Variant Caller Benchmark Test

Variant Count:

	Output from FreeBayes or HaplotypeCaller	Output from HaploPrep	
	vcf and annovar.txt	InformativeSNPs.txt and MpileupOutput.txt	InformativeSNPs.vcf and MpileupInformativeSNPInput.txt
FreeBayes	39268	16752	15384
HaplotypeCaller	35619	16937	15520

Variants removed with Filter 1
FreeBayes: 22516
HaplotypeCaller: 18682

Variants removed with Filter 2
FreeBayes: 1368
HaplotypeCaller: 1417

Filter 1: *Filters for SNPs with a population allele frequency ≥ 1% in the 1000 Genomes database and read allele frequency between 30-70% (heterozygous).*
Filter 2: *Filters SNPs based on actual read data; filters for variants with read allele frequency between 40-60% and read depth ≥ 10.*

InformativeSNPs.vcf comparison:

	Total SNPs Found	Duplicates	Duplicates Removed	Overlapping SNPs	Unique SNPs	**% Overlap**	**% Unique**
FreeBayes	15384	17	15367	15176	191	**98.76%**	**1.24%**
HaplotypeCaller	15520	0	15520	15176	344	**97.78%**	**2.22%**