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This volume is dedicated to the memory of Egon Dörner (1925–1993)

A handwritten signature in blue ink that reads "Egon Dörner".

Archaeozoological Data Regarding the Osteological Material from the Baden Settlement in Sântana “Cetatea Veche” (Arad County)¹

Xenia Pop

Abstract: The archaeofauna material discovered in the Baden settlement in Sântana “Cetatea Veche” has been uncovered during the archaeological excavation campaigns performed in 2009 and 2011. The 123 determined bone remains belong both to domestic and wild species. Traces of human processing have been identified on some of the fragments. The proportion between domestic and wild animals is of 60.9 to 39.8 %, according to the number of remains (NISP) and of 91 to 9 %, according to the minimum number of estimated individuals (MNI). The following species have been identified through the archaeozoological analysis: *Bos taurus L.*, *Ovis et Capra*, *Sus domesticus Erxl.*, *Equus caballus L.*, *Canis familiaris L.*, and *Cervus elaphus L.*

Keywords: archaeozoology, Baden Culture, bones, taphonomy, the Copper Age.

Introduction, materials, and methods

The archaeological campaigns performed in 2009 and 2011 in the Baden-type settlement from Sântana “Cetatea Veche” dated to the end of the Copper Age has revealed remains from animals besides other artifacts. The material was found in sections S1 and S4.

The bones were separated from the other materials, labeled, packed, and sent to the Archaeozoology Laboratory of the Veterinary Medicine Faculty in Cluj-Napoca. The working methodology employed consisted of sorting out the bone remains by removing the fragments that could not be identified, grouping the rest of the bones according to anatomical segments, followed by the anatomical identification of the bones and typology according to species, quantifying the data (NISP, MNI), estimating the slaughtering ages when the animals were sacrificed, determining the gender, and identifying the taphonomy. With the aid of data provided by osteometry I was able to calculate the shoulder height of one of the individuals from the capriovids group.

Description of the osteological material

The archaeozoological analysis has indicated that the remains belong to the following groups of species: bovine, ovicaprid, swine, equine, canidae, and cervidae (Fig. 6).

The lot is fragmentary, with few bones preserved intact. Some of the items show traces of processing, cutmarks, or scratching on the surface, while others were burnt.

Out of a total of 270 bone fragments, just 123 have been determined, representing 45.6 % of the total identified (Tab. 1). The majority of bones come from domestic mammals (60.9 %), as indicated in the table below:

Tab. 1. Proportion of bones in the sample.

Species	NISP	%	%	MNI	%
<i>Bos taurus L.</i> (Domestic cattle)	21	17		1	9
<i>Ovis aries L./Capra hircus L.</i> (Capriovids)	13	10.56		1	9
<i>Ovis aries L.</i> (Sheep)	3	2.4		1	9

¹ English translation: Ana M. Gruia.

Species	NISP	%	%	MNI	%
<i>Sus domesticus</i> Erxl. (Domestic swine)	36	29.3		5	45.45
<i>Equus caballus</i> L. (Equinae)	1	0.8		1	9
<i>Canis familiaris</i> L. (Canidae)	1	0.8		1	9
Total domestic animals	75	100	60.9	10	91
<i>Cervus elaphus</i> L. (Cervidae)	49	39,8		1	9
Total wild animals	49	100	39.8	1	9
Total identified remains	123	100	45.6	11	100
Unidentified large-size animal	femur 2 humerus 1 long bone 1 vertebra 2 radius 1 mandible 1 skull 2 rib 1				
Unidentified small/medium-size animal	mandible 1 rib 12 vertebra 8 long bone 5 skull 6 dentition 1				
Unidentified	102				
Total	270				

The most representative species among the domestic animals is domestic swine (*Sus domesticus* Erxl.). It includes 36 remains of an estimated a mni of five individuals (Tab. 1, Fig. 6). According to the stage of eruption and dental wear, three individuals had an estimated age of less than a year and another individual between 4 and 6 years². The majority of identified bone fragments were part of the axial skeleton (Tab. 3). Other identified fragments were part of the neurocranium and mandible, some were pieces of the splachnocranium, fragmentary vertebrae, and some isolated elements of dentition. The appendicular skull is represented by one calcaneum and two fragmentary scapulae (Fig. 1).

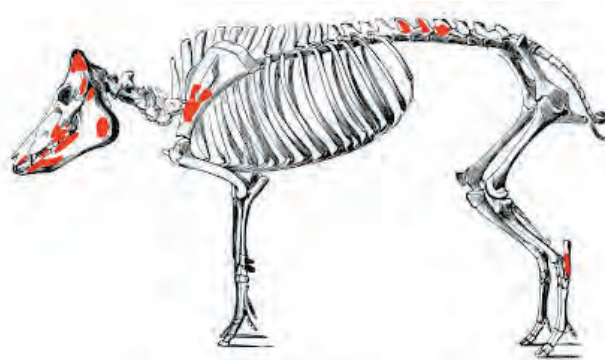


Fig. 1. Highlighted segments (in red) represent the identified fragments: *Sus domesticus* Erxl.

Bovine (*Bos taurus* L.) were second according to the number of fragments, with a lot consisting of 21 bone fragments, representing 17 % of all determined remains (Tab. 1, Fig. 6). The bones belonged to an individual estimated as mature³ (according to the ossification degree of the epiphyses). From this species I have determined remains both part of the cranial skeleton and of the postcranial skeleton (Fig. 2). The following anatomical segments have been identified: fragments of horncore, vertebrae (atlas, cervical, lumbar, and sacral vertebrae), scapula (glenoid angle), mandible fragment, isolated

² Schmid 1972, 77; Haimovici, Teodoerescu 1995, 200.

³ Schmid 1972, 75.

dentition, one distal humerus, one pelvis fragment (ilium), one distal metatarsus, tarsalia (astragal, calcaneus, the small cuneiform), and proximal and secondary phalanges.

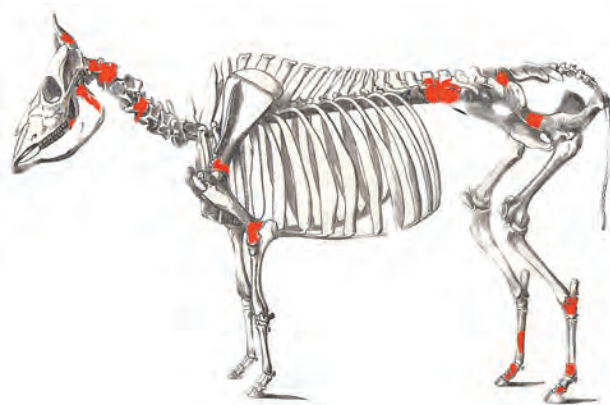


Fig. 2. Highlighted segments (in red) represent the identified fragments: *Bos taurus L.*

The group of capriovids includes 16 remains part of an estimated a mni number of two individuals. The morphological aspects of the studied bone fragments indicate that one of the individuals was a female of the *Ovis aries L.* genus. The differentiation of this individual was made on the basis of three fragments⁴: one mandible, one astragalus, and one primary phalanx. According to the osteometric measurements taken from the astragalus, the shoulder height of the sheep could be recalculated (Tab. 2). The obtained value was of 61 cm⁵. The slaughtering age when the animal was sacrificed could be determined with the aid of data provided by dental eruptions and the degrees of dental wear, and also by the fusion of long bone epiphyses⁶. I have thus estimated an age of between 4 and 5 years for the *Ovis aries L.* species (sheep) and of 3 years for the other individual generally attributed to the capriovids group. The attribution to certain genera of some remains could not be performed (mandible, scapula, femur, one diaphysis tibia, lumbar vertebra, isolated dentition, one diaphysis metatarsus, and one proximal metacarpus). They were included in the *ovis / capra* category (Tab. 3).

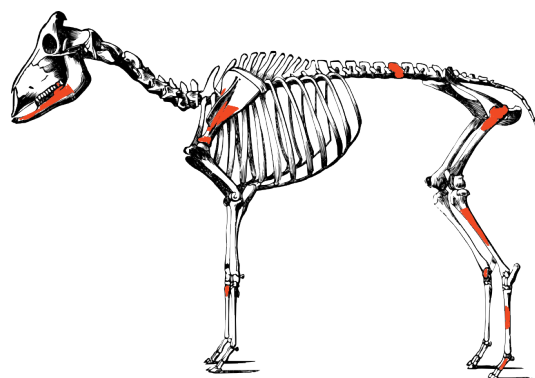


Fig. 3. Highlighted segments (in red) represent the identified fragments: *Ovis et Capra*

Tab. 2. Osteometric data for the astragalus⁷

Part	1	2	3	4	5	6
L	27	26	15	15	17	61

1 – maximal outer length
 2 – maximal inner length
 3 – maximal outer width

4 – maximal inner width
 5 – width of the distal trochlea
 6 – height according to Teichert

⁴ Boessneck 1969, 331–358; Halstead *et al.* 2002, 548.

⁵ Udrescu *et al.* 1999, 97.

⁶ Schmid 1972, 75, 77.

⁷ Desse *et al.* 1986, code 60.

Equine (*Equus caballus L.*) and canidae (*Canis familiaris L.*) include one bone each (Fig. 4, 5, 6). From *equus caballus L.* there is one lower premolar, while one secondary metatarsus was attributed to the *Canis familiaris L.* species. The small number of determined fragments does not allow for any strong conclusion on the age when the individuals of the two species have been sacrificed.

The only wild species identified in the studied sample is deer (*Cervus elaphus L.*). Fragments of horncore have been determined.



Fig. 4. Part of the identified head skeleton (in red): *Equus Caballus L*

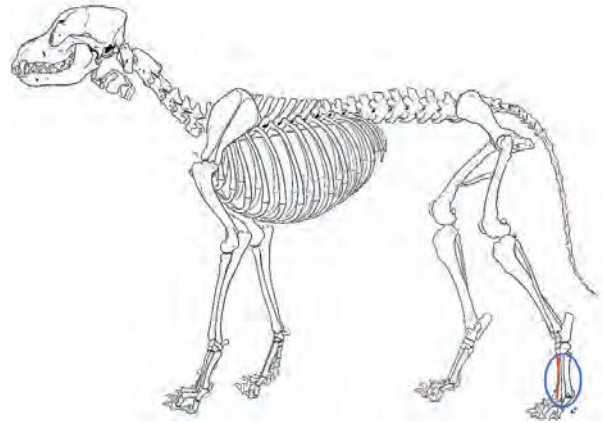


Fig. 5. Part of identified skeleton (in red): *Canis familiaris L.*

Tab. 3. Bone fragments identified in the sample

Bones		Species					
		<i>Bos taurus L.</i>	<i>Ovis et Capra</i>	<i>Sus scrofa doemstical Erxl.</i>	<i>Equus caballus L.</i>	<i>Canis familiaris L.</i>	<i>Cervus elaphus L.</i>
Axial skeleton	Cornua	2					49
	Cranium			3			
	Maxilla			4			
	Mandibula	1	2	13			
	Dentes	1	5	9	1		
	Atlas	1					
	Cervical v.	1					
	Lumbar v.	2	1	3			
Appendicular skeleton	Sacrum	1					
	Scapula	1	2	2			
	Humerus	1					
	Metacarpus		1				
	Pelvis	1					
	Femur		1				
	Tibia		1				
	Astragalus	1	1				
	Calcaneus	1		1			
	Tarsalia	1					
	Metatarsus	2	1			1	
	F1	2	1				
	F2	2					

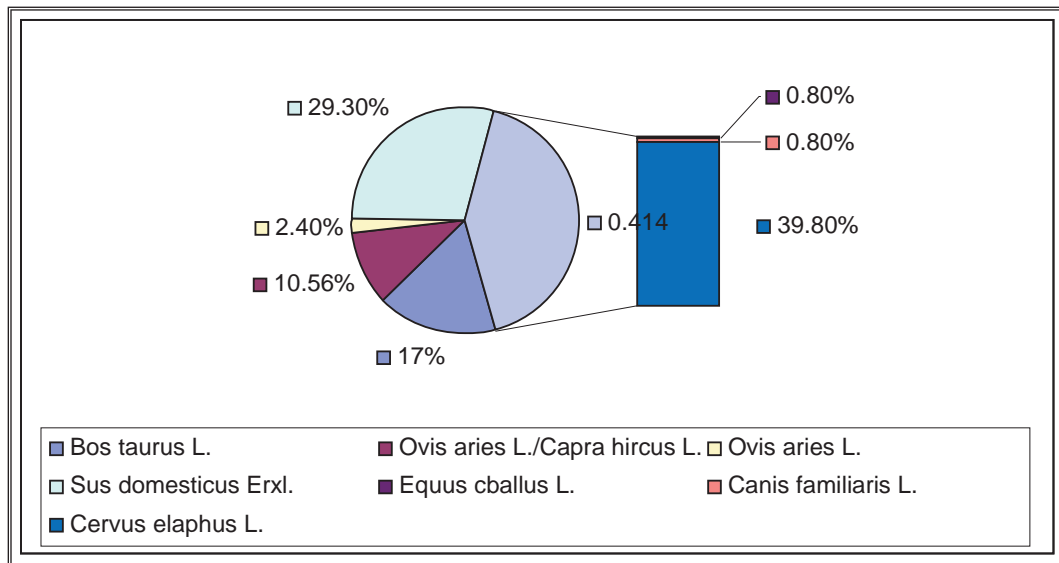


Fig. 6. Percentages of the species in the sample (according to NISP)

Taphonomic analysis

Traces on anthropic interventions could be noted on some of the bones in the sample under analysis. Due to the high degree of fragmentation, some bones could not be attributed to any species. Cut marks⁸ were identified on the ventral part of the ilium and on one fragment of the sacral vertebra of a bovine individual (Fig. 7a). Cuts marks were also noted on the level of the transversal processes in one of the lumbar vertebrae of a domestic pig (*Sus domesticus* Erxl.). One fragment of a tibia included in the *ovis* / *capra* category displayed cut marks on the lateral side of the diaphysis, in the middle of the dorsal part (Fig. 7b). Traces of scraping were located on the surface of an undetermined fragment. Such marks are usually formed while an animal's carcass is cut, i.e. when the meat is removed, the articulations broken, the carcass eviscerated etc.

Two other bone remains display traces of processing; the wall of one mandible fragment had been notched and one pointy fragment was created from the distal extremity of an capriovid metapod (Fig. 8a, b). The fragment resembles a polished arrowhead. Similar Aeneolithic tools were discovered in the south-western part of Hungary in Kaposújlak – Várdomb (the Pécel – Baden Culture) and on sites in southern Moldavia belonging to the Cucuteni – Ariuşd and Stoicani – Aldeni cultures⁹.

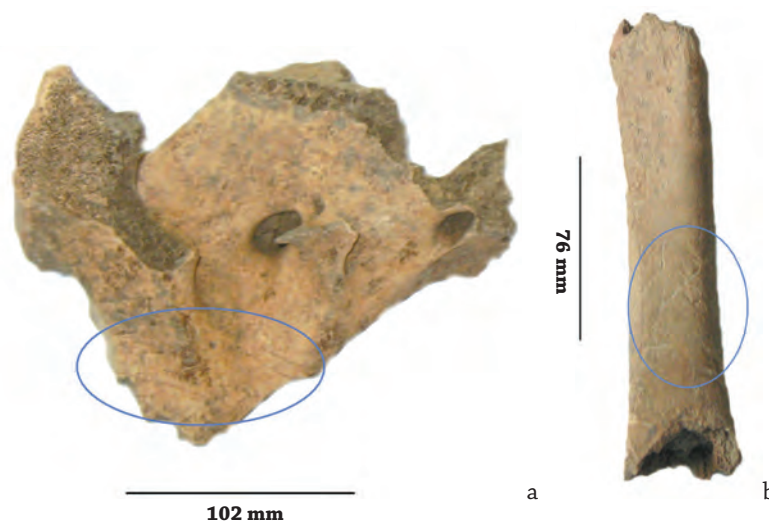


Fig. 7. Cut marks: a) fragment of sacral vertebra – *Bos taurus* L.; b) diaphysis tibia – *Ovis* & *Capra*

⁸ For the terminology see Lauwerier 1988, 182–212.

⁹ Gál 2011, 139–140; Beldiman *et al.* 2014, 115–147.



Fig. 8. Bones with traces of processing: a) tip made on an caprioid metapod; b) fragment of notched mandible from an unidentified animal.

Conclusions

Due to the material's state of preservation and to the nature of the determined remains, little data can be extracted regarding the animal populations in the Baden settlement from Sântana. The majority of identified fragments belong to the thoracic and pelvic member respectively; domestic swine are an exception, as their determined remains belong to the cranial skeleton (Tab. 3).

Few data can only be extracted on the morphological characteristics and the height of the animals as well; the size of a single individual could be recalculated, on the basis of metric data taken from an entirely preserved sheep astragalus. The calculated value was of 61 cm.

With the aid of data provided by dental eruption and wear degree, and of those provided by the fusion of the long bone epiphyses, I was able to distinguish between two age groups: young and mature. Bovine and caprioid individuals were slaughtered sometime at maturity. In the case of swine, three individuals were younger than 1 year and another was between 4 and 6 years.

For the other groups of species (equidae, canidae, and cervidae) the conclusions are irrelevant and one can only state their presence in the sample.

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Abbreviations

Acta Ant et Arch Suppl	Acta Antiqua et Archaeologica Supplementum. Szeged.
AAC	Acta Archaeologica Carpathica. Krakow.
ACMIT	Anuarul Comisiunii monumentelor istorice. Secția pentru Transilvania. Cluj.
ActaArchHung	ActaArchHung Acta Archaeologica Academiae Scientiarum Hungaricae. Budapest.
AEM	Archäologische Epigraphische Mitteilungen aus Österreich-Ungarn.
AIIA Cluj	Anuarul Institutului de Istorie și Arheologie. Cluj.
AMP	Acta Musei Porolissensis. Zalău.
ATF	Acta Terrae Fogarasiensis. Făgăraș.
ATS	Acta Terrae Septemcastrensens. Sibiu.
Agria	<i>Agria. Annales Musei Agriensis</i> . Az egri Dobó István Vármúzeum évkönyve. Eger.
AnB S.N.	Analele Banatului. Timișoara.
ArchÉrt	Archaeologiai Értesítő. A Magyar Régészeti és Művészettörténeti Társulat tudományos folyóirata. Budapest.
Arh. Pregled	Arheološki Pregled. Arheološko Društvo Jugoslavije. Beograd.
AM	Arheologia Moldovei. Iași.
AMN	Acta Musei Napocensis. Cluj-Napoca.
ArchRozhl	Archeologické Rozhledy. Praga.
ASMB	Arheologia Satului Medieval din Banat. Reșița 1996.
BAM	Brvkenthal Acta Mvsei. Sibiu.
BAR Int. Ser.	British Archaeological Reports. International Series. Oxford.
BCMI	Buletinul Comisiunii Monumentelor Istorice.
BerRGK	Bericht der RömischGermanischen Kommission, Frankfurt a. Main.
BHAB	Bibliotheca Historica et Archaeologica Banatica. Timișoara.
BMB. SH	Biblioteca Muzeului Bistrița. Seria Historica. Bistrița Năsăud.
BMI	Buletinul Monumentelor Istorice, București.
BMN	Bibliotheca Musei Napocensis. Cluj-Napoca.
BMMK	A Békés Megyei Múzeumok Közleményei. Békéscsaba.
BMMN	Buletinul Muzeului Militar Național, București.
BThr	Bibliotheca Thracologica. Institutul Român de Tracologie, București.
CAB	
CAH	Communicationes Archaeologicae Hungariae. Budapest.
Carpica	Carpica. Muzeul Județean de Istorie și Arheologie Bacău. Bacău.
CAMNI	Cercetări Arheologice. Muzeul de Istorie al R. S. România/Muzeul Național de Istorie. București.
CCA	<i>Cronica cercetărilor arheologice (din România)</i> , 1983–1992 <i>sqq.</i> (și în variantă electronică pe http://www.cimec.ro/scripts/arh/cronica/cercetariarh.asp).
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DolgCluj	Dolgozatok az Erdélyi Nemzeti Érem- és Régiségtárából, Klozsvár (Cluj).
DolgSzeg	Dolgozatok. Arbeiten des Archäologischen Instituts der Universität. Szeged.
EphNap	Ephemeris Napocensis. Cluj-Napoca.
FADDP/GMADP	Führer zu archäologischen Denkmälern in Dacia Porolissensis/Ghid al monumentelor arheologice din Dacia Porolissensis.
FolArch	Folia Archaeologica. Budapest.
Forsch. u. Ber. z. Vor- u. Frühgesch. BW	Forschungen und Berichte zur Vor- und Frühgeschichte in Baden-Württemberg.
GPSKV	Gradja za proučavanje spomenika kulture Vojvodine. Novi Sad.
GSAD	Glasnik Srpskog Arheološkog Društva. Beograd.
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MCA	Materiale și Cercetări Arheologice. București.
MCA-S.N.	Materiale și Cercetări Arheologice-Serie Nouă. București.
MA	Memoria Antiquitatis. Complexul Muzeal Județean Neamț. Piatra Neamț.
MFMÉ	A Móra Ferenc Múz. Évkönyve. Szeged.
MFMÉ StudArch	A Móra Ferenc Múzeum Évkönyve, Studia Archaeologica. Szeged.
MN	Muzeul Național. București.
Opuscula Hungarica	Opuscula Hungarica. Budapest.
PamArch	<i>Památky Archeologické. Praha.</i>
<i>Past and Present</i>	<i>Past and Present. Oxford.</i>
PIKS/PISC	Die Publikationen des Institutes für klassische Studien/ Publicațiile Institutului de studii clasice. Cluj-Napoca.
PBF	Praehistorische Bronzefunde. Berlin.
PZ	Prähistorische Zeitschrift. Berlin.
Rev. Muz.	Revista Muzeelor, București.
RIR	Revista Istorică Română.
RMM-MIA	Revista Muzeelor și Monumentelor. seria Monumente istorice și de artă. București.
RMMN	Revista Muzeului Militar Național. București.
Ruralia	Ruralia. Památky Archeologické – Supplementum. Praha.
RVM	Rad Vojvodjanskih Muzeja, Novi Sad.
SCIV(A)	Studii și Cercetări de Istorie Veche. București.

SCN	Studii și Cercetări Numismatice. București.
SlovArch	Slovenská Archeológia. Nitra.
SIA	Studii de Istoria Artei. Cluj Napoca.
SIB	Studii de istorie a Banatului. Timișoara.
SKMÉ	A Szántó Kovács János Múzeum Évkönyve, Orosháza.
SMIM	Studii și Materiale de Istorie Medie. București.
SMMA	Szolnok Megyei Múzeumi Adattár. Szolnok.
SMMIM	Studii și Materiale de Muzeografie și Istorie Militară. București.
Starinar	Starinar. Arheološki Institut. Beograd.
StCl	Studii Clasice, București.
StComBrukenthal	<i>Studii și comunicări</i> . Sibiu.
StudArch	Studia Archaeologica. <i>Budapest</i> .
StudCom	Studia Comitatus. <i>Szentendre</i> .
StudUnivCib	Studia Universitatis Cibiniensis. Sibiu.
StudCom – Vrancea	Studii și Comunicări. Muzeul Județean de Istorie și Etnografie Vrancea. Focșani.
StudŽvest	Študijne Zvesti Arheologického Ústavu Slovenskej Akadémie Vied. Nitra.
Symp. Thrac.	Symposia Thracologica. București.
Tempora Obscura	Tempora Obscura. Békéscsaba 2012.
Tibiscus	Tibiscus. Timișoara.
VAH	Varia Archaeologica Hungarica. <i>Budapest</i> .
Ziridava	Ziridava. Arad.
ZSA	Ziridava Studia Archaeologica. Arad.