Table 1: Fishers exact test for expected number of variants in each minor allele frequency bin

	Bin	Prop. fastGWA	Tot. fastGWA	Total fastGWA bin	Prop. PGS-LMM	Tot. PGS-LMM	Tot. PGS-LMM bin	OR	CI	P.value
1	<1%	0.01	126210	1096	0.02	30682	650	2.44	2.209-2.693	0.00
2	1-5%	0.10	115763	11543	0.10	28598	2734	0.96	0.9175-1.002	0.06
3	5-10%	0.14	111480	15826	0.15	27312	4020	1.04	0.9988-1.076	0.06
4	10-20%	0.28	99667	27639	0.36	22969	8363	1.31	1.276-1.351	0.00
5	20-50%	1.27	56104	71202	0.99	15767	15565	0.78	0.7588-0.7974	0.00

Table 2: Prediciton results for 74,000 top independent loci in each method

	Set	Threshold	R2	P	Coefficient	Standard.Error	Num_SNP
1	fastGWA	0.00	0.13	0	8956.95	80.34	15750
2	fastGWA	0.05	0.13	0	29309.80	259.44	72216
3	fastGWA	0.10	0.13	0	29886.20	264.36	74000
4	PGS-LMM	0.00	0.13	0	11044.80	97.52	17856
5	PGS-LMM	0.05	0.14	0	35111.00	298.84	74000