

Supplementary Table 1

Table 4.1: Activation coordinates for the Motion > Flicker contrast from the motion localizer task

<i>CHARM Atlas Designation</i>	<i>Peak x</i>	<i>Peak y</i>	<i>Peak z</i>	<i>Peak t-value</i>
Visual area 2 (V2)	23	-6	13	6.04
Dorsal visual area 3 (V3d)	18	-8	20	6.22
Dorsal visual area 4 (V4d)	21	-7	21	8.43
Middle temporal area (MT)	20	-5	21	9.69
Medial superior temporal area (MST)	-18	-1	20	5.62
Medial intraparietal area (MIP)	3	-6	24	4.48
Caudal dorsal premotor cortex (PMdc)	11	18	29	4.96
Area 45b	13	23	24	7.76
Area TEO	-22	1	16	7.90

Supplementary Table 2

Activation coordinates for the Perception > Control contrast

<i>CHARM Atlas Designation</i>	<i>Peak x</i>	<i>Peak y</i>	<i>Peak z</i>	<i>Peak t-value</i>
Primary visual area (V1)	-26	-8	14	3.92
Visual area 2 (V2)	-26	-6	15	6.06
Area IPa (IPa)	-18	2	14	4.42
Dorsal visual area 4 (V4d)	-23	-2	21	2.77
Middle temporal area (MT)	-16	-6	22	4.77
Medial superior temporal area (MST)	12	-1	22	5.14
Temporal parietooccipital associated area (TPO)	19	5	14	4.62
Area TEO (TEO)	28	1	15	5.47
Area TEm (TEm)	23	6	10	4.18
Floor of the superior temporal area (FST)	17	0	15	4.74
Middle lateral belt region (ML)	-24	5	21	4.69
Anterior lateral belt region (AL)	-25	13	15	5.15

Supplementary Table 3

Activation coordinates for the Simulation > Control contrast

<i>CHARM Atlas Designation</i>	<i>Peak x</i>	<i>Peak y</i>	<i>Peak z</i>	<i>Peak t-value</i>
Primary visual area (V1)	-19	-1	21	5.20
Visual area 2 (V2)	-26	-6	15	4.12
Visual area 3A (V3A)	10	-8	23	3.57
Dorsal visual area 4 (V4d)	27	-2	17	4.37
Middle temporal area (MT)	-18	-6	22	4.96
Medial superior temporal area (MST)	-19	-1	21	5.20
Temporal parietooccipital associated area (TPO)	-20	-2	21	5.18
Area V23	1	-5	20	5.58