# Sambar workflow

#### Load SambaR into R

source('C:/path/to/dir/SAMBAR.txt')
SambaR can be downloaded from Github:
https://github.com/mennodejong1986/SambaR

## Install and load dependencies

getpackages(mylib=NULL)

### Import data (binary PED/MAP) into R

setwd('C:/path/to/workdir/')

Or instead convert from an existing genlight object: genlight2sambar(genlight\_object=NULL)

#### Filter data

filterdata(indmiss=0.25,snpmiss=0.1,min\_mac=2,dohefilter=TRUE,snpdepthfilter=TRUE,min\_spacing=500,nchroms=NULL,silent=TRUE)
Included: quality control, F, HWE, relatedness

## **Analyze data**

### population structure

findstructure(Kmax=6,add\_legend=TRUE, legend\_pos='bottomright',legend\_cex=3, symbol\_size=3)

Included: PCoA, PCA, DAPC, CA, MDS, admixture analyses (LEA), Tess3r

# population differentiation

calcdistance(nchroms=NULL)

Included: Nei's D, (sliding window) Wright's Fst, Nei's Fst, Weir & Cockerham Fst, ABBA-BABA

## genetic diversity

calcdiversity(nrsites=NULL,legend cex=2.5)

Included: SFS, heterozygosity, nucleotide diversity, Watterson's theta, Tajima's D, private alleles, proportion segregating sites

#### selection analyses

# Sambar output









