

Archaeobotanical analysis in Cittanova necropolis (Modena)

Federica Riso

Institut Català d'Arqueologia Clàssica (ICAC), Tarragona, Spain

Abstract. The archaeological site of Cittanova had a key role during the romanization process of *Mutina* (now Modena, northern Italy). Preliminary archaeobotanical analysis (seeds/fruits) have been carried out on the necropolis dated from the II century BC to the II century AD, in order to find food remains involved in the ritual ceremonies. A total of 211 seeds/fruits and 5 taxa have been identified, among which Cereals, Legumes and wild species.

Key words: archaeobotany, roman, necropolis, Mutina, Sambucus ebulus

Introduction

Preliminary archaeobotanical analysis on the roman necropolis of Cittanova, in Modena (northern Italy), dating from the II century BC to the II century AD, have been carried out in order to detect foodstuffs offered during the funerary rituals.

Cittanova, located about 10 km west of Modena, in the direction of Reggio Emilia, was already known in the archaeological literature for several discoveries and, in particular, is cited by the sources as the episcopal seat of *Civitas Nova* or *Civitas Geminiana*. Cittanova site is sealed by alluvial deposits formed between the Middle Imperial Age and the Early Middle Ages. The traces of paleochannels surrounding the city of Modena indicate the existence of a hydrography significantly different from the current one. The main rivers of the area, Secchia and Panaro, which today converge north of the city, followed very distant paths from it in Roman and Medieval times. In particular, upstream from Rubiera a paleochannel runs further east than the previous ones and passes near Cittanova, downstream of which it develops along a northern route, coinciding with other paleochannels.

The deviation of the canal in the Cittanova area involved excavation works in 1993 (the excavation data

are still unpublished). The new path of the canal ran for a large stretch parallel to the Via Emilia, near the roman consular road. During archaeological excavations, deposits from the Republican period emerged, such as black-painted ceramics dating back to between the II- middle I century BC. The necropolis was parallel to the current Via Emilia which matched with the roman consular road, as attested by the discovery of a road pavement linked to the funerary context. The necropolis had been widely attended, as seen from the tombs arranged on overlapping levels. Overall, 144 tombs were excavated, 84 cremations and 60 inhumations, on an area of approximately 250 meters.

Material and methods

Soil samples taken from 18 tombs have been examined at the Laboratory of Palynology and Palaeobotany in Modena. Here the soil-sieving operation was carried out using piled sieves of differing mesh sizes (10 mm – 0.5 mm – 0.2 mm), as well as screening and microscopic identification of the surfaced materials by a stereomicroscope Leica Wild M10 at various magnifications (between 6 x and 80 x). Once the

The abundance of *Sambucus ebulus* seeds should not be considered a voluntary act but is due to the presence of uncultivated areas. In this context, it is better to consider it as a wild species, also because the seeds are all uncharred.

Conclusions

Cittanova necropolis produced evidence of ritual plant offerings, even if not several seeds have been found because of the sequence of floods in the area, which have compromised the conservation of the plant remains.

The presence of several uncharred seeds of *Sambucus ebulus* could indicate the settlement of uncultivated lands, perhaps due to the abandonment of the burials, which were no longer attended by relatives and therefore, were dominated by the surrounding vegetation.

References

- Anderberg, A. L. (1994). *Atlas of Seeds and Small Fruits of Northwest-European Plant Species (Sweden, Norway, Denmark, East Fennoscandia, and Iceland) with Morphological Descriptions: Resedaceae-Umbelliferae*. Swedish Museum of Natural History, Stockholm.
- Berggren, G. (1981) *Atlas of seeds and small fruits of Northwest-European plant species with morphological descriptions. Part 3, Salicaceae-Cruciferae*. Swedish Museum of Natural History, Stockholm.
- Cappers, R. T., Bekker, J., & Jans, R.M. (2006). *Digitale Zadenatlas van Nederland*. Barkhuis, Groningen.
- Neef, R., Cappers, R. T. J., & Bekker, R. M. (2012). *Digital Atlas of Economic Plants in Archaeology*. Barkhuis and Groningen University Library, Groningen.

Correspondence:

Federica Riso
Institut Català d'Arqueologia Clàssica (ICAC), Tarragona,
Spain
E-mail: friso@icac.cat