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**Supplementary Material of “Remarks on the Messinan carnivores from Brisighella (Faenza, Italy)” by Bartolini-Lucenti S., Madurell-Malapeira J., Rook L.**

**Measurements Used in the analysis**

**Table S1** Resuming table of measurements used in the analysis of *Felis christoli* from Cava Monticino.

Species	Site	Cat. Number	m1 L	m1W	Reference
<i>C. caracal</i>	Living	RMCA12141	10.5	5.2	-
<i>C. caracal</i>	Living	RMCA12141	12	5.5	-
<i>C. caracal</i>	Living	RMCA19238	11.4	5.8	-
<i>C. caracal</i>	Living	RMCA19238	11.8	5.5	-
<i>C. caracal</i>	Living	RMCA23450	12.6	6.2	-
<i>C. caracal</i>	Living	RMCA23450	14	6.1	-
<i>C. caracal</i>	Living	RMCA28707	12.5	5.7	-
<i>C. caracal</i>	Living	RMCA28707	12.3	5.8	-
<i>C. caracal</i>	Living	RMCA31154	10.5	5.1	-
<i>C. caracal</i>	Living	RMCA31154	10.9	5.4	-
<i>C. caracal</i>	Living	RMCA33297	11.5	5.1	-
<i>C. caracal</i>	Living	RMCA33297	11.7	5.3	-
<i>F. attica</i>	Pikermi	AMPG PG 01/107	10.2	4.3	-
<i>F. attica</i>	Pikermi	AMPG PG 01/108	10.3	4.3	-
<i>F. attica</i>	Pikermi	BSPM-PIK-AS II.116	11	5	-
<i>F. attica</i>	Pikermi	MGL 482 S	11.1	4.4	-
<i>F. attica</i>	Pikermi	PIK 3232 right	10.4	4	-
<i>F. christoli</i>	Cava Monticino	MSF 90	13	5.3	-
<i>F. christoli</i>	Montpellier	MP338	12.9	5.7	Ficcarelli and Torre 1975
<i>F. christoli</i>	Venta del Moro	NMC19	12.4	5.2	Morales and Aguirre 1976
<i>F. sylvestrus</i>	Borsuka Cave	MF/6964	8.9	4	-
<i>F. sylvestrus</i>	Jaurens	CBUL 301097	10.2	4.3	-
<i>F. sylvestrus</i>	Jaurens	CBUL 301153	8.2	3.9	-
<i>F. sylvestrus</i>	Kudaro 1	ZIN 36464	9.3	4.1	Baryshnikov 2011
<i>F. sylvestrus</i>	Kudaro 1	ZIN 36465	8.2	3.3	Baryshnikov 2011
<i>F. sylvestrus</i>	Kudaro 1	ZIN 36467	8.6	3.9	Baryshnikov 2011
<i>F. sylvestrus</i>	Lunel Viel	s.n.	8	3.8	-
<i>F. sylvestrus</i>	Lunel Viel	s.n.	8.6	3.8	-
<i>F. sylvestrus</i>	Petralona	PEC 1604	9.2	4	-
<i>F. sylvestrus</i>	Petralona	PEC 1605	9.7	4.6	-
<i>F. sylvestrus</i>	Tighennif	TER-2027	8.4	3.5	Geraads 2016
<i>F. sylvestrus</i>	Tighennif	TER-2028	8.4	3.6	Geraads 2016
<i>L. issiodorensis</i>	Almanzora	CA-101	13.6	5.9	-
<i>L. issiodorensis</i>	Cueva Victoria	Carnivora 4	14.5	5.8	-
<i>L. issiodorensis</i>	Cueva Victoria	Carnivora 9	13.2	5.7	-
<i>L. issiodorensis</i>	Etouaires	Prr 200	15.3	6.6	-
<i>L. issiodorensis</i>	Etouaires	Prr 200	14.7	6.5	-
<i>L. issiodorensis</i>	Etouaires	Prr204	15.2	6.8	-
<i>L. issiodorensis</i>	Etouaires	Prr205	14.6	6.4	-
<i>L. issiodorensis</i>	Etouaires	Prr205	14.5	6.7	-
<i>L. issiodorensis</i>	Etouaires	Prr24	15.3	6.7	-
<i>L. issiodorensis</i>	Etouaires	Prr411	16.3	6.9	-
<i>L. issiodorensis</i>	Etouaires	Prr411	16.3	6.7	-
<i>L. issiodorensis</i>	Etouaires	Prr496	14.2	6.6	-
<i>L. issiodorensis</i>	La Puebla de Valverde	LPV98'-337-16	13.14	5.42	-
<i>L. issiodorensis</i>	La Puebla de Valverde	s.n.	15.3	6.7	-
<i>L. issiodorensis</i>	Matassino	IGF 12969	13.22	6.3	-
<i>L. issiodorensis</i>	Olivola	IGF 4396	15.3	6.7	-
<i>L. issiodorensis</i>	Olivola	IGF 4396	15.3	6.9	-
<i>L. issiodorensis</i>	Pardines	IGF15071	15.9	6.7	-
<i>L. issiodorensis</i>	Pardines	L.P.150	16.1	6.4	-
<i>L. issiodorensis</i>	Pardines?	IGF15072	14.2	6.1	-
<i>L. issiodorensis</i>	Perrier	IGF12777	15.5	6.8	-
<i>L. issiodorensis</i>	Perrier	IGF12777	15.4	6.7	-
<i>L. issiodorensis</i>	Saint-Vallier	20 161872	15.7	6.5	-
<i>L. issiodorensis</i>	Saint-Vallier	20 161873	15.1	6.4	-
<i>L. issiodorensis</i>	Saint-Vallier	20 161880	15.8	7.1	-
<i>L. issiodorensis</i>	Saint-Vallier	20 161881	14.3	6.2	-
<i>L. issiodorensis</i>	Saint-Vallier	20 161884	13.8	5.7	-
<i>L. issiodorensis</i>	Saint-Vallier	20 161886	15.4	7.2	-
<i>L. issiodorensis</i>	Saint-Vallier	20 161887	14.8	7.3	-
<i>L. issiodorensis</i>	Serrat d'en Vaquer	IGF 13771	13.9	7.1	-

Species	Site	Cat. Number	m1 L	m1W	Reference
<i>L. issiodorensis</i>	Serrat d'en Vaquer	IGF 13771	14.9	6.9	-
<i>L. issiodorensis</i>	Untermassfeld	IQW 1980/16573	14.1	5.5	-
<i>L. issiodorensis</i>	Untermassfeld	IQW 1980/16573 (Mei.16094)	14.1+	5.7	-
<i>L. issiodorensis</i>	Untermassfeld	IQW 1994/24691	13	6	-
<i>L. issiodorensis</i>	Untermassfeld	IQW 1994/24691 (Mei. 24220)	13.1	5.9	-
<i>L. issiodorensis</i>	Valdarno	IGF 891	13.74	6.11	-
<i>L. issiodorensis</i>	Valdarno	IGF891	13.4	6.1	-
<i>L. issiodorensis</i>	Valdarno	IGF893	12.3	5.8	-
<i>L. issiodorensis</i>	Valdarno	IGF893	13.5	5.4	-
<i>L. issiodorensis</i>	Valdarno	IGF896	14.2	6.1	-
<i>L. issiodorensis</i>	Valdarno	IGF898	13.1	6.1	-
<i>L. issiodorensis</i>	Valdarno	V.A.1164	14.4	6.1	-
<i>L. lynx</i>	Extant	8158	13.6	6.3	-
<i>L. lynx</i>	Extant	8234	16.4	7.5	-
<i>L. lynx</i>	Extant	8632	14.1	6.4	-
<i>L. lynx</i>	Extant	8634	14.8	6.7	-
<i>L. lynx</i>	Extant	8692	14.8	6.5	-
<i>L. lynx</i>	Extant	8864	15.7	6.8	-
<i>L. lynx</i>	Extant	"5000426"	14	6.5	-
<i>L. lynx</i>	Extant	C.1250	16.4	6.8	-
<i>L. lynx</i>	Extant	C.147	14.4	6.8	-
<i>L. pardinus</i>	Cau d'en Borràs	MGB-V-6067	13.1	5.67	-
<i>L. pardinus</i>	Cova Toll	MGB-V1261	13.89	5.62	-
<i>L. pardinus</i>	Cova Toll	MGB-V857	13.58	5.71	-
<i>L. pardinus</i>	Cova Toll	MGB-V858	14.19	6.39	-
<i>L. pardinus</i>	Cova Toll	MGB-V860	14.28	5.9	-
<i>L. pardinus</i>	Cova Toll	MGB-V9276	13.79	5.57	-
<i>L. pardinus</i>	Extant	8800	12.4	5.4	-
<i>L. pardinus</i>	Extant	8865	13	5.1	-
<i>L. pardinus</i>	Turó del Moro	MGB-V1374	12.64	5.45	-
<i>L. pardinus</i>	Turó del Moro	MGB-V1374	12.59	5.71	-
<i>L. rufus</i>	Extant	6111	10.8	4.9	-
<i>L. rufus</i>	Extant	7980	11.9	4.5	-
<i>L. rufus</i>	Extant	30995	11.2	5.1	-
<i>L. rufus</i>	Extant	30995	11.8	4.9	-
<i>L. rufus</i>	Extant	B-8	10.6	5.2	-
<i>L. rufus</i>	Extant	B-8	10.7	4	-
<i>L. rufus</i>	Extant	B-8a	10.8	4.7	-
<i>L. rufus</i>	Extant	C.1816	10.2	4.1	-
<i>L. rufus</i>	Extant	C.4118	10.6	4.4	-
<i>L. rufus</i>	Extant	C.573	10.8	5	-
<i>L. rufus</i>	Extant	PED-019-1	10.1	4.9	-
<i>L. rufus</i>	Extant	PED-019-1	10.5	4.6	-
<i>L. rufus</i>	La Brea	Pit 16	12	5.4	-
<i>L. rufus</i>	La Brea	Pit 16	10.8	4.1	-
<i>L. rufus</i>	La Brea	Pit 16 X9077	9.5	4.8	-
<i>L. rufus</i>	La Brea	Pit 16 X-9078	9.74	4.64	-
<i>L. rufus</i>	La Brea	Pit 16 X9080	9.9	4.7	-
<i>L. rufus</i>	La Brea	Pit 16 X-9081	12.4	5.5	-
<i>L. rufus</i>	La Brea	Pit 16 X-9492	10.1	4.4	-
<i>L. rufus</i>	La Brea	Pit 3+4 X-9082	13.38	5.43	-
<i>L. rufus</i>	La Brea	Pit 3+4 X9262	12.3	5.21	-
<i>L. rufus</i>	La Brea	Pit 3+4 X9490	11.8	5.21	-
<i>L. rufus</i>	La Brea	Pit 4 X-9083	11.5	5.4	-
<i>L. rufus</i>	La Brea	X9491	10.9	5.3	-
<i>L. vallesiensis</i>	Batallones	B-2074 (45) left	9.38	3.96	Salesa et al. 2012
<i>L. vallesiensis</i>	Batallones	B-3319 left	9.46	4.06	Salesa et al. 2012
<i>L. vallesiensis</i>	Batallones	B-3319 right	9.11	3.98	Salesa et al. 2012
<i>L. vallesiensis</i>	Batallones	BAT-1'01 D6-65 right	9.28	3.93	Salesa et al. 2012
<i>L. vallesiensis</i>	Batallones	BAT-1'02 D6-57 left	9.41	3.94	Salesa et al. 2012
<i>L. vallesiensis</i>	Batallones	BAT-1'03 D4-265 left	10.48	4.12	Salesa et al. 2012
<i>L. vallesiensis</i>	Batallones	BAT-1'03 D6-37 right	9.39	3.94	Salesa et al. 2012

**Table S2** Resuming table of mean values of upper and lower teeth of *Plioverropros* used in the log-ratio analysis of Figure 4.

Species	p3 L	p3 W	p4 L	p4 W	m1 L	m1 W	m2 L	m2 W	p3 L	p3 W	p L	p4 W	m1 L	m1 W	m2 L	m2 W	Reference
<i>P. faventinus</i>	9.0	5.7	11.5	8.0	7.2	9.8	5.6	7.5	9.0	4.1	9.8	4.7	11.1	5.3	7.4	5.3	Present work
<i>P. gaudryi</i>			10.0	6.4									8.0	3.8			De Beaumont and Mein 1972
<i>P. gervaisi</i>			9.9	5.9									8.3	4.0	4.6	4.2	De Beaumont and Mein 1972
<i>P. guerini</i>	8.6	4.1	13.4	7.4	6.7	10.7	4.8	8.0	7.8	3.4	9.0	3.9	11.6	5.2	6.3	4.5	Alcalà 1994
<i>P. orbigny</i>	6.9	3.6	9.6	6.2	5.9	7.4	4.3	5.8	6.9	3.0	7.7	3.7	9.0	4.3	5.3	3.9	Koufos 2011
<i>P. cf. orbigny</i>	6.4	3.3	9.1	5.8	5.6	7.4	4.2	5.5									Sen and Sarraç 2018

**Table S3** Resuming table of measurements used in the analysis of *Lycyaena chaeretis* from Cava Monticino.

Species	Site	Cat. Number	m1 L	m1 W	References
<i>Hyaenictis aff. almerai</i>	Ronda Oest Sabadell D	IPS62078	25.90	13.10	-
<i>Hyaenictis graeca</i>	Pikermi	MNHN.F.PIK3275	26.6	11.3	-
<i>Hyaenictis hendeyi</i>	Langebaanweg	SAM PQ-L20990	26.9	12.3	Werdelin et al. 1994
<i>Hyaenictis hendeyi</i>	Langebaanweg	SAM PQ-L21000	25	11.7	Werdelin et al. 1994
<i>Hyaenictis hendeyi</i>	Langebaanweg	SAM PQ-L40224	24.4	12.1	Werdelin et al. 1994
<i>Hyaenictis hendeyi?</i>	Langebaanweg	SAM PQ-L21788	25.4	12	Werdelin et al. 1994
<i>Hyaenictis hendeyi?</i>	Langebaanweg	SAM PQ-L21792	26.2	11.8	Werdelin et al. 1994
<i>Hyaenictitherium wongii</i>	Akkasadagi	AKK-115	20.20	9.50	De Bonis and Koufos 1991
<i>Hyaenictitherium wongii</i>	Greece	LGPU-T-RZ1-2	20	9	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	LGPU-T-VTK-37b	19.4	9	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	MNHNP-PIK-3010	18.2	9.1	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	MNHNP-PIK-3377	18.8	8.9	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	MNHNP-PIK-3378	18.6	9.2	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	MNHNP-SLQ-930	21	9	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	NHMA-MTLA-2	18.2	9	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	NHMA-MTLA-266	20.7	9.8	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	NHMA-MTLA-468	21.8	9.5	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	NHMA-MTLB-1	20.5	9.3	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	NHMA-SAM-	20	8.1	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	NHMA-SAM-	18.3	9.2	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	NHMA-SAM-A.	20	8.5	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	PIUW-SAM	18.6	8.9	Koufos 2021
<i>Hyaenictitherium wongii</i>	Greece	PIUW-SAM-1889-V,3-3	20.2	9.3	Koufos 2021
<i>Hyaenictitherium wongii</i>	Höwenegg	Hö 1040	19.90	9.10	De Beaumont 1986
<i>Lycyaena aff. chaeretis</i>	Fuentiduena	SB	24.50	10.40	-
<i>Lycyaena cf. chaeretis</i>	Cava Monticino	MSF 87	25.80	12.10	-
<i>Lycyaena chaeretis</i>	Cerro de la Gariata	CD-921	25.7	12.3	Alcalà 1994
<i>Lycyaena chaeretis</i>	Pikermi	BM M8979	21.70	10.30	Koufos 2021
<i>Lycyaena chaeretis</i>	Pikermi		23.70	9.70	Koufos 2021
<i>Lycyaena chaeretis</i>	Samos	AMNH 100070	23.70	10.10	Koufos 2021
<i>Lycyaena chaeretis</i>	Samos	AMNH 100073	22.10	9.20	Koufos 2021
<i>Lycyaena chaeretis</i>	Samos	Lausanne 273	22.00	8.50	Koufos 2021
<i>Lycyaena chaeretis</i>	Samos	ML 273	21.80	9.70	Koufos 2021
<i>Lycyaena crusafonti</i>	Bled Douarah	T1173	24.00	11.30	-
<i>Lycyaena crusafonti</i>	Bled Douarah	T3292	24.60	12.40	-
<i>Lycyaena crusafonti</i>	Bled Douarah, Loc. 17	T-1173	24.00	11.30	-
<i>Lycyaena crusafonti</i>	Bled Douarah, Loc. 17	T-3292	24.60	12.40	-
<i>Lycyaena dubia</i>	Chao Chia Kou	F:AM 56-L560	23.10	10.00	-
<i>Lycyaena dubia</i>	Hsiao Kou Shan	F:AM 38-B296	22.40	9.00	-
<i>Lycyaena dubia</i>	Nan Ho	F:AM 69-B848	23.00	9.20	-
<i>Lycyaena macrostoma</i>	Dhok Pathan	D136	23.00	10.90	-
<i>Lycyaena rhomboideae</i>	Pestlorinc	Hungary	27.3	13.9	Werdelin 1999
<i>Thalassictis certa</i>	La Grive Saint Alban	MHNL LGr 1330	17.80	8.90	Peigné 2016
<i>Thalassictis montadai</i>	Çandır	EUNHM PV-2675	23.94	9.22	Peigné 2016
<i>Thalassictis montadai</i>	Hostalets de Pierola	IPS-2074	20.50	9.00	Peigné 2016
<i>Thalassictis montadai</i>	Przeworno 2	PAS MF/1992/91	20.30	10.00	Peigné 2016
<i>Thalassictis montadai</i>	San Quirze		20.00	10.00	Peigné 2016
<i>Thalassictis montadai</i>	Sinap	AS.92.463 & 464	23.10	10.30	Peigné 2016
<i>Thalassictis montadai</i>	Yeni Eskihisa	BSP1967 VI 772	23.30	10.15	Peigné 2016
<i>Thalassictis proava</i>	Chinji	GSI D 126	15.60	8.10	Peigné 2016
<i>Thalassictis proava</i>	Chinji	GSI D 233	16.50	7.80	Peigné 2016
<i>Thalassictis robusta</i>	Don-Durkheim	SMF DD 3495	16.00	7.00	Peigné 2016
<i>Thalassictis robusta</i>	Höwenegg	Hö 27	17.20	7.80	Peigné 2016
<i>Thalassictis robusta</i>	Kishinev		17.40	8.00	Peigné 2016
<i>Thalassictis spelaea</i>	Akkasadagi	AKK-11	18.60	8.80	De Bonis 2005
<i>Thalassictis spelaea</i>	Gritsev		17.29	8.52	Peigné 2016

**Table S4** Resuming table of mean values of m1 length and width of *Eucyon* spp. used in the analysis of *Eucyon monticinensis* from Cava Monticino.

Species	Site	Cat. Number	m1 L	m1 W
<i>E. adoxus</i>	La Calera	FM 144223	17.5	6.5
<i>E. adoxus</i>	La Calera	FM 144224	18	7.2
<i>E. adoxus</i>	Roussillon	RSS 45	18	7.6
<i>E. cipio</i>	Los Mansuetos		21.3	8
<i>E. davisii</i>	Bird Bone Quarry	F:AM 76204	17.2	7.0
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63001	15.9	6.5
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63003	16.6	6.1
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63008	16.9	6.3
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63009a	15.5	6.4
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63016b	16.2	6.7
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63018	17.4	6.5
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63019	17.7	7.1
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63023	17.3	7.2
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63026	17.3	6.6
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63028	17.0	6.6
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63028a	17.2	6.6
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63029	17.2	7.5
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63031	17.3	6.6
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63038	17.3	7.2
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63041	17.3	7.3
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63042	17.7	7.0
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63043	17.9	7.1
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63045	18.1	7.5
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63046	19.4	7.2
<i>E. davisii</i>	Bird Bone Quarry	F:AM 63056	19.1	7.5
<i>E. davisii</i>	Bird Bone Quarry	F:AM 72591	17.0	7.3
<i>E. davisii</i>	Bird Bone Quarry	F:AM 72592	18.5	7.6
<i>E. davisii</i>	Bird Bone Quarry	F:AM 72596	18.0	7.7
<i>E. davisii</i>	Chamita fm.	F:AM 27485	17.4	7.4
<i>E. davisii</i>	Chamita fm.	F:AM 49296	17.3	6.8
<i>E. davisii</i>	Clay Bank Quarry	F:AM 63009B	15.8	5.8
<i>E. davisii</i>	Edson Local Fauna	F:AM 49466	17.8	7.5
<i>E. davisii</i>	Edson Local Fauna	F:AM 49456	17.2	6.8
<i>E. davisii</i>	Edson Local Fauna	F:AM 49462	16.9	6.5
<i>E. davisii</i>	Edson Local Fauna	F:AM 49465	17.5	7.5
<i>E. davisii</i>	Golgotha Water M.P.	F:AM 49294a	16.5	6.3
<i>E. davisii</i>	Gray's Ranch	F:AM 63043	18.7	7.1
<i>E. davisii</i>	Little Valley	UO 26742	17.8	6.5
<i>E. davisii</i>	Miami quarry	F:AM 23353	16.9	6.5
<i>E. davisii</i>	NE Oregon	UOMNH F-3241	16.2	6.5
<i>E. davisii</i>	Old Cabin quarry	F:AM 72656	15.7	6.1
<i>E. davisii</i>	Old Cabin quarry	F:AM 75810	16.4	6.2
<i>E. davisii</i>	Old Cabin quarry	F:AM 75811	16.8	6.0
<i>E. davisii</i>	Old Cabin quarry	F:AM 75818	19.0	7.0
<i>E. davisii</i>	Optima Local Fauna	F:AM 62932	15.8	6.2
<i>E. davisii</i>	Rentfro Pit	F:AM 62981	18.9	7.1
<i>E. davisii</i>	Yushe Basin	F:AM 97031	17.1	6.8
<i>E. davisii</i>	Yushe Basin	F:AM 97058	17.5	6.8
<i>E. davisii</i>	Yushe Basin	F:AM 97060	16.9	6.9
<i>E. davisii</i>	Yushe Basin	THP 22757	18.0	
<i>E. debonisi</i>	Venta del Moro	MNCN-VM 50	16.7	6.6
<i>E. debonisi</i>	Venta del Moro	MNCN-VM 51	16.9	6.6
<i>E. debonisi</i>	Venta del Moro	MGUV VV-14601	16.2	6.6
<i>E. debonisi</i>	Venta del Moro	MGUV 14753	14.7	5.8
<i>E. debonisi</i>	Venta del Moro	MGUV 14782	15	5.8
<i>E. debonisi</i>	Venta del Moro	MGUV VV-14788	15.4	6.6
<i>E. debonisi</i>	Venta del Moro	MGUV 14791	16	6.6
<i>E. debonisi</i>	Venta del Moro	MGUV VV-14793	17.2	6.5
<i>E. debonisi</i>	Venta del Moro	MGUV VV-15125	16	6.3
<i>E. debonisi</i>	Venta del Moro	MGUV 18473	16.6	6.3
<i>E. debonisi</i>	Venta del Moro	MGUV 18474	16.9	6.4
<i>E. debonisi</i>	Venta del Moro	MNCN71958	15	
<i>E. debonisi</i>	Venta del Moro	MNCN71959	16.9	6.7
<i>E. debonisi</i>	Venta del Moro	MNCN71960	16.7	6.6
<i>E. ferox</i>	Bird bone quarry	F:AM 63035	19.9	8.1
<i>E. ferox</i>	Bird bone quarry	F:AM 63060	20.4	7.7
<i>E. ferox</i>	Bird bone quarry	F:AM 72606	19	7.8
<i>E. ferox</i>	Golgotha Water Mill	F:AM 49298	19.7	8.1
<i>E. ferox</i>	Gray's Ranch quarry	F:AM 63061	19.6	8
<i>E. ferox</i>	Leyden Locality	F:AM 27388	19.3	7.7
<i>E. ferox</i>	Rancho San Martin	FM 144232	18.6	7.4
<i>E. ferox</i>	Redington quarry	F:AM 75819	19.6	8.1
<i>E. ferox</i>	Redington quarry	F:AM 75821	22.8	9.4
<i>E. ferox</i>	Redington quarry	F:AM 75822	23.7	9.4
<i>E. ferox</i>	Redington quarry	F:AM 75848	21.8	8.6
<i>E. kuruksaensis</i>	Kuruksay	AMNH 131867	19.3	7.5
<i>E. marinae</i>	Muhur-Erig	FM 1994-1	18.7	7.98
<i>E. minor</i>	Beregovaja	PIN 2975/7	19.3	7

<i>E. minor</i>	Beregovaja	PIN SN	19.6	7.2
<i>E. minor</i>	Nihewan basin	10199	17.8	7.5
<i>E. minor</i>	Nihewan basin	THP 18731	17.4	6.9
<i>E. minor</i>	Shamar	GIN K970/15	16.7	7
<i>E. minor</i>	Shamar	PIN 3111/329	19.5	7.5
<i>E. monticinensis</i>	Cava Monticino	BRS 27/21	18.8	7.5
<i>E. monticinensis</i>	Cava Monticino	BRS 27/4	17.7	7.22
<i>E. monticinensis</i>	Cava Monticino	MSF 458	16.6	6.8
<i>E. odessanus</i>	Alatini	ALA-1	16.1	6.33
<i>E. odessanus</i>	Odessa Catacombs	AMNH 131865	18.4	6.8
<i>E. odessanus</i>	Odessa Catacombs	AMNH 131866	16.5	6.5
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/160	17.2	6.5
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/162	17.2	6.5
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/163	18.4	7
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/164	17.8	7
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/165	18.7	7.2
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/166	17	6.6
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/167	19.5	7
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/168	18	7
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/169	17.3	6.7
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/171	15.8	6.2
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/172	16.1	6.3
<i>E. odessanus</i>	Odessa Catacombs	PIN 390/177	17.3	6.3
<i>E. zhoui</i>	Yushe Basin	F:AM 143864	17.4	7.3
<i>E. zhoui</i>	Yushe Basin	F:AM 97048	17.6	7.1
<i>E. zhoui</i>	Yushe Basin	THP 10199	17.8	7.5

### **Additional References**

- Baryshnikov GF. 2011. Pleistocene Felidae (Mammalia, Carnivora) from the Kudaro paleolithic cave sites in the Caucasus. *Proc Zool Inst Russ Acad Sci.* 315:197-226.
- De Beaumont C, Mein P. 1972. Recherches sur le genre *Plioviverrops* Kretzoi (Carnivora, Hyaenidae). *Arch Sci.* 25:383-394.
- De Bonis L. 2005. Carnivora (Mammalia) from the Late Miocene of Akkasdagı, Turkey. *Geodiversitas.* 27: 567-589.
- Geraads D. 2016. Pleistocene Carnivora (Mammalia) from Tighennif (Ternifine), Algeria. *Geobios.* 49:445-58.
- Peigné S. 2016. Carnivora. in Sen S. editor. Late Miocene mammal locality of Küçükçekmece, European Turkey. *Geodiversitas.* 38:197–224.