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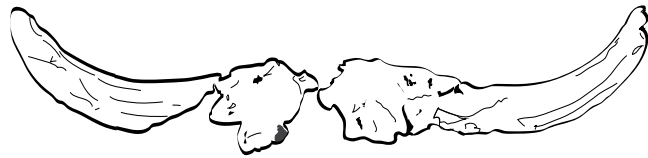
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Poster Presentation Number 121, Th (18:00-20:00)

Giant deers and large-sized bovids exploited by Quina Neanderthals in the North of Italy

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The variability of Neanderthal hunting behavior is a topic subject of research in the North-east of Italy, a well-known region where the reconstruction of the Late Middle Palaeolithic settlement system is largely supported by several palaeoenvironmental archives and archaeological deposits. During the Late Pleistocene, Neanderthals exploited different landscapes between the highlands (the Alpine fringe) and the lowlands (the border of the Plain and the subalpine area), supporting their subsistence by hunting a varied range of ungulates. A singular case is represented by the evidence produced from De Nadale Cave, which is a small cavity located at 80 m a.m.s.l., in the Southern slope of the Berici hills. Under a superficial and reworked layer (Unit 1Rim), only one layer (Unit 7) has been recognized as archaeological and contains dense osteological remains and lithic implements ascribed to the Quina method [1,2]. This anthropic layer dates back to 70.2 +1/-0.9 ky BP, on the base of the Uranium-series (U-Th). The faunal assemblage reveals that the most frequent species are the Giant Deer and the Red Deer, followed by large-sized bovids. The Chamois and the Roe Deer have also been identified, but in a lower quantities. Carnivores are scarcely present, while the presence of birds of different size is relevant; an epiphysis of tarsometatarsus has been recognized as belonging to the Black Vulture (*Aegypius cf. monachus*). Furthermore, also a deciduous tooth of *H. neanderthalensis* was identified during the study of the osteological remains. A taphonomic analysis has been carried out and revealed an excellent preservation of the osteological remains. Nearly half of the total amount of bones bears butchering marks: scraping and cut marks, impact notches and spiral fractures have been identified on the surface of several bones shafts. Furthermore, the high number of pieces carrying retouch induced stigmata is astonishing: 204 bone shafts, counting also those coming from Unit 1Rim, showed to have been used as tools in the lithic chaînes opératoires. The faunal association reflects an open plains environment, in a generally cold-temperate climatic context. Moreover, large-sized cervids and Auroch confirm this point of view and suggest the presence of a swampy area with water sources. In general, the zooarchaeological analyses reveal how Neanderthals intensively exploited large-sized herbivores such as the Giant Deer and the bovids, as food supplies. This hunting behavior is peculiar of the site and clearly diverges from the predation model recognized in other sites on the Pre-Alpine belt and can be mostly ascribed to the age and the position of the site, in the middle of the Venetian plain. This unique feature and the presence of the Quina method make the De Nadale Cave an important site to understand the complexity of Neanderthal behavior and his settlement pattern in the North of Italy.

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