

SUPPLEMENTARY MATERIAL

to the paper

Feeding ecology and habitat of Late Pleistocene Equus horses from west-central Mexico using carbon and oxygen isotopes variation

by

**Alejandro H. Marín-Leyva, Joaquín Arroyo-Cabrales, María Luisa García-Zepeda, Javier Ponce-Saavedra, Peter Schaaf<sup>1</sup>, Víctor Adrián Pérez-Crespo, Pedro Morales-Puente, Edith Cienfuegos-Alvarado, and María Teresa Alberdi**

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Table S1. Isotopic data and percent C<sub>4</sub> plants in diets of Late Pleistocene horses from two localities in west-central Mexico.

Taxon	UF no.	Part	Site	$\delta^{13}\text{C}_{\text{VPDB}}$	Percent C <sub>4</sub>	$\delta^{18}\text{O}_{\text{VPDB}}$	$\delta^{18}\text{O}_{\text{VSMOW}}$
<b><i>E. cedralensis</i></b>	<b>UM 153</b>	<b>P4 R</b>	<b>LC-PT</b>	<b>-1.24±0.2</b>	<b>75.10±1.33</b>	<b>-4.23±0.2</b>	<b>26.68±0.2</b>
<i>E. cedralensis</i>	UM 678	M3 R	LC-PT	0.24±0.2	84.95±1.33	-7.05±0.2	23.85±0.2
<i>E. cedralensis</i>	UM 40	M3 R	LC-PT	0.69±0.2	87.96±1.33	-4.02±0.2	26.89±0.2
<i>E. cedralensis</i>	UM 696	M3 R	LC-PT	0.24±0.2	84.90±1.33	-4.19±0.2	26.72±0.2
<i>E. cedralensis</i>	UM 334	M3 R	LC-PT	1.68±0.2	94.53±1.33	-6.22±0.2	24.69±0.2
<b><i>E. conversidens</i></b>	<b>UM 527</b>	<b>P4 L</b>	<b>LC-PT</b>	<b>0.03±0.2</b>	<b>83.55±1.33</b>	<b>-5.39±0.2</b>	<b>25.52±0.2</b>
<i>E. conversidens</i>	UM 105	M3 L	LC-PT	-1.93±0.2	70.44±1.33	-5.24±0.2	25.67±0.2
<i>E. conversidens</i>	UM 165	M3 L	LC-PT	-0.60±0.2	79.31±1.33	-4.84±0.2	26.06±0.2
<i>E. conversidens</i>	UM 330	M3 L	LC-PT	-0.26±0.2	81.57±1.33	-2.68±0.2	28.23±0.2
<i>E. conversidens</i>	UM 376	M3 L	LC-PT	-1.78±0.2	71.47±1.33	-5.85±0.2	25.05±0.2
<b><i>E. mexicanus</i></b>	<b>UM 686</b>	<b>P4 L</b>	<b>LC-PT</b>	<b>-1.50±0.2</b>	<b>73.36±1.33</b>	<b>-3.55±0.2</b>	<b>27.36±0.2</b>
<i>E. mexicanus</i>	UM 530	P4 L	LC-PT	-1.89±0.2	70.74±1.33	-5.77±0.2	25.14±0.2
<i>E. mexicanus</i>	UM 95	P4 R	LC-PT	-3.21±0.2	61.91±1.33	-2.28±0.2	28.63±0.2
<i>E. mexicanus</i>	UM 700	M3 R	LC-PT	-2.43±0.2	67.14±1.33	-5.29±0.2	25.62±0.2
<i>E. mexicanus</i>	UM 104	M3 L	LC-PT	-3.22±0.2	61.88±1.33	-4.51±0.2	26.4±0.2
<b><i>E. cedralensis</i></b>	<b>CPOEI 189</b>	<b>P4 R</b>	<b>LP-SA</b>	<b>0.45±0.2</b>	<b>86.36±1.33</b>	<b>-3.83±0.2</b>	<b>27.07±0.2</b>
<i>E. cedralensis</i>	CPOEI 265	P4 R	LP-SA	-0.56±0.2	79.57±1.33	-2.70±0.2	28.20±0.2
<i>E. cedralensis</i>	CPOEI 269	P4 R	LP-SA	-0.74±0.2	78.39±1.33	-3.40±0.2	27.50±0.2
<i>E. cedralensis</i>	CPOEI 252	P4 R	LP-SA	1.05±0.2	90.30±1.33	-2.28±0.2	28.62±0.2
<i>E. cedralensis</i>	UM 567	M3 R	LP-SA	-3.23±0.2	61.77±1.33	-7.94±0.2	22.96±0.2
<b><i>E. conversidens</i></b>	<b>CPOEI 267</b>	<b>P4 R</b>	<b>LP-SA</b>	<b>-2.71±0.2</b>	<b>65.24±1.33</b>	<b>-4.22±0.2</b>	<b>26.69±0.2</b>
<i>E. conversidens</i>	CPOEI 185	M3 R	LP-SA	-0.48±0.2	80.12±1.33	-6.58±0.2	24.33±0.2
<i>E. conversidens</i>	CPOEI 266	M3 L	LP-SA	-1.05±0.2	76.33±1.33	-6.00±0.2	24.91±0.2
<i>E. conversidens</i>	CPOEI 257	M3 R	LP-SA	0.44±0.2	86.27±1.33	-4.62±0.2	26.29±0.2
<i>E. conversidens</i>	CPOEI 255	M3 L	LP-SA	1.34±0.2	92.26±1.33	-5.24±0.2	25.67±0.2
<b><i>E. mexicanus</i></b>	<b>CPOEI 37</b>	<b>P4 L</b>	<b>LP-SA</b>	<b>-0.39±0.2</b>	<b>80.76±1.33</b>	<b>-4.54±0.2</b>	<b>26.37±0.2</b>
<i>E. mexicanus</i>	CPOEI 254	P4 L	LP-SA	-0.67±0.2	78.88±1.33	-4.84±0.2	26.07±0.2
<i>E. mexicanus</i>	CPOEI 253	P4 L	LP-SA	-0.43±0.2	80.47±1.33	-4.84±0.2	26.06±0.2
<i>E. mexicanus</i>	CPOEI 259	M3 L	LP-SA	-1.13±0.2	75.77±1.33	-4.25±0.2	26.65±0.2
<i>E. mexicanus</i>	CPOEI 256	M3 R	LP-SA	-1.70±0.2	71.97±1.33	-3.71±0.2	27.19±0.2

Notes and Abbreviations: All samples come from two localities: La Cinta-Portalitos (LC-PT) and La Piedad-Santa Ana (LP-SA). Fossils are stored in Colección Paleontológica, Universidad Michoacana de San Nicolás de Hidalgo (UM) and Colección Paleontológica, Organización Especial de Investigación, La Piedad, Michoacán (CPOEI). UF No. refers to cataloged specimens. Part of tooth analyzed. Abbreviations: L = left; R = right; P4 = fourth upper premolar; M3 = third upper molar; VPDB = Vienna Pee Dee Belemnite Limestone, SMOW: Vienna Standard Mean Ocean Water. Percentage of C<sub>4</sub> plants consumed based on Equation 1 [(100)  $\delta^{13}\text{C}_{\text{sample}} = (100 - X) \delta^{13}\text{C}_{100\% \text{C}_3 \text{enamel}} + (X) \delta^{13}\text{C}_{100\% \text{C}_4 \text{enamel}}$ ], where enamel  $\delta^{13}\text{C}_{100\% \text{C}_3}$  value is -12.5 ‰ and enamel  $\delta^{13}\text{C}_{100\% \text{C}_4}$  value is 2.5 ‰, corresponding to estimates for the Late Pleistocene (Koch *et al.* 2004), and X is the percent of C<sub>4</sub> plants in the diet.  $\delta^{18}\text{O}_{\text{VSMOW}}$  was calculated following Equation 2  $^{18}\text{OVSMOW}_{\text{CO}_3} = 1.030901 * \delta^{18}\text{O}_{\text{VPDB}} + 30.91$  (Faure, 1977), where  $\delta^{18}\text{O}_{\text{VPDB}}$  is the value reported here for the samples.