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SUPPLEMENTARY ONLINE MATERIAL FOR

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**A new *Eliomys* from the Late Miocene of Spain, and its implications for the  
phylogeny of the genus**

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**Supplementary Online Material**

Number of specimens, which show the morphological characters described in the main text.

*Characters of m1,2 and m3*

- A:** Connection anterolophid-protoconid present
- B:** Connection anterolophid-protoconid absent
- C:** Connection metalophid-metaconid present
- D:** Connection metalophid-metaconid absent
- E:** Centrolophid absent
- F:** Centrolophid connected to the metaconid
- G:** Centrolophid not connected to the metaconid
- H:** Long centrolophid
- I:** Short centrolophid
- J:** Presence of posterotropid
- K:** Absence of posterotropid

*Characters of M1,2*

- A:** Presence of precentroloph
- B:** Presence of postcentroloph
- C:** Presence of both centrolophs
- D:** Absence of centrolophs
- E:** Connection posteroloph-endoloph present
- F:** Connection posteroloph-endoloph absent

*Characters of M3*

- A:** Absence of precentroloph
- B:** Precentroloph connected to paracone
- C:** Precentroloph not connected to paracone
- D:** Absence of postcentroloph
- E:** Postcentroloph connected to metacone
- F:** Postcentroloph not connected to metacone
- G:** Presence of both centrolophs
- H:** Connection posteroloph-endoloph present
- I:** Connection posteroloph-endoloph absent

*Eliomys* species per locality:

- *E. quercinus*: ACB (Almenara Casablanca), El Salt, Huetor Tájar, La Salema,
- *E. intermedius*: AC-0, Arquillo 3, AL-2D, Balaruc 2, Bélmez 1, Caravaca, Cañada Castaños, Gorafe 2 and 5, La Gloria 4, LB-2B, Layna , Moreda-1A and 1B, Orrios 3, PUR-13, Sète, TCH-1B and 3, Villalba Alta
- *E. yevesi*: ABS-3A, AF-1, PUR-4, VM-A, B, BC, C and D
- *E. truci*: Botardo C, Concud 2 and 3, Crevillente 6, DHS-1, Hautimagne, La Gloria 5, Los Mansuetos , Masada del Valle 5, PUR-23, 24-A, 25 and 25A, Orrios 3, Sète, TCH-1B and 13, Tortojada A and C, OTU-1, Valdecebro 6, Villalba Alta, Villastar
- *Eliomys* sp.: Aljezar B, Negratín 1, Crevillente 1, 3 and 5.

When *E. intermedius* and *E. truci* are present in the same locality we use (in.) for *intermedius* and (tr.) for *truci*.

m1,2

Locality	A	B	C	D	E	F	G	H	I	J	K
La Salema	6	2	4	2	2	0	3	0	5	1	6
El Salt	1	0	2	0	1	0	1	0	1	0	2
ACB 1/5	1	0	0	1	0	0	1	0	1	0	1
Huetor Tájar	0	1	1	0	0	1	0	0	1	0	1
Moreda 1B	5	2	7	0	0	3	4	4	3	5	2
TCH-13	0	2	1	1	1	0	1	0	1	1	1
TCH-3	5	5	6	4	2	3	5	3	5	2	8
TCH-1B (in.)	4	6	7	5	0	2	10	4	8	6	6
TCH-1B (tr.)	1	0	0	1	0	0	1	0	0	1	0
Séte	10	20	14	16	0			30	0	30	0
Orrios 3 (in.)	1	1	0	2	0			1	1	2	0
Orrios 3 (tr.)										1	0
Bélmez 1	7	0	7	0	0	3	4	6	2	3	5
Arquillo 3	5	5	5	5	0			8	2	8	2
Villalba Alta	6	4	6	4	0			10	1	7	4
Moreda-1A	4	0	4	0	0	2	2	4	0	4	0
Gorafe 2	1	0	1	0	0	0	1	0	1	1	0
Gorafe 5	1	0	1	0	0	0	1	0	1	1	0
Hautimagne	4	0	1	3	0			4	0	4	0
PUR-13	0	5	4	1	0	2	3	3	2	5	0
AL-2D	1	1	1	0	0	1	0	1	0	1	0
LB-2B	1	3	3	1	0	2	1	3	0	4	0
La Gloria 4			1	0	0			1	0	1	0
ABS-3A	1	0	0	1	0	0	1	1	0	1	0
AF-1	1	0	0	1	0	1	0	1	0	1	0
PUR-4	10	2	9	3	0	8	4	12	0	12	0
Botardo C	0	2	2	1	0	1	1	1	0	2	0
Negratín 1	2	0	2	0	0	1	1	2	0	2	0
VM-A	4	7	11	0	0	10	1	10	1	10	2
VM-B	1	0	1	0	0	1	0	1	0	1	0
VM-BC	1	1	1	1	0	2	0	2	0	2	0
PUR-25A	2	0	0	2	0	0	2	2	0	2	0
PUR-25	0	1	1	0	0	0	1	1	0	1	0
PUR-24A	0	1	0	1	0	1	0	1	0	1	0
PUR-23	0	2	0	2	0	1	1	2	0	2	0
OTU-1	0	3	1	2	0	0	2	1	2	3	0
Villastar			1	0	0			3	0	1	0
La Gloria 5			3	0	0			0	3	3	0
Valdecebro 6			2	0	0			2	0	2	0
Los Mansuetos	1	1	0	2	0			1	1	2	0
Aljezar B	0	1	1	0	1			0	0	1	0

m3

Locality	A	B	C	D	E	F	G	H	I	J	K
Salema	1	0	1	0	1	0	0	0	0	0	1
ACB 1/1	0	1	1	0	1	0	0	0	0	0	1
Huétor Tájar	2	0	2	0	0	0	2	0	2	0	2
Moreda-1B	1	1	2	0	0	0	2	0	2	0	2
TCH-13	0	1	0	1	0	0	1	0	1	0	1
TCH-3	2	4	3	3	2	1	3	0	6	0	6
TCH-1B	1	4	2	5	2	0	4	0	6	1	5
Sete (in.)					0			20	0	6	15
Sete (tr.)								1	0		
Bélmez 1	0	2	2	0	0	0	2	0	2	0	2
Arquillo 3					0			1	0	0	1
Villalba Alta (in.)					0			3	0	1	2
Villalba Alta (tr.)	0	1	1	0	0			0	1	0	1
Hautimagne								4	0	0	4
Moreda 1A	0	1	1	0	0	0	1	0	1	0	1
PUR-13	0	1	0	1	0	0	1	0	1	0	1
AL-2D	1	0	1	0	0	0	1	0	1	0	1
AC-0	0	1	1	0	1	0	0	0	0	1	0
LB-2B			1	0	0	0	1	0	1	0	1
AF-1		?		?	0		?		?		?
CLC-3B	0	1	1	0	0	0	1	0	1	0	1
PUR-4	0	3	3	0	1	0	2	0	2	0	3
Negratín 1	0	1	0	1	1	0	0	0	0	0	1
VM-A	2	4	3	3	3	0	3	1	2	0	6
VM-BC	0	2	1	1	1	0	1	0	1	0	2
OTU-1	0	2	0	2	2	0	0	0	0	0	2
La Gloria-5			1	0	1			0	1	1	0
Los Mansuetos								0	1	0	1
Aljezar B			1	1	1			0	1		

M1,2

<b>Locality</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
Salema	1	0	5	0	0	5
Salt	1	0	0	0	1	0
ACB 1/1	0	0	2	0	1	0
Huétor Tájar	0	0	2	0	1	0
Moreda-1B	1	1	2	0	3	1
TCH-13	1	0	0	0	0	1
TCH-3	7	1	5	1	12	2
TCH-1B	8	1	3	0	10	3
TCH-1B	2	0	0	0	2	0
Balaruc 2			5		5	0
Layna			0		3	0
Sete			25		34	0
Orrios 3			1		1	0
Orrios 3			1		1	1
Bélmez 1	3	3	2	0	6	0
Arquillo 3			11	0	18	2
Villalba Alta			8	0	9	0
Moreda-1A (in.)	1	0	1	0	1	0
Moreda-1A (in)	1	0	0	0	1	0
Cañada Castaños	0	0	1	0	1	0
Gorafe2	0	0	1	0	1	0
Gorafe5	0	0	1	0	1	0
Hautimagne			0		3	1
AL-2D	0	0	2	0	2	0
PUR-13	0	0	1	0	1	0
AC-0	0	0	1	0	1	0
LB-2B	1	0	0	0	1	0
La Gloria-4	1	0	2	0	2	1
Caravaca			7		9	0
AF-1	0	0	1	0	1	0
CLC-3B	0	0	2	0	2	0
PUR-4	1	0	1	0	1	0
Negratín 1	0	1	0	0	1	0
VM-A	7	0	4	0	12	0
VM-BC	1	0	0	0	1	0
VM-D	0	0	2	0	2	0
DHS-1	1	0	0	0	1	0
PUR-23	0	0	1	0	1	0
Crevillente 6			0		1	0
OTU-1	0	0	1	0	1	0
Masada del Valle 5			0		2	0
Crevillente 5			0		1	0
Concud 3			2		6	6
Concud 2			0		1	2
Los Mansuetos			0		2	0
Tortajada C			0		0	1
Masada del Valle 2			0		6	0
Tortajada A			0		0	1
Crevillente 1			1		1	0
Crevillente 3			1		1	0

M3

<b>Locality</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>
Salt	0	1	0	0	0	1	1		
ACB 1/2	1	1	0	0	2	0	1	2	0
Huétor Tájar	1	2	0	0	3	0	2	2	1
TCH-13	1	0	0	1	0	0	0	1	0
TCH-3	2	4	0	0	3	3	4	4	2
TCH-1B	3	1	0	0	3	1	1	3	1
TCH-1B	1	0	0	1	0	1	0	1	0
Sete				1			5		
Bélmez 1	4	0	1	0	3	2	1	5	0
Arquillo 3							2		
Villalba Alta							2		
Hautimagne							0		
PUR-13	1	1	0	0	0	1	0	1	0
LB-2B	0	1	0	0	1	0	2	1	0
Caravaca							1		
CLC-3B	0	1	0	0	1	0	1	1	0
PUR-4	3	0	0	0	3	0	0	2	1
VM-A	2	4	2	1	5	1	5	8	0
VM-C	0	0	1	0	1	0	1	0	1
Los Mansuetos							0		
Viveros de Pinos	1	1	0	2	0	0	0	2	0
Concud 3							0		
Concud 2							0		
Tortajada C							0		