

Dataset 1. Twenty new fossil and subfossil specimens

Sample ID	Extraction code	Site name	Locality in Spain	C ¹⁴ date B.P.	Accession number
Villavieja	Ua1	Villavieja	Castellón	Holocene	EU400208
Maza Cotina	Ua2	Maza Cotina	Burgos	1,695 ± 35	EU400211
La Paloma	Ua3	La Paloma	Asturias	6,145 ± 160	EU400210
Aketegi	Ua4	Aketegi II	País Vasco	1,640 ± 35	EU400209
Hortiguela	Ua5	Cueva de Tresmajuelos	Burgos	6,325 ± 5 0	EU400179
Vb88T6	Ua6	Valdegoba	Burgos	~ 80,000	EU400182
VbL13	Ua7	Valdegoba	Burgos	~ 80,000	EU400183
Vdgba	Ua8	Valdegoba	Burgos	~ 80,000	EU400181
Gal	Ua9	Cueva Do Eixe	Galicia		EU400177
Asieko	Ua10	Arlanpe	País Vasco	Pleistocene*	EU400180
Machorras	Ua11	Cuevas del Somo	Burgos	Holocene [†]	EU400176
O.Pal	Ua12	Palencia	Palencia	Holocene [†]	EU400178
PEU	Ua13	Tielve	Asturias	~40YA	EU400207
<i>CAO 86</i>	Ua14	A Valiña	Galicia		
<i>CAO 15</i>	Ua15	A Valiña	Galicia		
<i>PVD3 105</i>	Ua16	Pinilla	Madrid		
<i>PVY 813</i>	Ua17	Pinilla	Madrid		
<i>PVD3 270</i>	Ua18	Pinilla	Madrid		
<i>PV 2433</i>	Ua19	Pinilla	Madrid		
Vb9184 [‡]	Ua20	Valdegoba	Burgos	~ 80,000	

YA, years ago. Samples that did not yield DNA are shown in italics.

*Two extreme dates (40KY or 80KY) compatible with the information about the excavation context have been assigned for serial coalescent simulations.

[†]Inferred as the average of absolute ages of the specimens belonging to the same time period for serial coalescent simulations.

[‡]Sample identified as cave bear.