Identity Analysis of APCL

2018-06-07

This identity analysis was conducted by KAC on the individuals included in APCL sequencing runs 03-17 (majority of individuals captured in 2012-2015, <100 from 2016).

- 1. Add "pop" line to genepop in text editor. File "SNP.DP3g95p5maf05HM_seq_17_03.LDpruned.beta.noissues.IDfin.gen" is in the id_support folder.
- 2. In cervus, **convert genepop** to cervus file using the "Tools" menu. This takes seconds. File "SNP.DP3g95p5maf05HM_seq_17_03.LDpruned.beta.noissues.IDfin.csv" is in the id_support folder
- note the number of loci 2253
- Using the "Analysis" menu, conduct an allele frequency analysis.
 This takes seconds.

File "SNP.DP3g95p5maf05HM_seq_17_03.LDpruned.beta.noissues.IDfin_AF.alf" is in the id_support folder.

- i. use the file just created by converting the genepop.
- ii. make sure "header row" and "read locus names" are checked.
- iii. ID is in column 2
- iv. first allele is in column 3
- v. fill in the number of loci listed in the conversion step
- vi. save as input_file_name_AF
- vii. Do not do Hardy Weinberg
- viii. Do not estimate null allele frequency
 - 4. Using the "Analysis" menu, conduct **identity analysis**. MRS notes from the past said this took 30 seconds with 809 loci, KAC notes from 2253 loci in this analysis took 1 minute, 20 seconds. Files "SNP.DP3g95p5maf05HM_seq_17_03.LDpruned.beta.noissues.IDfin.ident.txt" and "SNP.DP3g95p5maf05HM_seq_17_03.LDpruned.beta.noissues.IDfin.ident.csv" are in the id_support folder. i.Genotype file and allele frequency info will be automatically populated, should match what you've done for those steps.
 - ii. Header should be checked
- iii. ID in column 2
- iv. First allele in column 3
- v. Do not test sexes separately
- vi. Save summary output file using the same naming scheme
- vii. Minimum number of matching loci should be 80% of the total number of loci 1802
- viii. Allow fuzzy matching with 225
- ix. Do not show all comparisons
- 5. Run the identity analysis. R script.