**Supplementary Table1** Assessment of the significance of SNP interactions (Trees) by adjusting for the marginal effects of SNPs from which the Trees were composed in replicate WTCCC cohort

	Before control for SNPs		After control for SNPs	
	OR (95%CI)	P value	OR (95%CI)	P value
Tree1	1.68	<0.0001	1.50	0.0004
	(1.47-1.92)		(1.20-1.87)	
Tree2	0.83	0.006	1.12	0.43
	(0.72-0.94)		(0.85-1.47)	
Tree3	1.56	<0.0001	1.13	0.31
	(1.36-1.79)		(0.89-1.42)	
Tree4	0.73	0.0005	1.15	0.53
	(0.61-0.87)		(0.74-1.80)	