



Archaeozoological Perspective on Swines: Neolithic Migrations in Romania

Monica Luca, Margareta Simina Stanc, Luminita Bejenaru

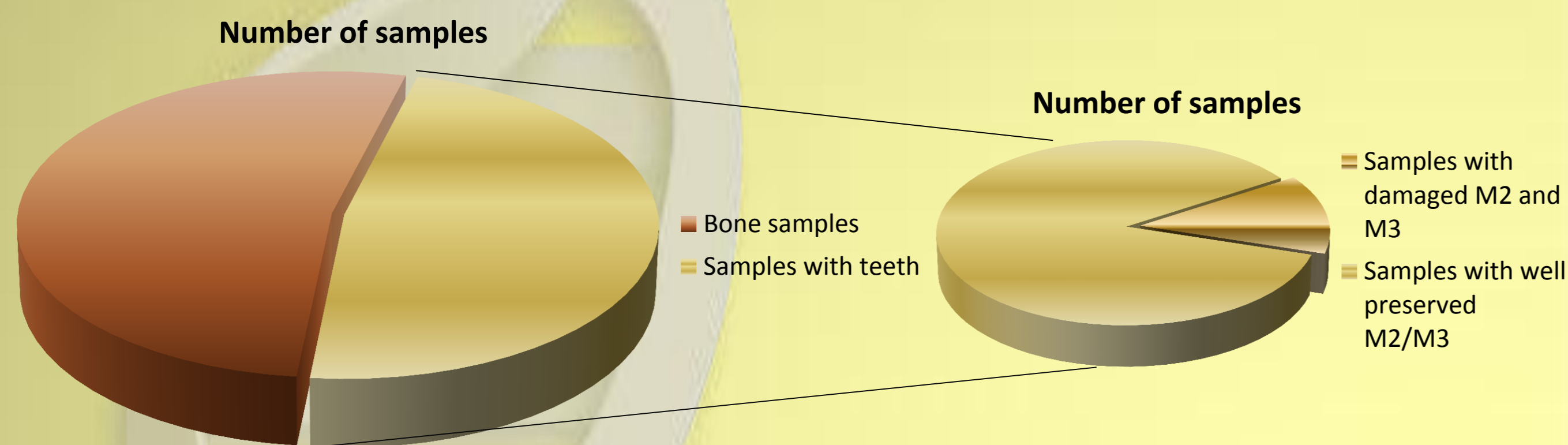
Zooarchaeological evidence have shown so far a gradually developing interest of humans in raising pigs during the Neolithic, which contributes also to a sedentary life.

This aspect is also present in Romania, where the frequency analysis for the domestic animal remains showed a higher prevalence of cattle, goats and sheep, opposite to the low percentage of pigs in the early Neolithic, and a reverse situation towards the Chalcolithic, when the pigs gain much more territory in human life.

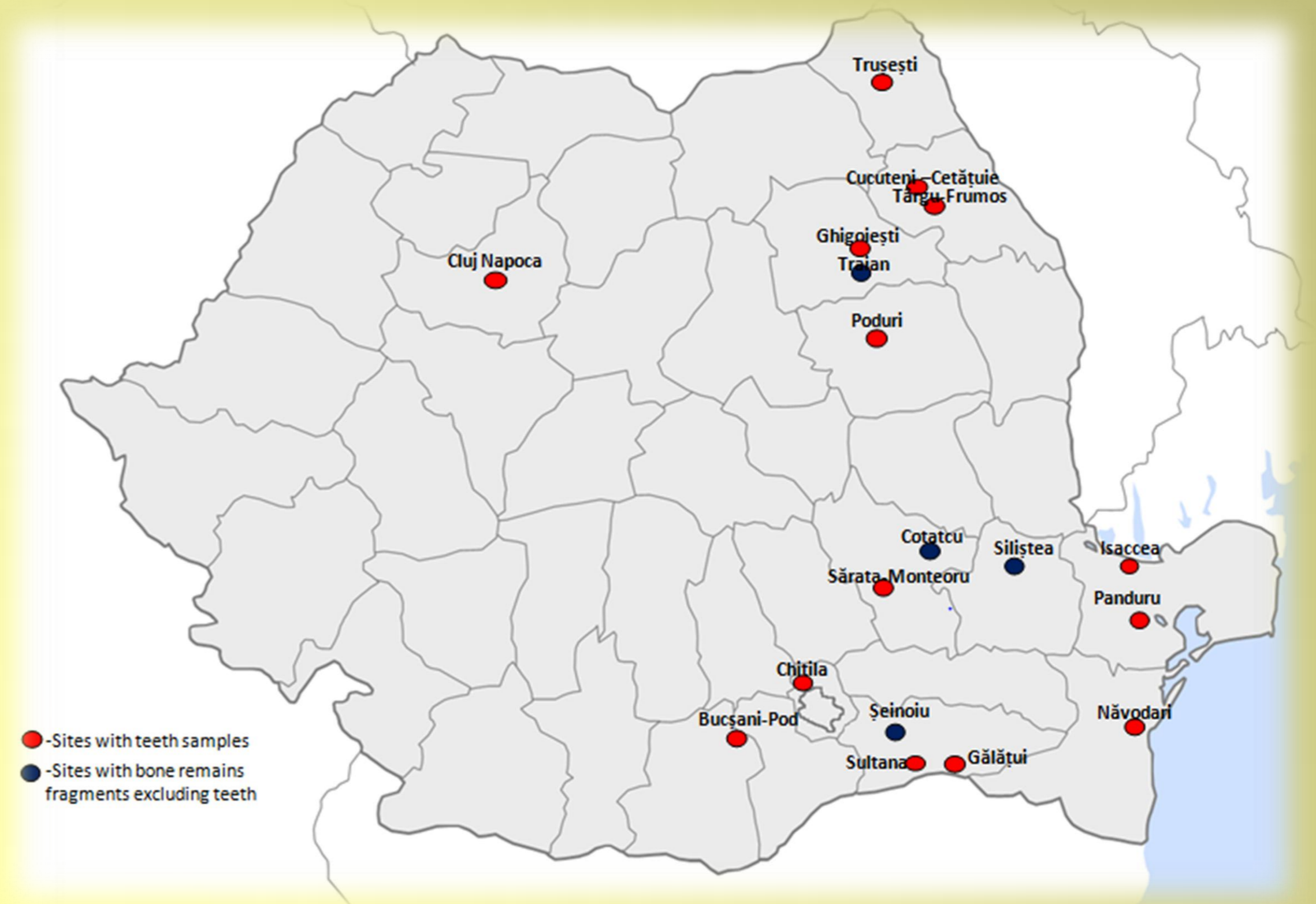
The process of pig domestication is a very complex one, and scientists are still trying to answer to questions like when, where and how did it happen. As far as Romanian territory is concerned, the archaeogenetical evidence so far showed that the first domestic pigs were imported here starting the 6th millenium BC and only later, towards the Chalcolithic, European domestic pigs start to appear.

Material

In this study were analyzed 105 samples from 18 different sites from the central and eastern parts of Romania, spanning a large period of time: 6000-3700 BC.



All samples were subjected to extraction protocols, PCR and sequencing reactions.



Results

For the periods of time and geographical area considered in this study, four haplotypes were identified, both in wild and domestic individuals. Apart from the previously mentioned ANC-Cside most in the wild individuals and ANC-Y1-6A in the domestics, towards the end of the Neolithic, the second European haplotype appears, the ANC-A-side, as well as another Near-Eastern one, the ANC-Y2-5A.

ANC-Aside	T C T T T A A A A C A A A A A A C C C A T A A A A A T T G C G C A C	[35]
ANC-Cside	.....	[ 35]
ANC-Y1-6A	.....	[ 35]
ANC-Y2-5A	.....	[ 35]
ANC-Aside	A A A C A T A C A A A T A T G T G A C C C C A A A A A T T T T A C C A	[70]
ANC-Cside	.....	[ 70]
ANC-Y1-6A	.....	[ 70]
ANC-Y2-5A	.....	[ 70]
ANC-Aside	T T G A A A A C C A A A A A A T C T A A T A T A C T A T A A C C C T A	[105]
ANC-Cside	.....	[105]
ANC-Y1-6A	.....	[105]
ANC-Y2-5A	.....	[105]
ANC-Aside	T G T A C G T C G T G C A T T A A A	[123]
ANC-Cside	.....	[123]
ANC-Y1-6A	.....	[123]
ANC-Y2-5A	.....	[123]

