

Table 6. Local maxima of brain regions crossing the statistical threshold in the SPM2 ANOVA comparing the effect of genotype at the two intronic SNPs (SNP17 and SNP19) on the fMRI data during working memory. Heterozygote subjects (GT) had greater activity than GG subjects. The Z value specifies the significance of observed differences; k= number of voxels within the cluster; x,y,z , Talairach coordinates of the centre of mass.

Region (Broadmann's area)	SNP 19 rs1076560				
	Talairach coordinates			k	Z value
	x	y	z		
Caudate Head / Putamen	-19	22	-4	127	4.1
Caudate Head / Putamen	19	18	-7	102	3.95
Middle Frontal Gyrus (BA 46)	-51	34	12	6	3.53
Middle Frontal Gyrus (BA 11)	-30	40	-2	13	3.53
Precentral Gyrus (BA 6)	-51	2	49	12	3.51
Anterior Cingulate (BA 24)	-11	20	22	4	3.49
Thalamus	-8	-11	1	3	3.24
Superior Frontal Gyrus (BA 10)	-30	49	22	3	3.21
Caudate Tail	-11	-20	22	7	3.2

Region (Broadmann's area)	SNP 17 rs2283265				
	Talairach coordinates			k	Z value
	x	y	z		
Caudate Head / Claustrum	-22	-19	9	55	3.71
Inferior Frontal Gyrus (BA 46)	-51	38	12	5	3.42
Posterior Cingulate (BA 23)	10	-24	22	3	3.36
Caudate Body	-10	-17	25	8	3.31
Superior Temporal Gyrus (BA 22)	-34	-50	13	3	3.26
Inferior Frontal Gyrus (BA 13)	34	19	9	3	3.14