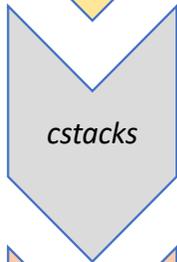
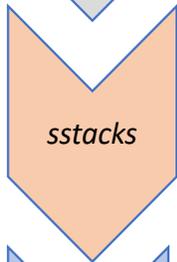


- Aligned data were grouped into loci and polymorphic nucleotide sites were identified for each individual. Default settings were used.



- Loci were grouped together across each individual. A consensus catalogue was created. The number of mismatches allowed between sample loci when building the catalogue (*n*) was set to 3.



- Loci of each individual were tested if they matched against the consensus catalogue. Default settings were used.



- Genotype and haplotype corrections were made based on the population-wide accumulated data. The consensus catalog loci were filtered based on the mean log likelihood of the catalogue locus in the population (*--lnl_filter*). The minimum log likelihood was set to -20 (*--lnl_lim*). The proportion of loci in population was set to 0.25 that must be confounded relative to the catalog locus (*--conf_lim*). Non-biological haplotypes were pruned out (*--prune_haplo*). *cstacks* and *sstacks* were rerun to build the consensus catalogue loci and to test the matches across the individuals and the catalogue.



- The population genetic statistics were calculated based on the population map showing which individuals belong to which population. Individuals that belong to a variety were grouped within the same population. The minimum number of populations a locus must be present in to process a locus was set to 1 (*--p*). The minimum percentage of individuals in a population required to process a locus for that was set to 50% (*--r*). The minor allele frequency was set to 0.05 (*--min_maf*). F statistics (Fixation index (F_{ST})) were calculated, and the maximum cut-off *p*-value was set to 0.05 (*--fstats* and *--p_value_cut-off*). Private alleles were identified specifically for every variety. The proportion of heterozygous and homozygous alleles observed in every variety (Obs Het and Obs Hom), and the heterozygosity ($2pq$) and the homozygosity ($1-2pq$) expected under Hardy-Weinberg equilibrium (Exp Het and Exp Hom), the frequency of the most frequent allele at each locus (*P*), the nucleotide diversity (Π), and the inbreeding coefficient of individual relation to the subpopulation (F_{IS}) were calculated for all identified alleles in every variety. A phylip file was created to show the variant sites across varieties.