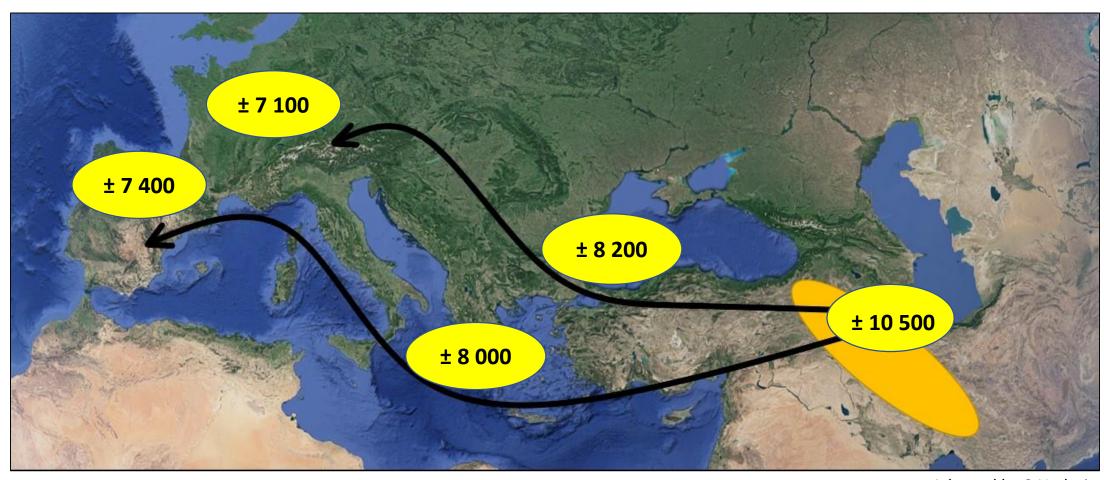
Phylogenetic analysis of mitochondrial DNA in the East Adriatic goats

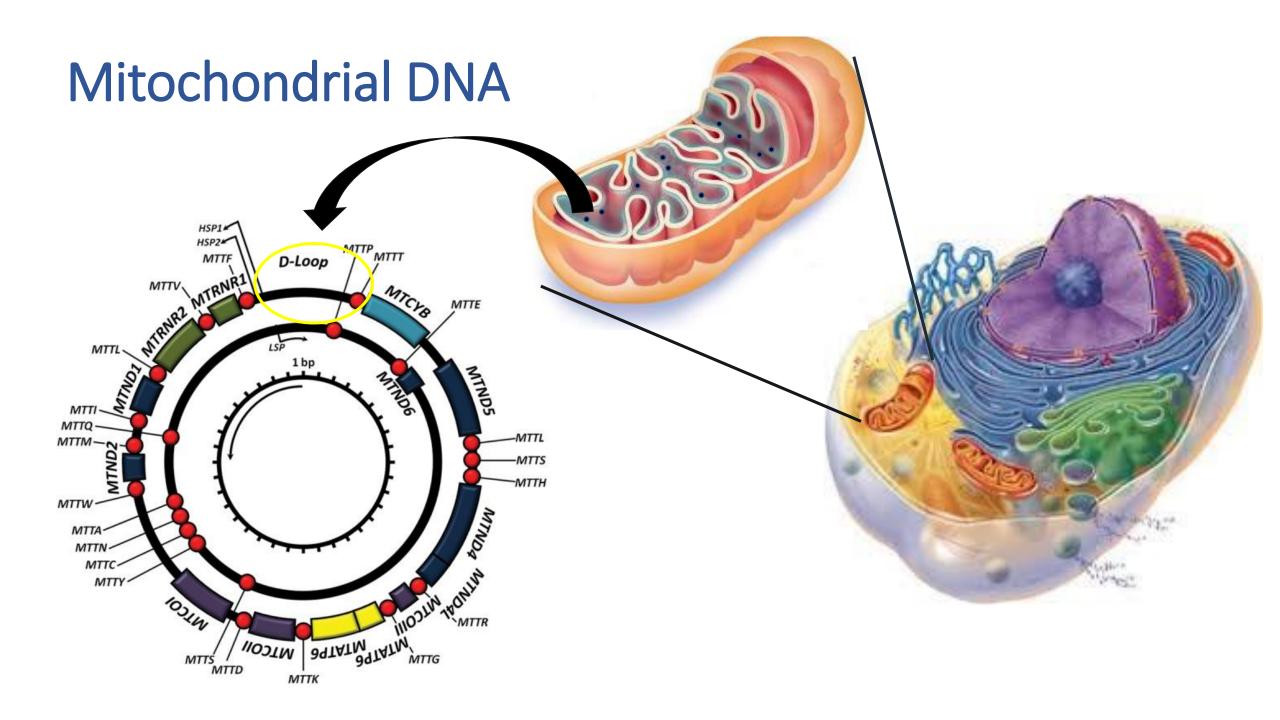
Ivana Drzaic, Dinko Novosel, Ino Curik, Vlatka Cubric-Curik
University of Zagreb, Faculty of Agriculture



Goat domestication routes



Adopted by S.Naderi



Material and methods

- 25 Croatian spotted goats
- 65% of the breeding area
- 1435 heads (HPA, 2017) under selction



Material and methods







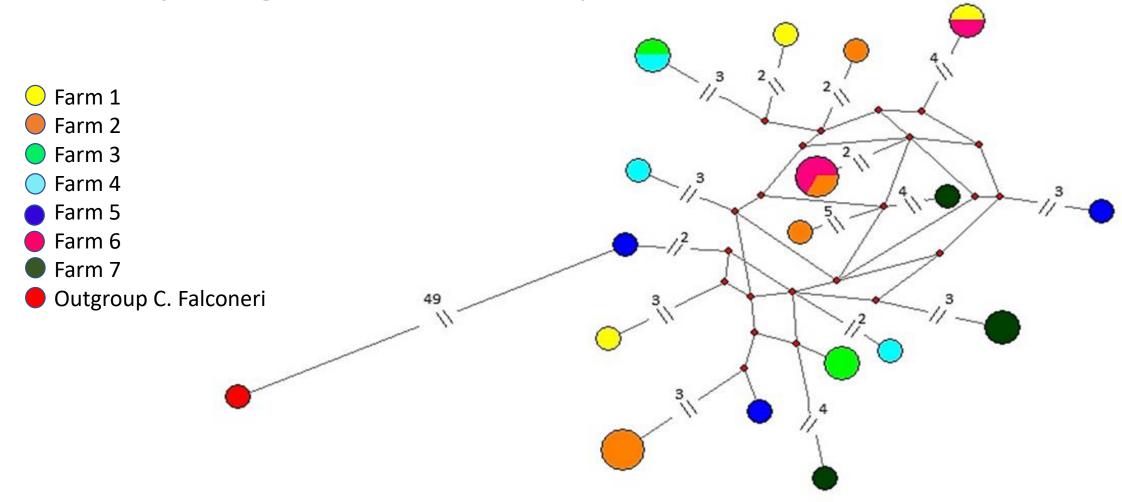
- 660 bp D-loop fragment
- Goat, ancient goat and sheep sequences from Genbank

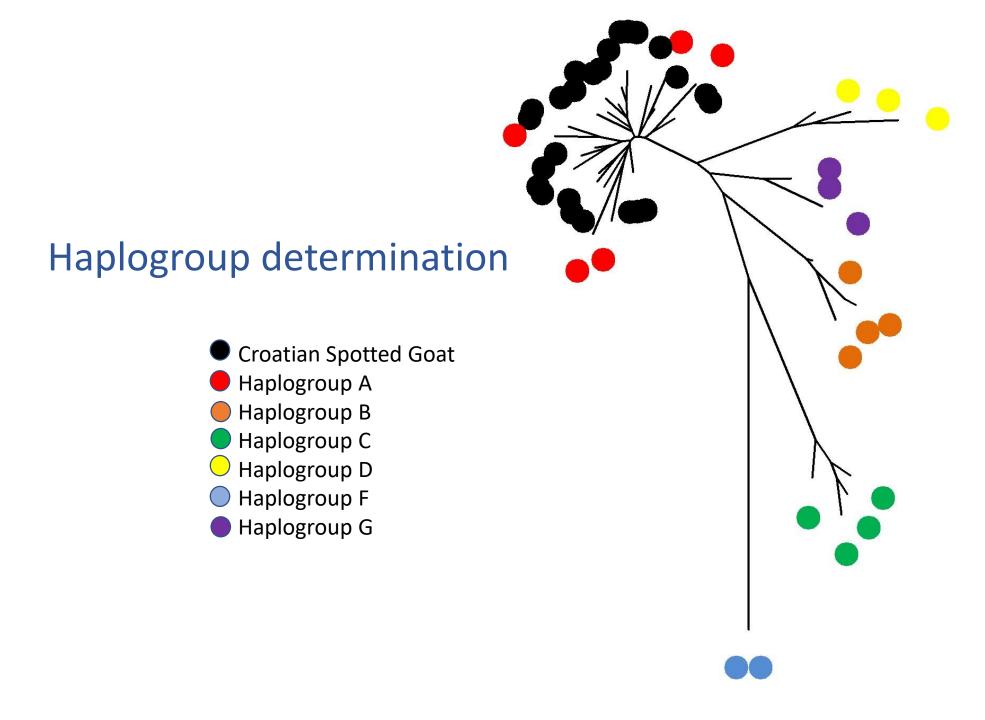




Results

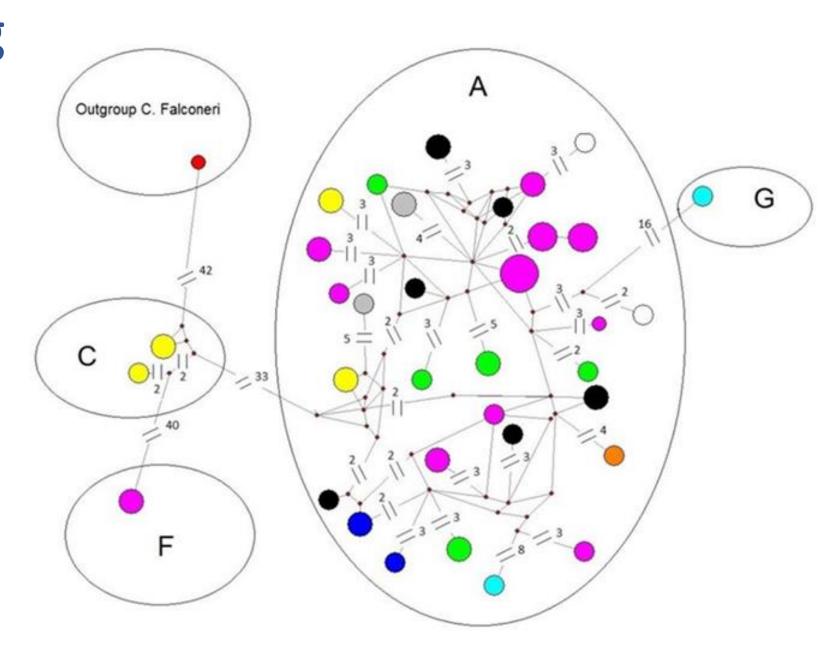
Median-joining tree of Croatian Spotted Goat





Median-joining network

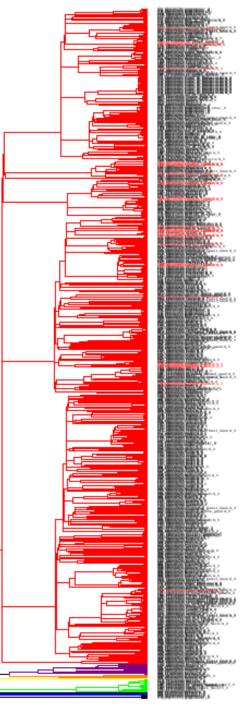
- Croatia
 - Albania
 - Greece
 - Switzerland
 - Italy
 - Egypt
 - Romania
 - Spain
 - Austria
 - Outgroup C. Falconeri



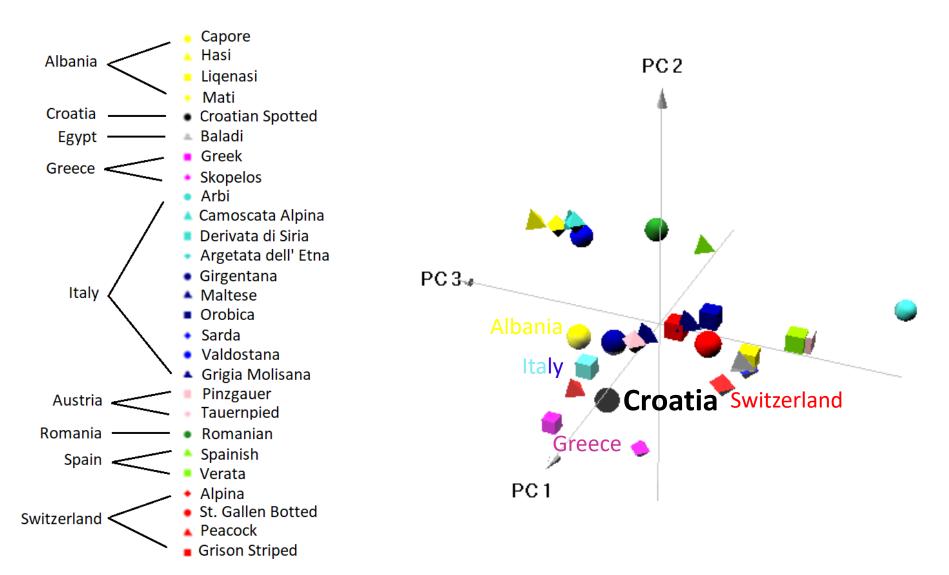
Calibrated phylogenetic tree



B haplogroup
C haplogroup
D haplogroup
G haplogroup
F haplogroup



Principal component analysis



Conclusion

Croatian Spotted goat

has preserved high genetic diversity

has high heterogenic origin

 is closest to Albanian, Grecee and Italian goats by mtDNA

 has low phylogeographic structure caracteristic to all goats

Thank you for your attention!

