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SUPPLEMENTARY DATA 4

Comparative anatomy, phylogeny and systematics of the Miocene giraffid *Decennatherium pachecoi* Crusafont, 1952 (Mammalia, Ruminantia, Pecora): state of the art



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SUPPLEMENTARY DATA 4. Distribution of the main characters used in the phylogenetic analysis.

TABLE 1S. Distribution of the main characters of the Giraffidae used in the phylogenetic analysis at genus level.

	Number of ossicones (1)	Ossicone position (7, 8, 9)	Ossicone orientation (10, 11, 12)	Ossicone surface and ornamentati on (5, 6)	Ossicone tip (4, 14)	Lower teeth length (18, 19)	Metapodial length (30, 34)	Metacarpal robustness (30)	Metapodial palmar trough depth (32, 36)
Basal giraffids									
<i>Canthumeryx</i>	2	Above the orbit	?	?	?	Small	Short	Very slender	?
<i>Giraffokeryx</i>	4	Anterior pair anterior to the orbit, separated at their base	Both pairs posteriorly, curved	With ridges	No bare ossicone apices, blunt tip	Small	Short	Very slender	?
<i>Injanatherium</i>	4	?	?	With ridges	No bare ossicone apices, blunt tip	Small	Short	Very slender	Very deep 
Okapinae									
<i>Okapia</i>	2	Above the orbit	Posteriorly, curved	With ridges	Presence of bare ossicone apices	Small	Short	Slender	Medium 

Palaeotraginae									
<i>Palaeotragus</i>	2	Above the orbit in <i>P. rouenii</i> , more posterior to the orbit in <i>P. microdon</i>	Only slightly posteriorly, almost straight	Soft	Presence of bare ossicone apices, pointy tip	Small	Short	Very slender	Medium-shallow 
Giraffinae									
<i>Giraffa</i>	2 + median (if present)		Posteriorly, curved	With ridges, with bumps in some older specimens of <i>G. camelopardalis</i>	No bare ossicone apices, very wide tip	Medium	Very long	Slender / very slender	Very-shallow 
Bohlininae									
<i>Bohlinia</i>	2	More posterior to the orbit	Posteriorly, curved	With ridges	No bare ossicone apices, blunt tip	?	Very long	Very slender	Very deep 
<i>Honanotherium</i>	2	Above the orbit	Posteriorly, curved	With ridges	No bare ossicone apices, blunt tip	Medium	Long	Medium robustness	Very deep 
Sivatheriinae									
<i>Birgerbohlinia</i>	4	?	?, curved	With ridges	No bare ossicone apices, blunt	Large	Medium	Very robust	Very deep

					tip				
<i>Sivatherium</i>	4	Anterior pair above or posterior to the orbit, separated at their base	Anterior pair anteriorly, posterior pair posteriorly; curved	With ridges, with bumps in <i>S. maurusium</i> and <i>S. olduvaiense</i> ,	No bare ossicone apices, blunt tip	Large	Short / medium in <i>S. hendeyi</i> , short in the rest	Very robust	<div>Medium / deep</div>  
<i>Bramatherium</i>	4	Anterior pair above or posterior to the orbit, anterior and posterior pair united at their base	Both pairs posterior / straight, curved	With ridges	No bare ossicone apices, blunt tip	Large	Medium	Very robust	<div>Medium</div> 
Samotheriinae									
<i>Samotherium</i>	2	Above the orbit /in <i>S. boissieri</i> , more posterior to the orbit in <i>S. major</i> and <i>S. neumayri</i>	Posteriorly in <i>S. major</i> , almost straight in <i>S. boissieri</i> and laterally in <i>S. sinense</i>	With ridges	Presence of bare ossicone apices in <i>S. major</i> , pointy tip	Medium / large	Medium / long	Medium / very robust	<div>Medium-shallow</div> 
<i>Schansitherium</i>	1	More posterior to	Anterior pair anteriorly,	With ridges,	No bare ossicone	Small	Medium	Medium	Medium-shallow

		the orbit in <i>S. quadricornis</i> / Anterior pair anterior to the orbit, anterior and posterior pair united at their base	posterior pair posteriorly; straight / curved	with bumps	apices, blunt tip			robustness	
<i>Decennatherium</i>	?	?	?	?	?	Medium	Medium	Medium robustness	Medium-shallow 