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Tables

Table 1: $^{87}\text{Sr}/^{86}\text{Sr}$ results from all samples

Site	Genus	Cat #	Type	$^{87}\text{Sr}/^{86}\text{Sr}$	Site	Genus	Cat #	Type	$^{87}\text{Sr}/^{86}\text{Sr}$
Zambujal	<i>Bos</i>	z807	Enamel	0.70960	Leceia	<i>Bos</i>	L8	Enamel	0.70817
Zambujal	<i>Bos</i>	z1526	Enamel	0.71078	Leceia	<i>Bos</i>	L10	Enamel	0.70695
Zambujal	<i>Bos</i>	z811	Enamel	0.70872	Leceia	<i>Bos</i>	L16	Enamel	0.70560
Zambujal	<i>Bos</i>	z1499	Enamel	0.70872	Leceia	<i>Bos</i>	L17	Enamel	0.70461
Zambujal	<i>Bos</i>	z932	Enamel	0.71024	Leceia	<i>Bos</i>	L4	Enamel	0.70471
Zambujal	<i>Bos</i>	z1051	Enamel	0.70923	Leceia	<i>Bos</i>	L19	Enamel	0.70494
Zambujal	<i>Bos</i>	z886	Enamel	0.70856	Leceia	<i>Bos</i>	L27	Enamel	0.70524
Zambujal	<i>Bos</i>	z000	Enamel	0.70900	Leceia	<i>Bos</i>	L1	Enamel	0.70841
Zambujal	<i>Bos</i>	z1562	Enamel	0.71007	Leceia	<i>Bos</i>	L6	Enamel	0.70817
Zambujal	<i>Bos</i>	z1464	Enamel	0.70920	Leceia	<i>Bos</i>	L30	Enamel	0.71794
Zambujal	<i>Bos</i>	z643	Enamel	0.70868	Leceia	<i>Bos</i>	L24	Enamel	0.70848
Zambujal	<i>Bos</i>	z1524	Enamel	0.71067	Leceia	<i>Bos</i>	L9	Enamel	0.70547
Zambujal	<i>Bos</i>	z68051	Enamel	0.70643	Leceia	<i>Bos</i>	L31	Enamel	0.70746
Zambujal	<i>Bos</i>	z1144	Enamel	0.70540	Leceia	<i>Bos</i>	L52	Enamel	0.70938
Zambujal	<i>Bos</i>	z1225	Enamel	0.70766	Leceia	<i>Bos</i>	L2	Enamel	0.70842
Zambujal	<i>Bos</i>	z591	Enamel	0.70863	Leceia	<i>Bos</i>	L7	Enamel	0.70893
Zambujal	<i>Bos</i>	z803	Enamel	0.70963	Leceia	<i>Bos</i>	L20	Dentine	0.70736
Zambujal	<i>Bos</i>	z62	Enamel	0.71017	Leceia	<i>Bos</i>	L17	Dentine	0.70564
Zambujal	<i>Bos</i>	z778	Enamel	0.71228	Leceia	<i>Bos</i>	L4	Dentine	0.70577
Zambujal	<i>Bos</i>	z68015	Enamel	0.71274	Leceia	<i>Bos</i>	L5	Dentine	0.71227
Zambujal	<i>Bos</i>	z1814	Enamel	0.71256	Leceia	<i>Bos</i>	L18	Dentine	0.70733
Zambujal	<i>Bos</i>	z971	Enamel	0.71032	Leceia	<i>Bos</i>	L2	Dentine	0.70510
Zambujal	<i>Bos</i>	z1168	Enamel	0.70947	Leceia	<i>Oryctolagus</i>	L9	Bone	0.70695
Zambujal	<i>Bos</i>	z1513	Enamel	0.70852	Leceia	<i>Oryctolagus</i>	L6	Bone	0.70743
Zambujal	<i>Bos</i>	z68071	Enamel	0.71002	Leceia	<i>Oryctolagus</i>	L3	Bone	0.70703
Zambujal	<i>Bos</i>	z1181	Enamel	0.70848	Leceia	Leaf	Leaf L1		0.70737
Zambujal	<i>Bos</i>	z155	Enamel	0.70951	Leceia	Leaf	Leaf L2		0.70738
Zambujal	<i>Bos</i>	z1168	Dentine	0.71068					
Zambujal	<i>Bos</i>	z1513	Dentine	0.70890					
Zambujal	<i>Bos</i>	z68071	Dentine	0.71027					
Zambujal	<i>Bos</i>	z1051	Dentine	0.70910					
Zambujal	<i>Bos</i>	z643	Dentine	0.70790					
Zambujal	<i>Bos</i>	z1042	Dentine	0.71042					
Zambujal	<i>Bos</i>	z1181	Dentine	0.70896					
Zambujal	<i>Oryctolagus</i>	z238401	Bone	0.70864					
Zambujal	<i>Leaf</i>	Leaf Z1		0.70892					
Zambujal	<i>Leaf</i>	Leaf Z2		0.70893					

Table 2: Results from enamel and dentine pairs

Site	Genus	Cat #	$^{87}\text{Sr}/^{86}\text{Sr}$ Enamel	$^{87}\text{Sr}/^{86}\text{Sr}$ Dentine
Zambujal	Bos	z1051	0.70923	0.70910
Zambujal	Bos	z643	0.70868	0.70790
Zambujal	Bos	z1168	0.70947	0.71068
Zambujal	Bos	z1513	0.70852	0.70890
Zambujal	Bos	z68071	0.71002	0.71027
Zambujal	Bos	z1181	0.70848	0.70896
Leceia	Bos	L17	0.70461	0.70564
Leceia	Bos	L4	0.70471	0.70577
Leceia	Bos	L2	0.70842	0.70510

Table 3: Results of the Mann-Whitney U test for differences in $^{87}\text{Sr}/^{86}\text{Sr}$ values between sites

Site	n	W Sum ranks	z	p
Zambujal	27	738.50	-3.631	0.000
Leceia	16	207.50		
Total	43			

Table 4: $^{87}\text{Sr}/^{86}\text{Sr}$ `local` values from sites across central and south west Iberia. *Local values are presented as given in the stated references, but are not always calculated in the same way. All ranges are given to three decimal places, with the exception of Monte Cegonha, which has a very small range.

# in Figure 7	Area/site	Local value*	Reference
1	Leceia (Estremadura)	0.706 – 0.708	This work
2	Zambujal region (Estremadura)	0.709 - 0.712	Waterman et al. 2014, and this work
3	Bom Santo Cave (Estremadura)	0.709 - 0.710	Carvalho et al. 2016
4	Perdigões (Alentejo)	0.714 - 0.715	Žalaitė et al. 2018
5	La Pijotilla (SW Spain)	0.712-0.715	Diaz-Zorita-Bonilla 2013
6	Rego da Murta I and II (Ribetejo region, Estremadura)	0.711 – 0.713	Waterman et al. 2013
7	Valencina-Castilleja (SW Spain)	0.708-0.710	Diaz-Zorita-Bonilla 2013
8	Sites near Madrid, Tagus Basin, (Spain)	0.707-0.713	Díaz-del-Río 2016
9	Monte Cegonha	0.7108-0.7111	Saragoça et al. 2016