Wolf occurrences in Northern Hungary

Foundation for the Large Carnivores in Hungary

After the 2nd World War we know about a very few wolf sightings. Actually most of them were illegal killings and they haven't been publicized.

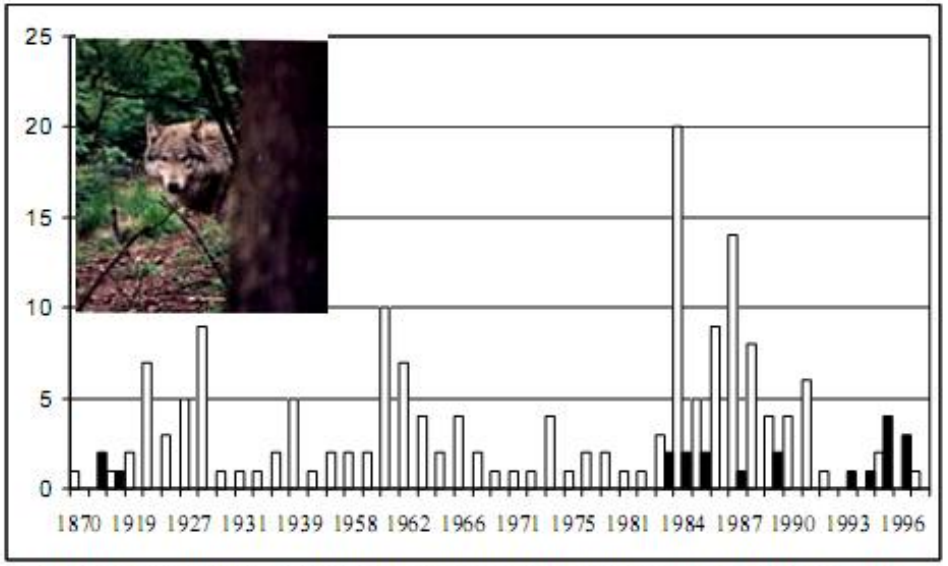


Chart 2: Observations of the large carnivores in Hungary between 1900 and 2000 (solid bars: lynx observation, empty bars: wolf observation)

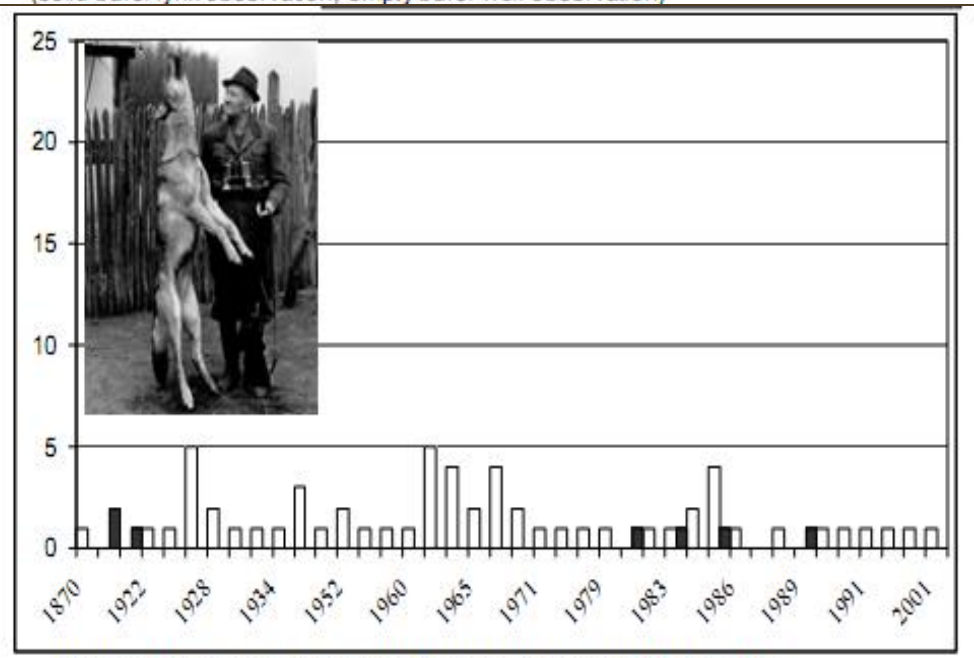
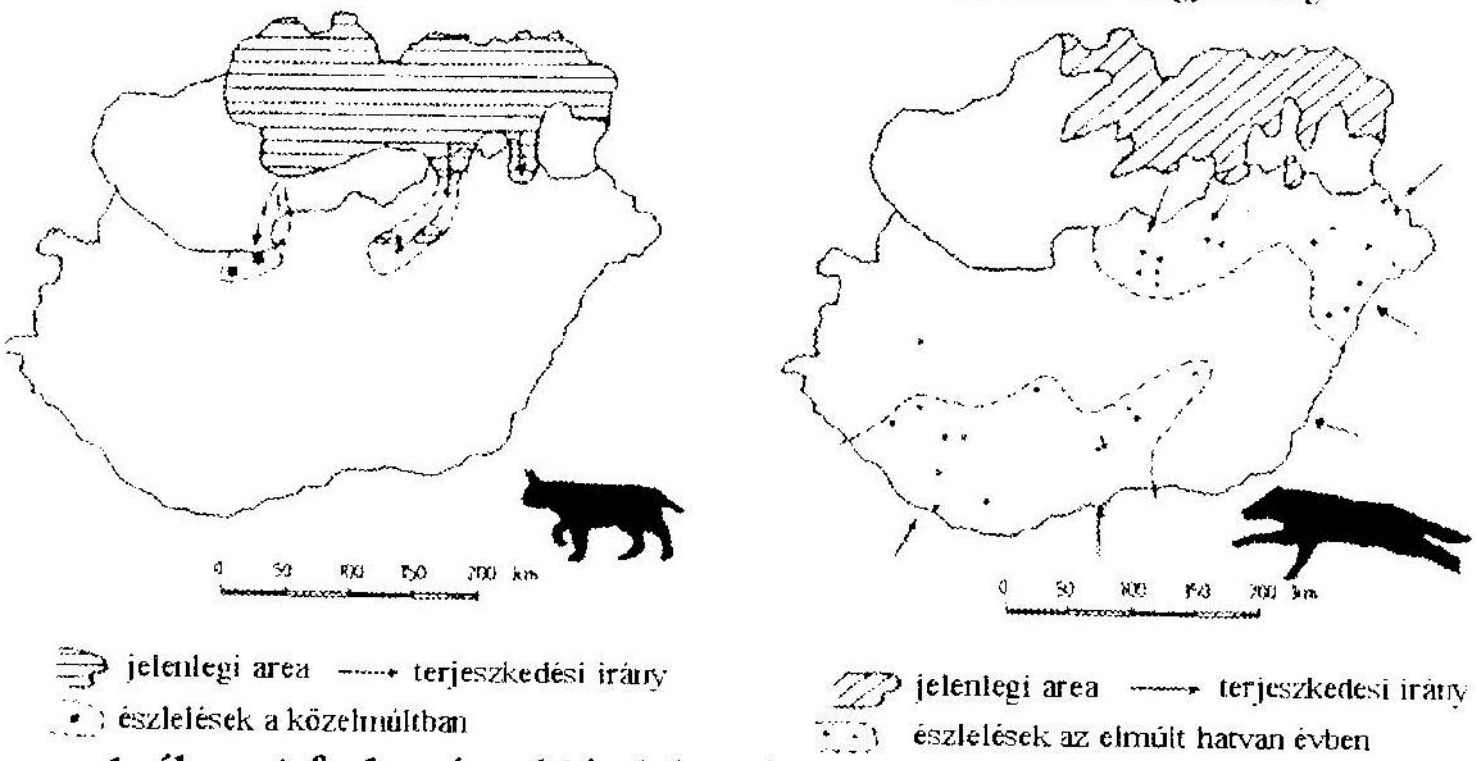


Chart 3. Large carnivores shot in Hungary between 1900 and 2000 (solid bars: shot lynx, empty bars: shot wolf)

- **Directions of the potential dispersal of wolf and lynx**



1. ábra: A farkas és a hiúz lehetséges terjeszkedésének irányai

Slovakia Hungary

2001-2006: LIFE ’Founding the base of long term large carnivore conservation in Hungary’

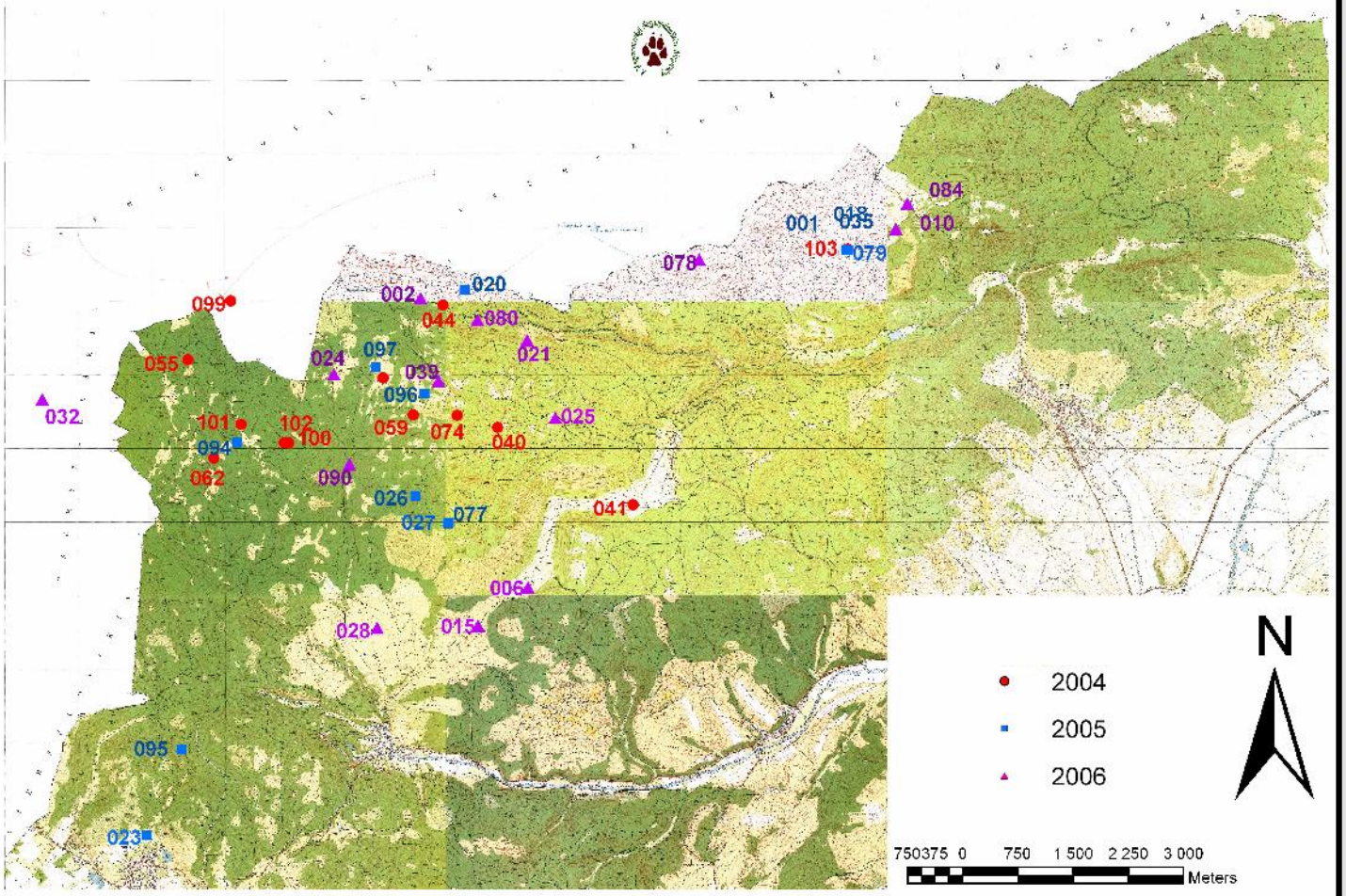
New approach:

Genetical research in cooperation with

Molecular Zoology Unit of the Technical University of München

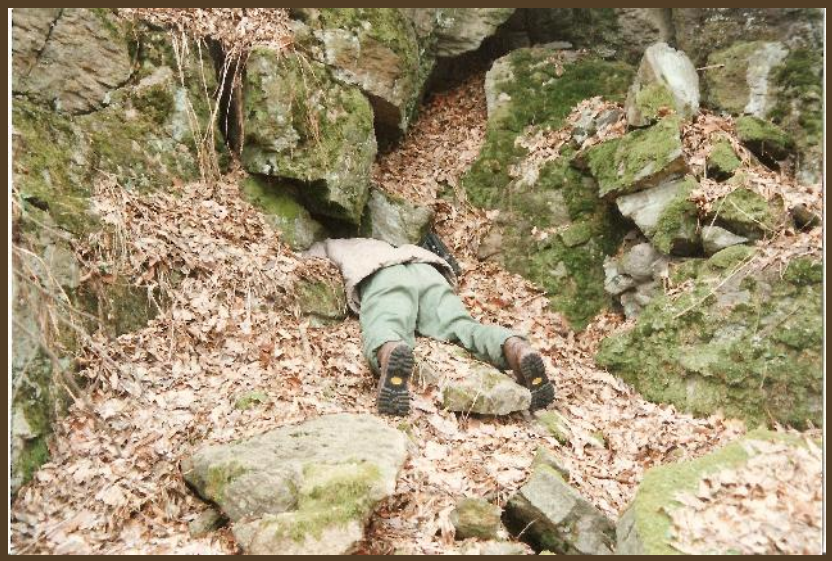
Arieal photo of the Slovak Karst and Aggtelek Karst

Wolf DNA samples in the 2004-2005-2006 years from Hungary (Aggtelek-karst)



Monitoring

Monitoring



DNA research

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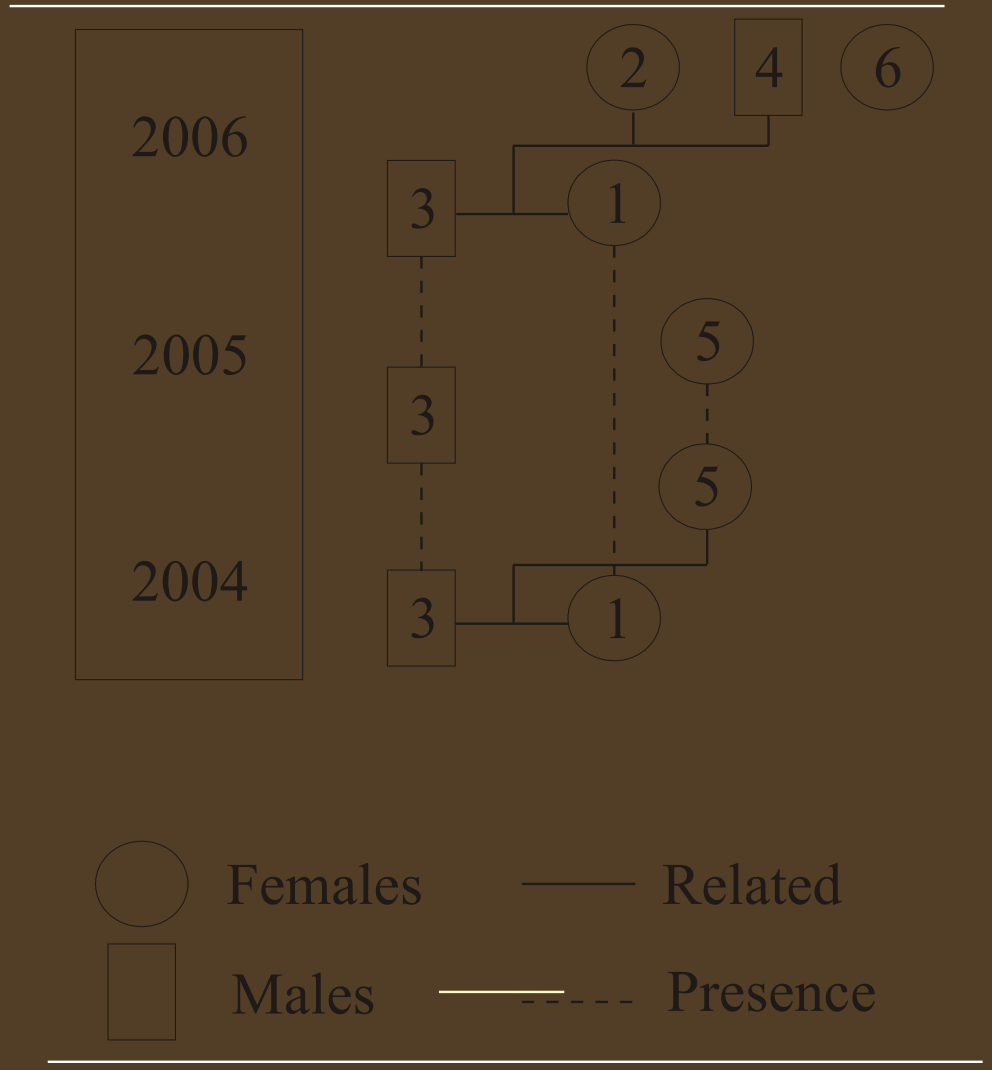
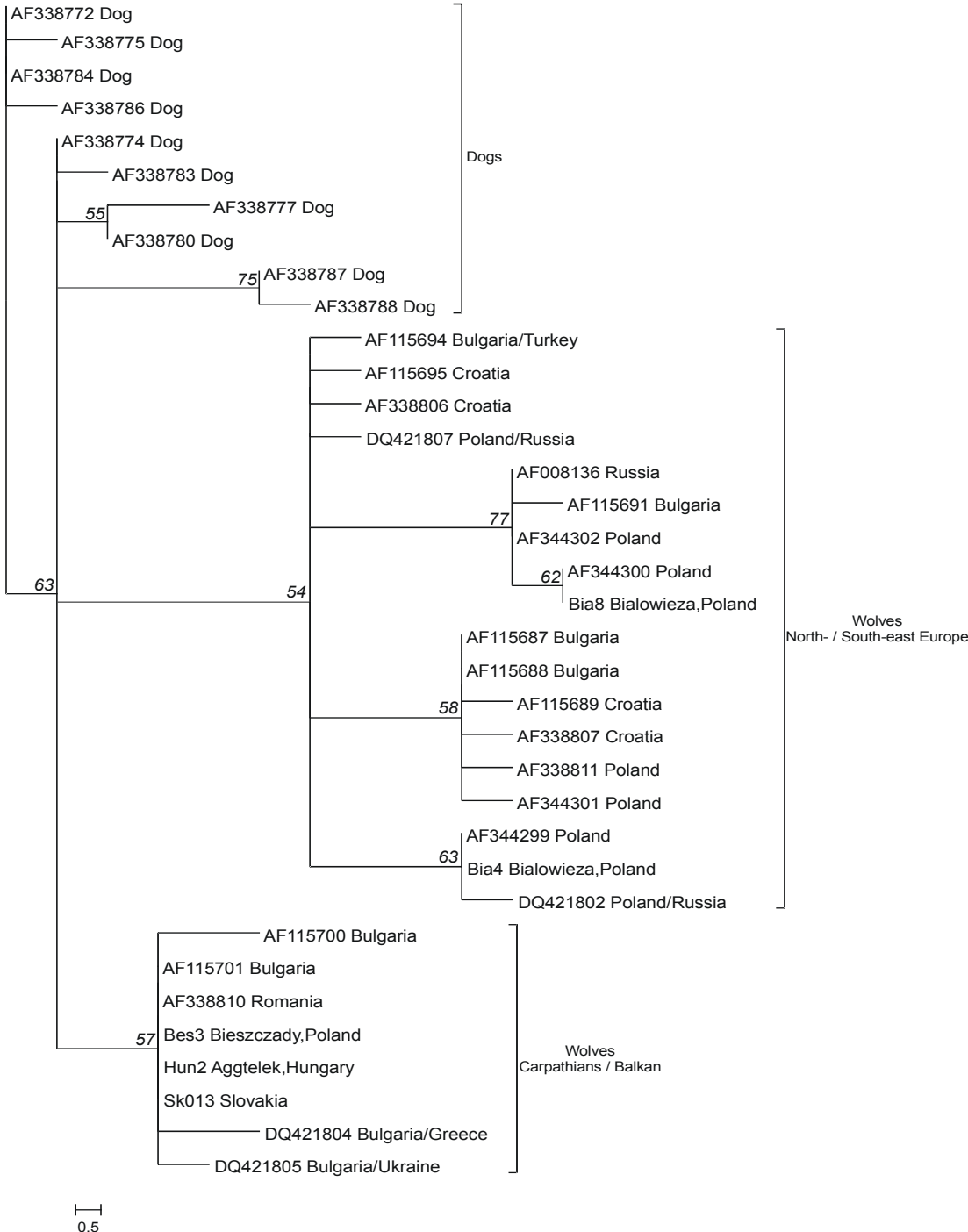
Results

Detected wolf genotypes and their sex with the year of their presence in the Aggtelek region. Related wolves are connected with a straight line.



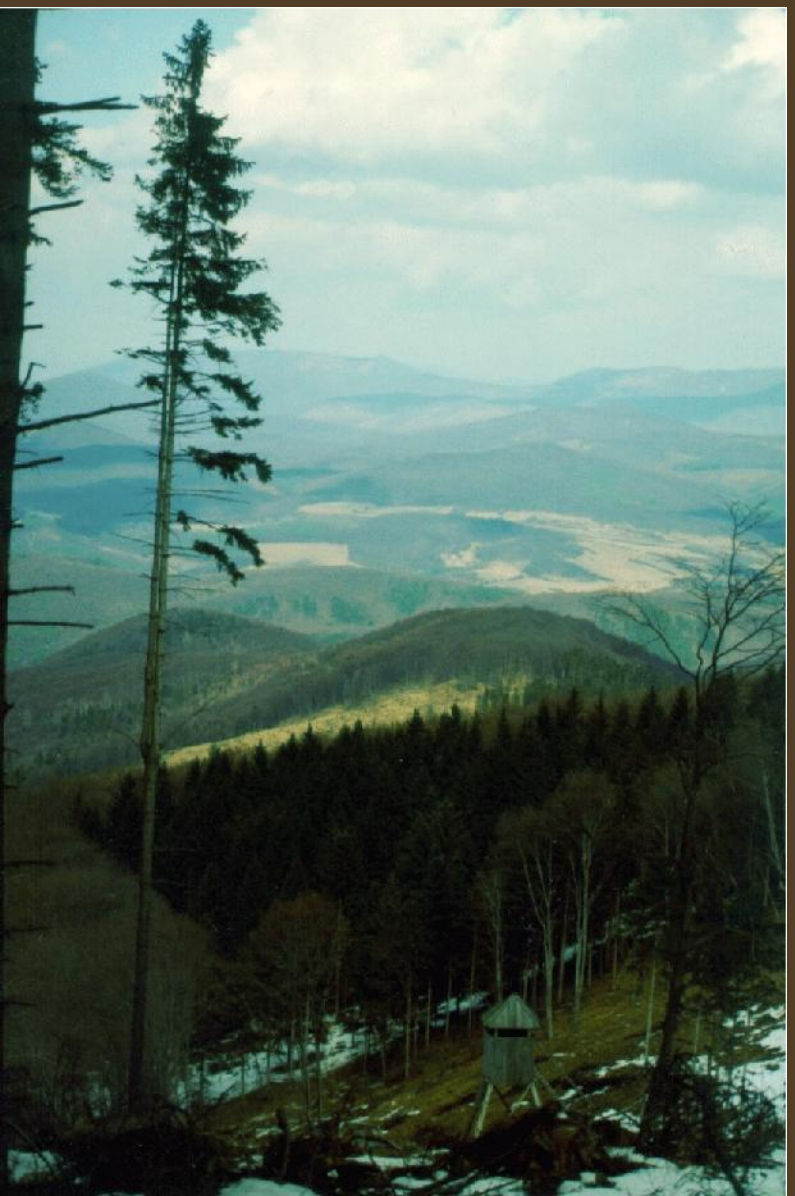
Phylogenetic relation of East European wolf haplotypes based on mtDNA control region sequences. The percentage of replicated trees in which the associated taxa clustered together in the bootstrap test (1,000 replicates) is shown next to the branches.



Conclusion

- The genetic research have proved the presence of resident wolves in Northern Hungary.
- The mtDNA research showed cohesion of maternal lineages across the Carpathian wolf population to that from northern Balkan Peninsula. Further research is needed.

Threatening factors



Thank you!

Good bye!