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**ABSTRACT BOOK**

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## LATE GLACIAL TECHNOLOGICAL EVOLUTION IN NE IBERIA: INSIGHTS FROM COVA DE LES BORRES AND COVA GRAN DE MONTSERRAT SEQUENCES

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**Abstract format:** Oral

Northeastern Iberia has a long-established research tradition on Late Pleistocene archaeology, resulting in an extensive record of sites that have allowed continuous discussion and refinement of the periodization models for the cultural evolution during the Pleistocene-Holocene transition. Post-Magdalenian assemblages (Epipalaeolithic sensu lato; post-ca.14000 cal BP) have been characterized as microlaminar industries with clear Magdalenian filiation, as suggested by the stability of their general design with minor gradual modifications in the production systems and typological structure.

In this paper we present unpublished technological and chronological data from the recently excavated multi-stratified sequences of Cova de les Borres (La Febró, Tarragona) and Cova Gran de Montserrat (Collbató, Barcelona), and discuss their role within the actual state-of-the-art for the post-Magdalenian sequence from both regional (NE Iberia) and macro-regional (SW Europe) perspectives.

Cova de les Borres rockshelter has been excavated since 2015, opening a surface over 35m<sup>2</sup>. Within its archaeological sequence, layers 2.1 and 2 are dated to the mid GI-1, and layer 1.2 to the late GI-1 – early GS-1. These yielded abundant lithic remains, featuring similar blade and bladelet production strategies and retouched assemblages, dominated by endscrapers and backed elements, but standing out the appearance of geometric microliths in layer 1.2.

At Cova Gran cave, excavated since 2018 through over 25 m<sup>2</sup>, Late Glacial occupations have been documented in two archaeological layers: layer 202, dated to the mid GI-1, and still scarcely investigated; and layer 200, which yielded well-preserved occupations dated to the GS-I and a microlaminar lithic assemblage with endscrapers, backed elements and geometric microliths.

This work will contribute with new valuable chronological and techno-typological data to the discussion of major questions regarding the final Pleistocene technological and cultural evolution, such as the evolution of the post-Magdalenian techno-complexes, including the appearance of the first geometric microliths, during the Late Glacial period.

## MULTI-ISOTOPE STUDY ON UNGULATES FROM COVA DE LES CENDRES (ALACANT, SPAIN): PALEOENVIRONMENT AND HUNTING STRATEGY RECONSTRUCTIONS THROUGHOUT THE UPPER PALEOLITHIC

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**Abstract format:** Oral

We here present isotopic analysis of wild goat and red deer remains from the site of Cova de les Cendres (Mediterranean coast of central eastern Iberia) as a proxy to reconstruct paleoecological conditions during the Late Pleistocene and to assess hunting strategies of Upper Palaeolithic human groups in the region. Analysing both carbon and nitrogen isotope ratios on bone bulk collagen, as well as carbon and oxygen isotope ratios on sequential samples of molar enamel, offers isotopic different temporal resolutions of an animal's life to address these questions. During this time period, climatic conditions changed rapidly and human occupations were adapted to abrupt modifications on environmental conditions. Both species analysed (*Capra pyrenaica* and *Cervus elaphus*) are dominant throughout