

Table S1. Stable carbon and oxygen isotopic results of Elephantidae from La Polledrara, Casal de' Pazzi, and Poggetti Vecchi.

	Country	Site	Age (ka)	Order	Family	Species	Sampling technique	Tissue	$\delta^{13}\text{C}$ (VPDB)	$\delta^{18}\text{O}$ (SMOW)	Reference
1	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-9	24,8	Palombo et al. 2005
2	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,2	27,4	Palombo et al. 2005
3	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,9	26,8	Palombo et al. 2005
4	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,8	26,5	Palombo et al. 2005
5	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,3	26,8	Palombo et al. 2005
6	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,6	27	Palombo et al. 2005
7	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,7	27,6	Palombo et al. 2005
8	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,4	27	Palombo et al. 2005
9	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,1	26,8	Palombo et al. 2005
10	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-9,8	27	Palombo et al. 2005
11	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,6	26,8	Palombo et al. 2005
12	Italy	La Polledrara	300	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,6	26,7	Palombo et al. 2005
13	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-13,2	23,9	this study
14	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-13,3	24,6	this study
15	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-11,5	23,5	this study
16	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-14,6	24,9	this study
17	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-14,7	24,7	this study
18	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-12,9	23,9	this study
19	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-10,9	25,2	this study
20	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-12,6	22,8	this study
21	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-9,4	24,8	this study
22	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-11,9	26,1	Palombo et al. 2005
23	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-9,9	27,2	Palombo et al. 2005
24	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-11,3	27	Palombo et al. 2005
25	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-12,1	25,9	Palombo et al. 2005
26	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-11,4	25,9	Palombo et al. 2005
27	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-11,3	26,3	Palombo et al. 2005
28	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-11,3	26	Palombo et al. 2005
29	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-13	26,3	Palombo et al. 2005
30	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-13,7	27,2	Palombo et al. 2005
31	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-13,3	27,1	Palombo et al. 2005
32	Italy	Casal de' Pazzi	240 - 200	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-13,7	27	Palombo et al. 2005
33	Italy	Poggetti Vecchi	171	Proboscidea	Elephantidae	<i>Palaeoloxodon antiquus</i>	Bulk sampling	enamel	-11,05	26,7	Capalbo 2018