

**Table S7. Sex-differences in chromosome X, 7 and 17 association to WTCCC diseases**

<b>Disease s</b>	<b>X-chromosome<sup>s</sup></b>		<b>Chromosome 7<sup>s</sup></b>		<b>Chromosome 17<sup>s</sup></b>	
	<i>MP</i>	<i>FP</i>	<i>MP</i>	<i>FP</i>	<i>MP</i>	<i>FP</i>
AS	0.050 <sup>#</sup>	NS	NS	NS	NS	NS
BD	NS	NS	NS	NS	NS	NS
CAD	0.037 <sup>#</sup>	NS	NS	NS	NS	NS
CD	NS	NS	NS	NS	NS	NS
HT	NS	NS	NS	NS	NS	NS
MS	NS	NS	NS	NS	NS	NS
RA	NS	0.100 <sup>#</sup>	NS	NS	NS	NS
T1D	NS	NS	NS	NS	NS	NS
T2D	NS	NS	NS	0.046 <sup>#</sup>	NS	NS

<sup>s</sup> Empirical p-value estimation based on 100 permutations

<sup>#</sup> Empirical p-values  $\leq 0.1$  were replaced with empirical p-values estimated with 1,000 permutations