

Dating MEGAFauna Extinction IN THE CARPATHIAN BASIN and examining its relation to paleoenvironmental and Paleoclimate changes 2016-2020 (GINOP-2.3.2-15-2016-00009)

This project aims to date the extinction times of the megafauna members using AMS ^{14}C dating on the large bone collections of Hungarian museums (mainly MTM, MÁFI) (e.g., wholly mammoth, cave bear, horse, reindeer) and examine the relation of these extinction times with ecosystem changes in the Carpathian Basin. In addition we re-examine iconic cave bone assemblages (Rejteck, Jankovich Cave) representing faunal changes during the last glacial termination in order to build radiocarbon chronologies of the major faunal changes. Ecosystem changes are studied using pollen, plant macrofossil, charcoal and coprophilous fungi studies of lake and mire sediments dating to this time period in the Carpathian Basin (Kokad Mire, Lake St Anne, Lake Brazi, Lake Kengyel). $\delta^{18}\text{O}$, $\delta^{13}\text{C}$, $\delta^{15}\text{N}$ and $\delta^2\text{H}_{\text{org}}$ measurements are used on lake sediments for paleo-hydrological and paleoclimate reconstructions.

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