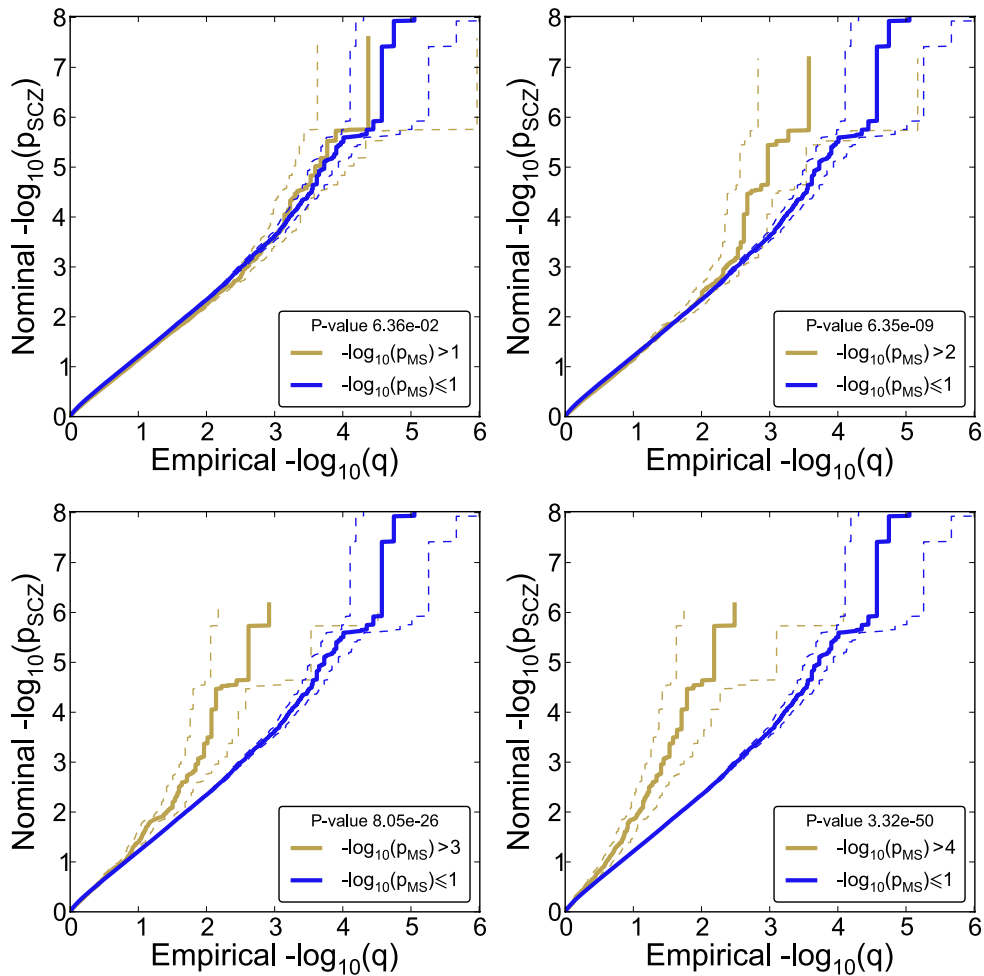


**Supplementary Figure 1**



Conditional Q-Q plot with 95% confidence interval of expected versus observed  $-\log_{10}(p)$ -values in schizophrenia (SCZ) as a function of significance of association with multiple sclerosis (MS) at the level of:  $-\log_{10}(p) \geq 1$ ,  $-\log_{10}(p) \geq 2$ ,  $-\log_{10}(p) \geq 3$  and  $-\log_{10}(p) \geq 4$  (red lines) compared with  $-\log_{10}(p) \geq 0$  (blue line). All results were corrected for genomic inflation and linkage disequilibrium (SNPs with  $r^2 > 0.2$  were removed). As illustrated by the non-overlapping confidence interval regions, there was significant enrichment in SCZ given MS association. Two sample Student's t-test p-value between each stratum and  $-\log_{10}(p) \leq 1$  are shown in the legends.