**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						
	Х	У	Z	k	Z value		
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		

	Talaina da a a sudira da a							
	SNP 17 rs2283265							
Caudate raii	-11	-20			3.2			
Caudate Tail	-11	-20	22	7	3.2			
Superior Frontal Gyrus (BA 10)	-30	49	22	3	3.21			
Thalamus	-8	-11	1	3	3.24			
Anterior Cingulate (BA 24)	-11	20	22	4	3.49			
Precentral Gyrus (BA 6)	-51	2	49	12	3.51			
wilddie Frontal Gyrus (BA 11)	-30	40	-2	13	3.53			

Region (Broadmann's area)	X	у	Z	k	Z value			
	Talairach coordinates							
		SNP 17 rs2283265						
Caudate Tail	-11	-20	22	7	3.2			
Superior Frontal Gyrus (BA 10)	-30	49	22	3	3.21			
Thalamus	-8	-11	1	3	3.24			
Anterior Cingulate (BA 24)	-11	20	22	4	3.49			
Precentral Gyrus (BA 6)	-51	2	49	12	3.51			

	Talairach coordinates						
	SNP 17 rs2283265						
Caudate Tail	-11	-20	22	7	3.2		
Superior Frontal Gyrus (BA 10)	-30	49	22	3	3.21		
Thalamus	-8	-11	1	3	3.24		
Anterior Cingulate (BA 24)	-11	20	22	4	3.49		

Region (Broadmann's area)	SNP 17 rs2283265						
	Talairach coordinates						
	X	у	Z	k	Z value		
Caudate Head / Claustrum	-22	-19	9	55	3.71		
Inforior Frontal Gyrus (BA 46)	<b>E</b> 4	20	12	5	2 42		

Caudate Head / Claustrum	-22	-19	9	ວວ	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

-50

19

13

9

3

3.26

3.14

-34

34

Superior Temporal Gyrus (BA 22)

Inferior Frontal Gyrus (BA 13)