The archaeogenetic analysis of Chalcolitic swine remains on Romanian territory

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The main domestication centers for Sus scrofa in the world

***D1-D6** – main domestication centers in the world;

*Each colour - a
different cluster;

*All braches represent Sus scrofa sp, except the ones already named: Sus celebensis, Sus barbatus, Sus verrucosus



Domestic pig on Romanian territory, archaeogenetic results obtained so far



Mesolithic: wild boars with european haplotype;

Neolithic : wild boars with european haplotype and domestic pigs with Near-Eastern haplotype;

*Actual locations: wild boars with european haplotype, identical with the Mesolithic one;

Porțile de Fier;	8.Hârșova;
Vitănești;	9.Luncavița;
Chitila;	10.Poduri;
Măriuța;	11.Dubova;
Căscioarele;	12.Vârteju;
Însurătei;	13.Topoloveni;

14.Frăsinet

. Bordusani;

(Bălășescu et al., 2006)

Goal: The modelling of the domestic pig spread on Romanian territory

♦To identify the genetic signature for the analysed samples;

♦To correlate the morphometric and genetic data;

To discuss the results and make the inferences taking into account the time and space.



















Conclusions

1. ANC-Cside haplotype : mainly identified in wild boars, dated from 4800 BC to 3500 BC;

2. ANC-Cside haplotype in domestics shows the first stages of introgression;

3.ANC-Y1-6A is generally spread in the Eastern part of Romanian territory during the Chalcolithic;

4. A new haplotype of Near-Eastern origin is identified, the ANC-Y2-5A, in both wild and domestic pigs;

5.The ANC-Aside haplotype appears in more Chalcolithic domestic pigs, and only one wild boar — must have been introduced from the West, possibly before 4800 BC.



Thank you for your attention!