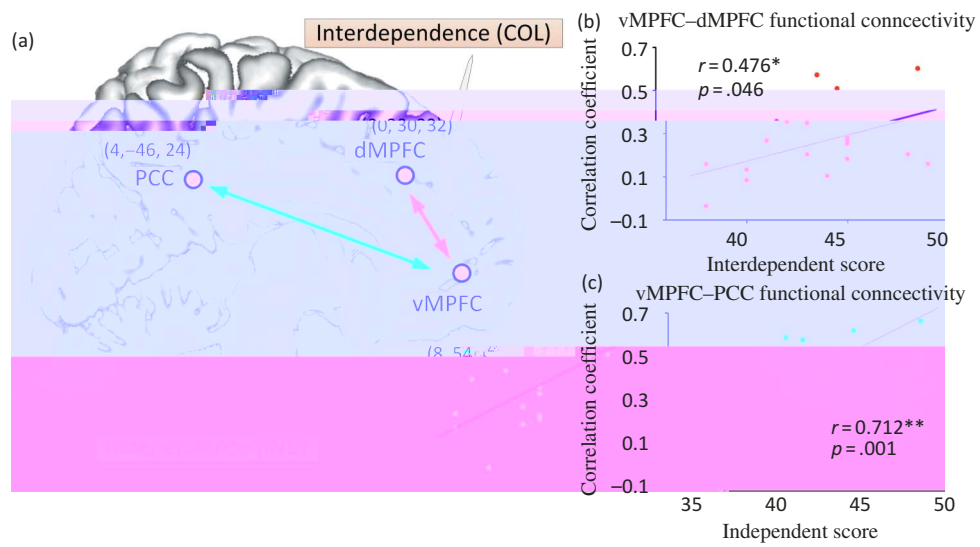


Figure 6.

DISCUSSION

[illegible][illegible]

3
m
9
m
A 64
m
m
m
m
5
m
m
m
27
m
m
A
55
m
B 125
C
14
m
A
62
m
302
m
E
38
m
E
A 62
m
B
77
m
C
22
m
m
m
171
C
A
B
134

m
m
98
m
m
5
m
A
A 99
m
m
A
13
m
C
C
40
m
C
C
42
m
m
m
m
m
18
31
m
31
m
m
m
m
E
m
22
mm
m
m
m
B
128
m
B
134
m
m
m
H
m
m
m
m
m
m
97
m
A
A 98

m m m
 m m m
 m m
 m m
 B 20
 m
 m m
 C
 23
 m m
 18
 m
 m m
 C A

m m
 4
 m
 7
 m
 m 4
 m
 18 22
 34
 m
 18 48