

Table S3. Stable carbon and oxygen isotopic results of Rhinocerotidae from Isernia La Pineta, Guado San Nicola, and Casal de' Pazzi.

	Country	Site	Age (ka)	Order	Family	Species	Sampling technique	Tissue	$\delta^{13}\text{C}$ (VPDB)	$\delta^{18}\text{O}$ (SMOW)	Reference
1	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-14,6	24,7	Zanazzi et al. 2022
2	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13	22,7	Zanazzi et al. 2022
3	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,3	23,6	Zanazzi et al. 2022
4	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13	23,3	Zanazzi et al. 2022
5	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-12,9	24,2	Zanazzi et al. 2022
6	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,2	23,6	Zanazzi et al. 2022
7	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,7	24,2	Zanazzi et al. 2022
8	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,8	24	Zanazzi et al. 2022
9	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,6	23,7	Zanazzi et al. 2022
10	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,8	23,6	Zanazzi et al. 2022
11	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,6	24,3	Zanazzi et al. 2022
12	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,8	23,8	Zanazzi et al. 2022
13	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,1	23,8	Zanazzi et al. 2022
14	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,3	24,2	Zanazzi et al. 2022
15	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,4	24,3	Zanazzi et al. 2022
16	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-13,4	24,5	Zanazzi et al. 2022
17	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-14,2	25	Zanazzi et al. 2022
18	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-14,4	24,9	Zanazzi et al. 2022
19	Italy	Isernia La Pineta	600	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus hundsheimensis</i>	Median by serial sampling	enamel	-14	25,3	Zanazzi et al. 2022
20	Italy	Guado San Nicola	400	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Median by serial sampling	enamel	-12	25	Zanazzi et al. 2022
21	Italy	Guado San Nicola	400	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Median by serial sampling	enamel	-13,3	25,3	Zanazzi et al. 2022
22	Italy	Guado San Nicola	400	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Median by serial sampling	enamel	-11,8	23,7	Zanazzi et al. 2022
23	Italy	Guado San Nicola	400	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Median by serial sampling	enamel	-12,4	25,2	Zanazzi et al. 2022
24	Italy	Guado San Nicola	400	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Median by serial sampling	enamel	-11,7	25,2	Zanazzi et al. 2022
25	Italy	Guado San Nicola	400	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Median by serial sampling	enamel	-12,1	25	Zanazzi et al. 2022
26	Italy	Guado San Nicola	400	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Median by serial sampling	enamel	-12	25	Zanazzi et al. 2022
27	Italy	Casal de' Pazzi	240 - 200	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Bulk sampling	enamel	-12,6	24,3	this study
28	Italy	Casal de' Pazzi	240 - 200	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Bulk sampling	enamel	-12,5	24,2	this study
29	Italy	Casal de' Pazzi	240 - 200	Perissodactyla	Rhinocerotidae	<i>Stephanorhinus kirchbergensis</i>	Bulk sampling	enamel	-12,6	22,8	this study