

**Supplementary Table A**

<i>fMRI studies</i>	<i>left AIP</i>			<i>right AIP</i>		
	x	y	z	x	y	z
(Begliomini et al., 2007)	-33	-36	48			
(Binkofski et al., 1999)	-40	-43	41	40	-43	46
(Culham et al., 2003)	-38	-52	54	40	-54	52
(Ehrsson et al., 2000)				52	-44	48
(Ehrsson et al., 2001)	-40	-40	36			
(Frey et al., 2005)	-40	-36	45			
(Grefkes et al., 2002)	-40	-45	37			
(Jancke et al., 2001)	-44	-40	40	36	-44	44
(Kuhtz-Buschbeck et al., 2001)	-56	-40	52	52	-40	52
<b>Mean</b>	<b>-41.4</b>	<b>-41.5</b>	<b>44.1</b>	<b>44.0</b>	<b>-45.0</b>	<b>48.4</b>
<b>SD</b>	6.7	5.2	6.7	7.5	5.3	3.6
<i>Present study</i>						
<b>Mean</b>	<b>-43.4</b>	<b>-39.1</b>	<b>46.0</b>	<b>44.0</b>	<b>-40.5</b>	<b>44.6</b>
<b>SD</b>	7.4	7.1	4.4	3.7	2.6	4.8

Mean AIP coordinates as determined by fMRI studies investigating visually-guided grasping movements. The mean AIP coordinates and SD (n=10) gathered in the present study (last two rows) are given for comparison.

#### References

- Begliomini C, Wall MB, Smith AT, Castiello U (2007) Differential cortical activity for precision and whole-hand visually guided grasping in humans. *Eur J Neurosci* 25:1245-1252.
- Binkofski F, Buccino G, Posse S, Seitz RJ, Rizzolatti G, Freund H (1999) A fronto-parietal circuit for object manipulation in man: evidence from an fMRI-study. *Eur J Neurosci* 11:3276-3286.
- Culham JC, Danckert SL, DeSouza JF, Gati JS, Menon RS, Goodale MA (2003) Visually guided grasping produces fMRI activation in dorsal but not ventral stream brain areas. *Exp Brain Res* 153:180-189.
- Ehrsson HH, Fagergren E, Forssberg H (2001) Differential fronto-parietal activation depending on force used in a precision grip task: an fMRI study. *J Neurophysiol* 85:2613-2623.
- Ehrsson HH, Fagergren A, Jonsson T, Westling G, Johansson RS, Forssberg H (2000) Cortical activity in precision- versus power-grip tasks: an fMRI study. *J Neurophysiol* 83:528-536.
- Frey SH, Vinton D, Norlund R, Grafton ST (2005) Cortical topography of human anterior intraparietal cortex active during visually guided grasping. *Brain Res Cogn Brain Res* 23:397-405.
- Grefkes C, Weiss PH, Zilles K, Fink GR (2002) Crossmodal processing of object features in human anterior intraparietal cortex: an fMRI study implies equivalencies between humans and monkeys. *Neuron* 35:173-184.
- Jancke L, Kleinschmidt A, Mirzazade S, Shah NJ, Freund HJ (2001) The role of the inferior parietal cortex in linking the tactile perception and manual construction of object shapes. *Cereb Cortex* 11:114-121.
- Kuhtz-Buschbeck JP, Ehrsson HH, Forssberg H (2001) Human brain activity in the control of fine static precision grip forces: an fMRI study. *Eur J Neurosci* 14:382-390.