Supplementary Tables

Table S1: Credible set sizes from the three fine-mapping methods, across datasets with different genotyping or imputation strategies. The sizes of the credible sets are roughly the same across all the methods and datasets.

Method	Mean SNPs/set	Median SNPs/set	95% quantile	
J-test LBC-1KG	5	1	16	
J-test LBC-HRC	5	1	19	
J-test LBC-WGS	4	1	14	
BIMBAM LBC-1KG	6	2	21	
BIMBAM LBC-HRC	6	2	23	
BIMBAM LBC-WGS	5	1	20	
BSLMM LBC-1KG	5	2.5	14	
BSLMM LBC-HRC	5	2	15	
BSLMM LBC-WGS	4	1	10	

Table S2: The mean non-reference discordance rate (NRD) in genotypes between the whole genome sequence, and the genotyped and imputed SNPs, for all common SNPs in the genome (MAF>0.1).

Dataset	Mean NRD	Mean NRD	
	for Genotyped SNPs	for Imputed SNPs	
LBC-HRC	0.4%	1.6%	
LBC-1KG	0.4%	3.2%	

Table S3: Fine-mapping results from 1000 replicates of three simulated traits, using two datasets. The coverage of the causal variant reaches approximately 95% in all of the cases. Demonstrating that the three fine-mapping methods work as expected under ideal conditions. Comparing the size of the sets we see that the three methods all perform generally on par with one another.1

(a)
$$h^2 = 0.2$$

	Method	Coverage	Mean SNPs/set	Median SNPs/set	95% quantile
N = 3781	J-Test	97%	7	1	31
	BIMBAM	97%	5	2	20
	BSLMM	97%	6	2	22
N = 1366	J-Test	95%	15	3	48
	BIMBAM	97%	10	4	38
	BSLMM	97%	13	4	38

(b)
$$h^2 = 0.1$$

	Method	Coverage	Mean SNPs/set	Median SNPs/set	95% quantile
N = 3781	J-Test	97%	19	3	57
	BIMBAM	97%	10	3	35
	BSLMM	97%	13	3	44
N = 1366	J-Test	94%	20	7	80
	BIMBAM	96%	16	7	61
	BSLMM	95%	17	8	64

(c)
$$h^2 = 0.05$$

	Method	Coverage	Mean SNPs/set	Median SNPs/set	95% quantile
N = 3781	J-Test	96%	19	6	78
	BIMBAM	97%	14	6	50
	BSLMM	97%	15	6	61
N = 1366	J-Test	96%	33	12	108
	BIMBAM	97%	23	11	79
	BSLMM	97%	28	11	87