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## ROMAN COOKING WARES DISCOVERED AT SARMIZEGETUSA REGIA

The ceramic evidence from Sarmizegetusa Regia comprises a relatively important number of Roman kitchen wares, discovered especially in the area of the stone fortress. They seem to belong to the so-called 'legionary pottery' and are represented by wheel-thrown cooking pots, lids and pans. Other recipients may be also ascertained to the Imperial ceramic production, as tableware, amphorae, turibula, mortaria, and even construction materials were unearthed during the excavations at Grădiștea de Munte. The cooking pots belong to archaeological contexts dated after the conquest of Sarmizegetusa Regia, at the beginning of the 2nd century. The vessel distribution reveals a concentration in the area of the fortification. Analogies are found in the province of Dacia and in the forts spreading on the Danube limes. We may presume that these cooking pots are linked to the presence of Roman legionary troops in the former capital of the Dacian Kingdom (epigraphic sources indicate the presence of soldiers from Legio IV Flavia Felix, Legio VI Ferrata and Legio II Adiutrix Pia Fidelis). The analysis of their fabric points to a local production for a part of the cooking pots and lids.

Sarmizegetusa Regia - Roman Dacia - Cooking wares - Roman legionnaires - Pottery production

#### 1. Introduction

We focus in this article on the topic of the Roman wheel-thrown cooking wares discovered at *Sarmizegetusa Regia*, the capital of the Dacian Kingdom. In our opinion, the current evidence points to the appearance of these ceramic vessels along with the Roman soldiers that have temporarily occupied the area of the ancient city. Moreover, there are several arguments to sustain the hypothesis of a local production for the respective Roman cooking pots.

## 1.2. A unique site

Sarmizegetusa Regia lies in South-western Transylvania, a mountainous region carefully chosen by the Dacians to build their fortresses, temples, towers, dwellings, and several other structures, linked by a network of roads and often supplied with water through a well thought system of water tanks, filters and distribution pipes (Daicoviciu and Ferenczi 1951; Daicoviciu 1972; Glodariu, Iaroslavschi and Rusu 1988; Daicoviciu, Glodariu and Ferenczi 1989; Glodariu et al. 1996; Gheorghiu 2005; Florea 2011).

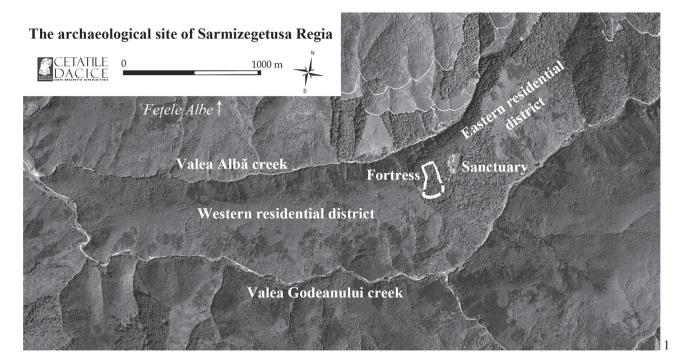
The capital of Decebalus stretched on 4,5 km (**fig. 1, 1**) and more than 260 anthropogenic terraces, an impressive amount of work that speaks of the power and prestige of the Dacian kings. From the data collected so far, the beginning of the settlement could be placed at the middle of the 1<sup>st</sup> century BC, when a major building project began in the so-called sacred area. In time, at least three large terraces supported by stone walls were prepared to house the monumental limestone and andesite temples, the andesite altar and additional structures. In the vicinity of the sanctuary, other stone and timber edifices complete the picture of a vivid religious landscape, connected to the stone fortress by a paved ceremonial alley.

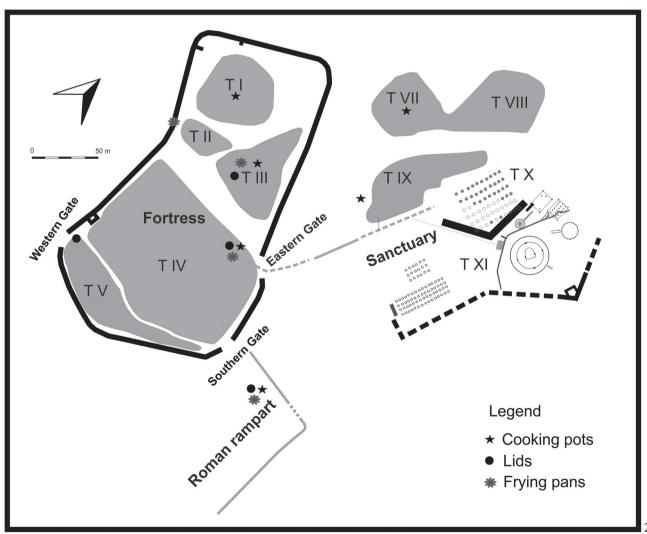
The western and eastern quarters of the site comprised mainly private and public structures, rich in archaeological material. Local or imported pottery, glass, bronze, iron, stone, lead, and even gold objects have been unearthed by archaeologists, nature or illegal activities. Most of the features and items can be dated in the second half of the 1st century AD. If we were to choose some trademarks for this site, then painted pottery and the large amounts of gold artefacts are to be listed first (Florea 2017).

This complex and cosmopolite city would meet its end at the beginning of the 2<sup>nd</sup> century, as the Roman troops lead by Emperor Trajan conquered the Dacian Kingdom and formed the province of Dacia. The military efforts required two campaigns and their archaeological traces are starting to complete the puzzle of the Dacian Wars (Glodariu 1989-1993; Glodariu 2006; Florea et al. 2015: 26; for a critique of this view, see Protase 1997; Opreanu 1999-2000, 2017).

## 2.2. The conquerors

The Roman finds at *Sarmizegetusa Regia* are concentrated mainly in the area of the fortress and of the temples. Several stone buildings have been excavated, some documenting the use of mortar, such as the so-called 'Roman baths' (Daicoviciu et al. 1951: 106; Glodariu 1965: 127, Fig. 5) and a two room edifice inside the fortification (Daicoviciu et al. 1954: 150-151, Fig. 22; Glodariu 1965: 123). Another timber and earth construction was identified inside the fortress and it could be interpreted as Roman barracks (Florea et al. 2013: 64, Pl. 25; Florea et al. 2014: 112, Pl. 77, 1d). Some of the ceramic material presented below is coming out of this feature. Remains of such timber and earth military buildings have been constantly observed during the excavations, especially on the





**Fig. 1.** 1. Satellite view of the site Grădiștea de Munte – *Sarmizegetusa Regia* (processed after Florea 2017); 2. Plan of the fortress and of the sanctuary; T = Terrace (processed after Florea et al. 2015 and R. Mateescu).

3<sup>rd</sup> and 4<sup>th</sup> terraces (**fig. 1, 2**, T III and T IV) (Daicoviciu et al. 1951: 106, Fig. 8-9; Glodariu 1965: 124).

Defensive structures that may be linked with the Roman legionnaires are the fortress and the massive rampart (Glodariu 1989-1993: 23), yet additional investigations are needed in this respect. It must be mentioned that the stone wall seems to have been build in haste, using limestone blocks, channel elements or andesite column drums, but also Roman reliefs and inscriptions (Glodariu 1989-1993: 21-23). The embankment was known since the 1950s, but its entire plan was revealed by the LiDAR scan in 2012, resembling a fort (Oltean and Hanson 2017: 439-442, Fig. 7). It is important to mention that several Roman marching camps have been discovered in the area of the Dacian capital (Iaroslavschi 1989-1993; Popa 2011: 345-351; Oltean and Hanson 2017).

Archaeologists noticed the efforts of the Romans to modify the terrain in order to meet their needs as occupying force. Large amounts of soil have been moved, together with objects, probably from the places in which Dacian structures had functioned. The entire setting was changed: terraces, ramps, slopes, ditches, pavements, perhaps even roads appeared or were partially or entirely removed (Glodariu 1989-1993: 22-23; Florea and Suciu 2004: 66-67; Florea et al. 2015: 23-26).

The archaeological material indicates that the Roman occupation of the site should be placed only during the reign of Trajan (Glodariu 1989-1993). The epigraphic and sculptural evidence (reused limestone blocks and slabs) reveals the presence of soldiers from three legions at Sarmizegetusa Regia: *Legio IV Flavia Felix, Legio VI Ferrata* and *Legio II Adiutrix Pia Fidelis* (Glodariu 1965: 128-130; Daicoviciu, Ferenczi and Rusu 1988-1991; Glodariu 1989-1993: 21; Opreanu 1999-2000: 154-159).

After the defeat of the Dacians, Legio II Adiutrix returned to Aquincum in 106 (Maróti and Kalmár 2006: 27; Maróti and Kalmár 2007: 30), where it garrisoned after its periplus from Batavodurum (Nijmegen), in Germania Inferior, to Deva (Chester), in Britannia (Von Bogaers 1967: 54, 56, 60). Legio IIII Flavia Felix was present at Ulpia Traiana Sarmizegetusa and Berzovia (Étienne, Piso and Diaconescu 2002-2003: 59, 66, Pl. XIX, Tg. 1, 5; Matei-Popescu and Tentea 2017: 164), before returning to its headquarters at Singidunum (Whatley 2016: 64-65). The destination of the vexillatio from Legio VI Ferrata is still unknown. It is believed that it must have returned in Syria to join Trajan's campaigns against the Parthians (Urloiu 2011: 225). Based on the available data, it is difficult to ascertain the exact composition of the troops that garrisoned at Sarmizegetusa Regia in the first years of the new province of Dacia.

## 2. Ceramic evidence: literature review

The study of the ceramics discovered at *Sarmizegetusa Regia* has focused mainly on the Dacian material (Cristescu 2011; Cristescu 2018). Hence, there is no dedicated study for the Roman cooking wares found on the site, with only a few general observations made in the literature.

We should first mention the work of I. Glodariu, yet he focused on the imports during the pre-Roman period (Glodariu 1976). Recent studies have approached the same topic, emphasizing the imports, their imitations and influence (Cristescu 2014a; Cristescu 2014b). G. Florea and L. Suciu published for the first time a small number of Roman potsherds, including cooking pots, discovered on the upper plateau of the fortress, supporting their efforts in establishing the relative chronology of this area (Florea and Suciu 2004). The PhD thesis defended in 2012 by C. Cristescu comprised a few fragments of Roman cooking pots found on the 7<sup>th</sup> terrace (fig. 1, 2, T VII) (Cristescu 2011).

Still, the recent discovery of the bronze matrix from *Sarmizegetusa Regia* offered the possibility of an archaeological excavation in which large amounts of Roman artefacts have been discovered, among which several vessels have been published. The authors concluded that some Roman cooking pots were probably produced on site and that the function of these containers should be interpreted in connection to the Roman soldiers (Florea et al. 2015).

G. Andreica has recently defended his PhD thesis on the Roman presence at *Sarmizegetusa Regia* (Andreica 2019), thus a detailed overview on the Roman ceramic repertoire will be presented in the near future. Until then, here are the main categories which can be related to the occupying troops: amphorae, *dolia*, tableware (thin walled pottery, plates, bowls, cups, beakers), pitchers, jugs, *turibula*, cooking pots, deep bowls, *mortaria*, lids, baking trays. It must be noted that kitchen pottery represents more than a half of the Roman ceramic finds that were documented until now.

## 2.1. Vessels and analogies

We will present the cooking pots, lids, and frying pans. It should be noted that the material studied so far is mainly fragmentary and in secondary position. These wheel-thrown recipients could have been produced by and for the Roman soldiers that garrisoned at Sarmizegetusa Regia, thus a discussion concerning them and their analogies might prove of great importance, as it could provide new data on the Roman occupation of the site.

Several types of wheel-thrown Roman cooking pots were discovered at *Sarmizegetusa Regia*. Their flaring rim is flat, rounded, bevelled or rolled; the shoulder is well marked and the bottom is flat. Decoration consists in horizontal incisions, grooves and mouldings, performed on the rim, neck and upper part. The fabric is usually hard, coarse or semi-coarse, fired in a reducing or oxidizing atmosphere; temper includes grog, pebbles and sand. Traces of smoke and soot may be found on both sides of the walls, still there are no residual analyses to determine the substances that were cooked inside these containers.

The predominant pot type is the one with a flaring rim, wide mouth and well-marked shoulder (**fig. 2, 8** and **10**). At Carnuntum, these vessels have a narrow chronology, between 70-120 (Gugl, Radbauer and Kronberger 2015: 262, Pl. 25, M-568, 4). In Dacia, they are common in the archaeological discoveries from Tibiscum (Benea 1995: 153, Pl. X, 2) and Cristeşti (Popescu 1956: 175, Fig. 112, 6).

Pots with bevelled rim (**fig. 2, 11, 14**) have good analogies in the *vicus* of Napoca, dated in the first decade of the 2<sup>nd</sup>

century (Rusu-Bolindeţ and Cociş 2005: 149, 152, Fig. 12, 58; Rusu-Bolindeţ 2007: 412-413, Pl. XCVII, 581-584). Pots with bevelled flaring rim, almost angular (**fig. 2, 16**) or a bit rounded (**fig. 2, 12**), find similarities to some pots from Carnuntum, with the same chronological framing as the previous examples (Gugl, Radbauer and Kronberger 2015: 236, Pl. 12, L2-1620, 4). In Dacia there is a good analogy at Romula (Popilian 1976: 87, 179, Fig. XXXIV, 330-331). We should mention a variant with an almost rolled rim (**fig. 2, 5**), dated at Histria in the first two centuries AD (Suceveanu 2000: 124, 128, Pl. 48, 10) and at Napoca in the second half of the 2<sup>nd</sup> century (Rusu-Bolindet 2007: 414, 422, Pl. XCVIII, 592).

Somehow similar, the variant with an almost straight and slightly flaring rim (fig. 2, 6 and 9), sometimes with a more pronounced neck (fig. 2, 3 and 15), finds analogies in Dacia at Cristești (Popescu 1956: 175, Fig. 112, 6), in Pannonia at Carnuntum, dated 70-150 (Gugl, Radbauer and Kronberger 2015: 262, 267, Pl. 25, M-568, 4, 26, R1-259-4), and Aquincum, with a large framing in the 1st-2nd centuries (Vámos 2002: 17-18, 29, Fig. 13, 2). The Italic samples were dated throughout the 1st and at the beginning of the 2nd century (Quercia 2008: 200, Type 8, Fig. 2, 8). In Britannia, those vessels are dated at Caerleon in the Flavian period (Zienkiewicz 1992: 97-98, 102, Fig. 5, 26, 7, 61) and at Northumberland Wharf (Brentford) at the middle of the 1st century (Laws 1976: 197, Fig. 10, 103). It must be noted that one fragment (fig. 2, 4) seems to belong to a category of pots from London, considered local products from the middle of the 1st century (Marsh and Tyers 1976: 228, Fig. 2, 19).

The type with a flat and slightly flaring rim (**fig. 2, 13**) is well documented in Roman Dacia. It is attested in the Romita camp (Matei and Bajusz 1997: 122-123, Pl. XL, 6), at Cristești (Popescu 1956: 175, Fig. 112, 25, 113, 18) and in the fort of Răcari (Bondoc and Gudea 2009: 163, Pl. XXXVI, 161), largely dated in the 2<sup>nd</sup> century. There is a variant of this type, decorated with grooves and mouldings in the upper part (**fig. 2, 2**), which has analogies in the legionary *canabae* from Colonia Ulpia *Traiana* (Xanten), dated at the end of the 1<sup>st</sup> and throughout the next century (Liesen 2003: 120, Fig. 3, 20), while in Dacia we find it at Tibiscum (Benea 1995: 153, Pl. X, 3).

Cooking recipients with rounded and slightly flaring rim (**fig. 2, 1**) have been discovered at *Singidunum* (Nicolić-Đordević 2000: 77, Type II, 26) and Napoca (Rusu-Bolindet 2007: 413, Pl. XCVII, 586), dated at the beginning of the 2<sup>nd</sup> century until the reign of Hadrian.

Pots with large flaring rims (**fig. 2**, **17**) have a wider dating. Such vessels were discovered in the Roman camp of Nijmegen (Haalebos 1995: 64, Fig. 40, 1) or at Halbturn (Doneus 2014: 93, Pl. 84, 20). A similar variant, but with a rounded rim and groove decoration in the upper part (**fig. 2**, **7**) can be found at Cristeşti (Popescu 1956: 157, 175, Fig. 112, 26) and Porolissum (Gudea 1996: 52, Pl. XII, 5).

Lids share the same fabrics with the cooking pots. Usually they do not bear any decoration, rarely horizontal incisions; their grabbing knob is flat or convex; the walls are straight or slightly arched, while the rounded rim is either straight or flaring.

Lids with straight walls (fig. 3, 8) were discovered in the first earth-and-timber phase of Napoca, from the period of

Trajan (Rusu-Bolindeţ 2007: 415, Pl. XCVIII, 594), but also in the nearby settlement from Floreşti – *Polus Center*, dated during the reign of Hadrian (Ciauşescu and Mustaţă 2009, Pl. VII, 2), and encountered among the common wares of Carnuntum (Grünewald 1979: 47-48, Pl. 33, 11).

Lids with arched walls and flaring rim (**fig. 3, 6**) are wide spread in Roman Dacia (Popilian 1976: 128, Pl. LXXII, 910, type 3), with analogies in the 1<sup>st</sup>-2<sup>nd</sup> centuries at Carnuntum (Grünewald 1979: 47, Pl. 33, 1). From the same site (Gugl 2007: 189, Pl. 27, 312-56) are the finds similar to the lids with arched walls and straight rim from *Sarmizegetusa Regia* (**fig. 3, 10**).

The grabbing knobs (**fig. 3, 7, 9** and **11**) are typical finds in Dacia (for example Popilian 1976: 127-128, Pl. LXXII, 900, Type 1, for the variant with flat knob with straight edge), but it is interesting to see the good analogies, for each of the three variants, from Mehadia (Macrea, Gudea and Moţu 1993: 125, Pl. LIV, 2, 4, 6).

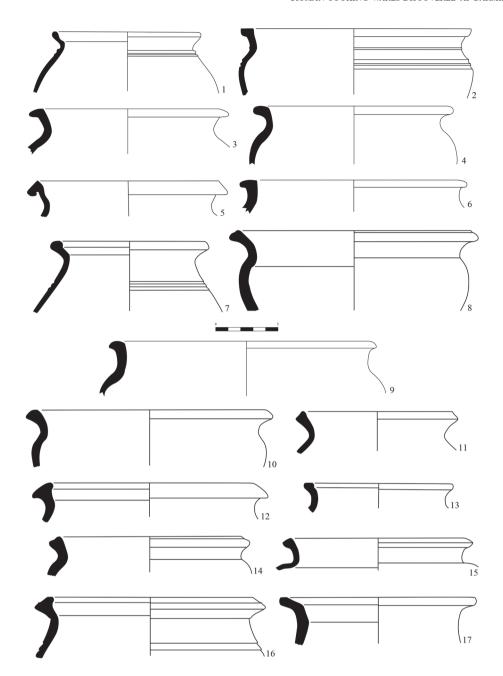
Frying pans are less numerous, with two types identified so far, with bevelled flaring rim and rounded inverted rim. The former are decorated with grooves on the exterior, while the latter with an incision on the interior, close to the base; in both cases, the bottom is flat. Their hard fabric is semi-fine, fired in a reducing or oxidizing atmosphere, tempered with sand. Secondary firing traces are highly visible on the entire surface of these recipients.

The type with inverted rim (**fig. 3, 1-4**) usually has a large dating in the 2<sup>nd</sup> century until the first half of the 3<sup>rd</sup> century, at Napoca (Rusu-Bolindet 2007: 403-404, Pl. XCI, 542, 546-547), Porolissum (Lăzărescu, Sidó 2018: 44, Fig. 12, 8) or Şibot (Bâltâc 2018: 138, Fig. 9, 5-6). Analogies are also found in the camps of Berzovia (Protase 2010: 40-41, Pl. 22) and Feldioara (Gudea 2008, 169, Pl. XVIII, 13-14) or in the Roman necropolis of Ruda-Brad – *La Petronești* (Rusu 1979: 219-223, Fig. III, 4). Earlier similar pans were also reported at *Verulamium* (Frere 1972: 352, Fig. 135, 1181), while the Italic examples are numerous in the 1<sup>st</sup> century (Bats 1988: 159-160, Pl. 38, 1088-1089; Olcese 2003: 27, 29, 86, Fig. 22, Tav. XV, 1-2; Leitch 2010: 14, Fig. 5a). We should also mention the local products from Emona (Istenič, Daszkiewicz and Schneider 2003: Fig. 3, 12, Tab. 1).

The second variant, with a flaring rim (**fig. 3, 5**), was considered a type of plate among the discoveries from Slăveni and Drobeta (Popilian 1976: 213, Pl. LXVIII, 830-831).

#### 2.2. Find spots

Concerning the distribution map, Roman cooking pots have been discovered at *Sarmizegetusa Regia* predominantly within the fortress. Many of them were found on the upper plateau, on the 3<sup>rd</sup> and 4<sup>th</sup> terraces (**fig. 1, 2**, T III and T IV), following the line of the walls, and below the Southern Gate, but some samples were also discovered on the 7<sup>th</sup> terrace and above the 9<sup>th</sup> terrace (**fig. 1, 2**, T VII and T IX). Lids almost follow the same distribution pattern, being present on the 3<sup>rd</sup> and 4<sup>th</sup> terraces (**fig. 1, 2**, T III and T IV), at the Western Gate, and below the Southern Gate. Frying pans were found inside the fortress, on the 3<sup>rd</sup> and 4<sup>th</sup> terraces, in the emplecton of the western wall, and below the Southern Gate (**fig. 1, 2**).



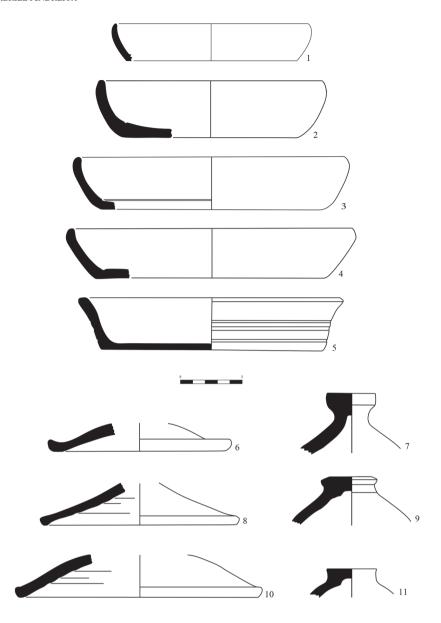
**Fig. 2.** Wheel-thrown cooking pots: 1<sup>st</sup> terrace (8, 11, 14), 3<sup>rd</sup> terrace (7, 13, 17), 7<sup>th</sup> terrace (1-2, 5), below the Southern Gate (3-4, 6, 9), Western Gate (10), without clear context (12, 15-16) (1-2, 5 after Cristescu 2011; 3-4, 6, 9 after Florea et al. 2015, Fig. 17, 7-10; 7-8, 10-17 drawn by G. Andreica).

# 2.3. Fabrics and local production

Macro- and microscopic observations have been made, backed up by laboratory analyses performed by a team lead by C. Ionescu. The study of the samples is still in progress, thus we will present only some preliminary observations. The samples have been fired at a temperature around 900° C. Their matrix has an oriented texture, with quartz and feldspar being the predominant clay minerals. Quartzite, mica schist and gneiss are some of the identified lithoclasts. It seems for now that the mica particles, often present in the fabric of the Dacian vessels, are not frequent in the matrix of Roman recipients.

Nevertheless, few exceptions exist as the clay used to manufacture a part of the cooking pots and lids probably came from a source down the valley, perhaps the clay quarry from Bucium, which was most likely used by the Dacians (Cristescu forthcoming) and still being in use nowadays (**fig. 4**). The respective source belongs to Badenian age deposits, part of a region characterised by Neogene marls, silts and mudstones, in the southern part of the Transylvanian Depression. Most probably, the frying pans arrived at Sarmizegetusa Regia as part of the soldiers' kitchen service.

We have no information on the other production stages of the cooking wares. There is no pottery kiln found on site, neither



**Fig. 3.** Wheel-thrown frying pans (1-5) and lids (6-11): 3<sup>rd</sup> terrace (3, 6), 4<sup>th</sup> terrace (5, 7, 9, 11), inside the western wall (4), the north-western corner of the fortification (8), Western Gate (2, 10), below the Southern Gate (1) (1 after Florea et al. 2015, Fig. 17, 3; 2-4, 6, 8, 10 drawn by G. Andreica; 5, 7, 9, 11 drawn by A. Dima-Antal).

Dacian nor Roman (a pottery kiln was discovered nearby at Grădiștea de Munte – *Fețele Albe*, just across the Valea Albă creek, but it probably supplied only the respective Dacian settlement: Cristescu forthcoming). There is no evidence of wasters or waste pits or any manufacturing tools documented up to this moment. The situation might change during the processing of the unpublished materials, in connection to the progress of the excavations in the aforementioned areas.

The hypothesis of a local Roman ceramic production (without placing it exclusively in the post-war period) is enforced by the large number of Roman building materials discovered inside or near the stone fortress: *tegulae* and *imbrices*, bricks, pavement biscuits, ceramic tubes, even water pipe fragments, some sharing the same fabric features and firing conditions with a part of the cooking pots (Florea et al. 2015: 21).

## 2.4. The Dacian tradition

Judging by shape and fabric, the respective cooking recipients differ from the ones that were used before the conquest. Even the production technique is different, as the Dacian cooking jars were handmade only, just like a part of the local lids (Cristescu 2014b: 47). There are no frying pans that may be attributed to the Dacian layer, but we should always bear in mind the fact that the excavations inside and around the fortress revealed several stratigraphic layers containing both Roman and Dacian artefacts (Florea and Suciu 2004: 66), often deranged by modern interventions.

However, it must not be ascertained that handmade cooking wares were not used by the Romans soldiers at Sarmizegetusa Regia. There are a fair number of handmade jar fragments coming from the same areas like the Roman



Fig. 4. The clay quarry from Bucium (after Cristescu forthcoming).

kitchen containers. Recent studies have shown the presence and use of handmade jars of local tradition in the forts that were defending the province of Dacia (Pupeză, in this volume, with the bibliography). Notwithstanding, their characteristics are not the same in comparison to the traditional models, yet a final conclusion could be drawn only after the analysis of sufficiently clear ceramic assemblages at *Sarmizegetusa Regia*, found in well documented features or contexts.

## 3. Conclusions

Our efforts in finding analogies in the garrison forts of the Roman legions attested at Sarmizegetusa Regia proved to be, at least partially, fruitful. The finds mentioned at Mehadia, Tibiscum, Berzovia or Singidunum are showing that a part of these recipients were used by the soldiers of *Legio IIII Flavia Felix*. Those found in *Britannia* (Malone 2005: 18, 23, Tab. I.8) or at Nijmegen and Xanten might prove the usage of these vessels by the *Legio II Adiutrix*.

Even if the general chronology of the ceramic materials is the second half of the 1<sup>st</sup> century-2<sup>nd</sup> century, even the 3<sup>rd</sup> century, the discovery contexts at *Sarmizegetusa Regia* propose a narrower dating: the beginning of the 2<sup>nd</sup> century until the reign of Hadrian.

Whether or not the notion of 'legionary ware' is questionable (Petruţ 2016), there is no doubt that the forms associated with it are present at *Sarmizegetusa Regia*. Our impression, based on more than 300 samples, is that most of the vessels are not manufactured here but arrived with the troops. For the vessels produced in the area, a plausible clay source is the Bucium quarry. All the recipients that were manufactured on-site (or in the vicinity) were wheel-thrown, so there may

have existed a special building dedicated to this kind of labour, for instance a workshop.

We should not discuss only the pots themselves. In regards to material culture, a pot does not mean typology, but the process of cooking (Hodder 2005: 179). It would be interesting to see if indeed the Roman culinary practices were so different in comparison with the ones from the royal court of Decebalus, where Roman soldiers and artisans had been active for quite a while (Rustoiu 2005: 82-83; Egri 2014).

We believe that the wheel-thrown cooking recipients from Grădiștea de Munte were produced by/for the Roman soldiers that garrisoned there. And there were the legionnaires as well who used them in the ruins of the former Dacian capital. Yet this archaeological chapter of *Sarmizegetusa Regia* is still rolling on...

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To put it in Ian Hodder's words, '...material culture, in its pragmatic innocence, should play a powerful ideological role. Our difficulty in recognizing this role is the basis of its success'.

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