

Title: Target-oriented motor imagery for grasping action: different characteristics of brain activation between kinesthetic and visual imagery

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Supplementary Table 1. Brain regions and coordinates of peak activations in the common brain areas during visual imagery in the first- and third-person perspectives and kinesthetic imagery conditions versus the perceptual control condition

Region name	Hemi.	Peak T	MNI coordinates			BA
			x	y	z	
Inferior Parietal Lobule	L	6.05	-36	-48	50	BA40
Middle Frontal Gyrus	L	5.25	-26	-2	54	BA6

Supplementary Table 2. Brain regions and coordinates of peak activations in common brain areas during the motor execution and three types of motor imagery conditions versus the perceptual control condition

Region name	Hemi.	Peak T	MNI			BA
			coordinates			
			x	y	z	
<i>Motor and premotor cortex</i>						
Supplementary Motor Area	L	3.30	-12	-4	60	BA6
Precentral Gyrus	L	3.25	-30	-6	60	BA6
<i>Parietal cortex</i>						
Postcentral Gyrus	R	3.43	66	-14	38	BA3
Inferior Parietal Lobule	L	2.76	-40	-44	52	BA40

Supplementary Table 3. Brain regions and coordinates of peak activations in brain areas during the kinesthetic imagery condition versus visual imagery in the first- and third-person perspective

Contrast	Region name	Hemi.	Peak T	MNI coordinates			BA
				x	y	z	
KI > VI-1	<i>Motor and premotor cortex</i>						
	Rolandic Operculum	L	6.77	-60	6	8	BA6
	Supplementary Motor Area	L	6.31	-4	4	48	BA6
		R	6.01	2	2	48	BA6
	<i>Frontal cortex</i>						
	Inferior Frontal Gyrus	L	5.66	-56	10	12	BA44
	<i>Temporal cortex</i>						
	Superior Temporal Gyrus	L	6.12	-48	-14	6	BA22
		L	4.76	-64	-28	12	BA42
		R	5.60	50	14	-24	BA38
	Middle Temporal Gyrus	R	5.40	56	2	-20	BA21
	<i>Parietal cortex</i>						
	Supramarginal Gyrus	L	6.35	-58	-26	24	BA40
		R	4.87	60	-30	28	BA40
	Postcentral Gyrus	L	4.67	-60	-16	24	BA3
	<i>Limbic and Subcortical regions</i>						
	Cingulate Gyrus	L	4.67	-6	-16	46	BA24
		R	5.17	10	0	42	BA24
	Insula	L	4.45	-40	-12	6	BA13

<i>Cerebellum</i>						
	Declive	R	4.82	24	-62	-16
	Culmen	R	4.72	24	-54	-12
KI > VI-3	<i>Motor and premotor cortex</i>					
	Supplementary Motor Area	L	5.34	-8	2	48 BA6
		R	6.21	14	2	48 BA6
	Middle Frontal Gyrus	L	5.34	-28	16	60 BA8
	Rolandic Operculum	L	4.81	-54	6	12 BA6
<i>Frontal cortex</i>						
	Inferior Frontal Gyrus	L	4.65	-50	10	10 BA44
	Middle Frontal Gyrus	L	4.61	-36	44	18 BA10
	Superior Frontal Gyrus	L	4.41	-22	12	56 BA6
<i>Temporal cortex</i>						
	Superior Temporal Gyrus	L	5.62	-60	-32	16 BA42
		L	4.00	-62	-46	18 BA22
		R	4.36	58	-24	14 BA42
<i>Pareital cortex</i>						
	Supramarginal Gyrus	L	6.00	-58	-28	22 BA40
		R	5.40	62	-30	32 BA40
<i>Limbic and Subcortical regions</i>						
	Insula	L	7.88	-34	-16	4 BA13
	Lentiform Nucleus (Putamen)	L	7.30	-30	-18	4
	Lentiform Nucleus (Pallidum)	L	5.87	-24	-4	-2
	Cingulate Gyrus	R	5.18	12	4	44 BA24

Cerebellum

Culmen

L

4.87

-2

-48

-8

R

4.92

12

-48

-12
