

SUPPLEMENTARY DATA 1

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

MARIA RIOS,^{*} ISRAEL M. SÁNCHEZ, and JORGE MORALES

Departamento de Paleobiología, Museo Nacional de Ciencias Naturales-CSIC, C/ José

Gutiérrez Abascal, 2, 28006 Madrid, Spain, maria.rios.iba@mncn.csic.es;

micromeryx@gmail.com; mcnm166@mncn.csic.es

^{*}Corresponding author.

SUPPLEMENTARY DATA 1. Dimensions (in mm) of the dentition and postcranial skeleton of *Decennatherium pachecoi* from Los Valles de Fuentidueña, Nombrevilla, Relea, Pedrajas de San Esteban (Crusafont, 1952, Montoya and Morales, 1991), Masia del Barbo, Masia de La Roma (Alcalá, 1994) and Campisabalos (Crusafont, 1966). **Abbreviations:** **LVF**, Los Valles de Fuentidueña; **MB**, Masia del Barbo; **MR**, Masia de la Roma; **NOM**, Nombrevilla; **PEDR**, Pedrajas de San Esteban; **REL**, Relea.

TABLE 1S. Dimensions of the deciduous dentition of *D. pachecoi* in mm.

Locality	Specimen nº/Reference	Length	Width
d2			
NOM	Crusafont, 1952	24.3	13.3
NOM	Crusafont, 1952	20.5	12.5
d3			
LVF	MNCN-43450	23.69	11.99
LVF	MNCN-43451		12.27
d4			
LVF	MNCN-43450	38.09	15.4
LVF	MNCN-43451	24.35	18.33
LVF	MNCN-32052	37.24	

TABLE 2S. Dimensions of the lower permanent dentition of *D. pachecoi* in mm.

Locality	Specimen nº/Reference	Length	Width
p2			
MB	Alcalá, 1994	25	13.3
NOM	Crusafont, 1952	27.5	13.7
NOM	Crusafont, 1952	27	14
NOM	Crusafont, 1952	26.7	14.4
NOM	Crusafont, 1952	25.8	15
NOM	Crusafont, 1952	27.1	16.4
NOM	Crusafont, 1952	26.4	13.9
NOM	Crusafont, 1952	24	13.2
NOM	Crusafont, 1952	26.1	14.6

LVF	MNCN-43452	27.19	14.38
LVF	MNCN-43453	24.24	13
LVF	MNCN-43454	23.39	12.92
LVF	MNCN-43455	24.17	15.21
LVF	MNCN-43456		13.66
LVF	MNCN-43457	25.51	
LVF	MNCN-43458		13.78
LVF	MNCN-43459		14.71
LVF	MNCN-43460	22.52	14.21
LVF	MNCN-32288	23.44	13.81
p3			
LVF	MNCN-43463	28.15	18.29
LVF	MNCN-43465	28.62	17.23
NOM	Crusafont, 1952	28.7	17.5
LVF	MNCN-43467	28.86	17.27
LVF	Crusafont, 1952	29	16.5
LVF	MNCN-43462	29.14	16.36
LVF	MNCN-43464	29.33	17.2
LVF	MNCN-43468	29.58	17.38
NOM	Crusafont, 1952	30	18.5
NOM	Crusafont, 1952	30	17.1
LVF	MNCN-43466	30.06	17.23
LVF	MNCN-43461	30.68	18.2
NOM	Crusafont, 1952	31.2	18
NOM	Crusafont, 1952	31.5	20
NOM	Crusafont, 1952	31.6	21.3
p4			
MB	Alcalá, 1994	28.1	17.5
NOM	Crusafont, 1952	32.7	21.7

NOM	Crusafont, 1952	32.2	22.5
NOM	Crusafont, 1952	33.5	22.2
NOM	Crusafont, 1952	32.5	22.5
NOM	Crusafont, 1952	35	21
NOM	Crusafont, 1952	32	20
NOM	Crusafont, 1952	34	21
NOM	Crusafont, 1952	33.2	23.7
LVF	MNCN-43448	27.73	19.19
LVF	MNCN-43449		25.05
LVF	MNCN-43469	33.5	24.52
m1			
NOM	Crusafont, 1952	34.5	27
NOM	Crusafont, 1952	37.7	26.1
NOM	Crusafont, 1952	37.5	
NOM	Crusafont, 1952	38	27
NOM	Crusafont, 1952	36.5	25
NOM	Crusafont, 1952	38	25
NOM	Crusafont, 1952	38.4	28.5
LVF	Crusafont, 1952	38.6	24.6
LVF	MNCN-43448	29.07	
LVF	MNCN-43449	32.41	25.85
LVF	MNCN-43450	32.16	
LVF	MNCN-43476	37.28	24.39
LVF	MNCN-43477	34.84	20.87
LVF	MNCN-43478	36.4	24.28
LVF	MNCN-43479	36.15	24.08
LVF	MNCN-43480	35.71	25.19
m2			
NOM	Crusafont, 1952	41.2	29
NOM	Crusafont, 1952	42.8	27.8

NOM	Crusafont, 1952	42.5	28.9
NOM	Crusafont, 1952	40	28
LVF	MNCN-43449	38.7	26.94
LVF	MNCN-43481	40.49	27.41
LVF	MNCN-43482	38.68	27.17
m3			
NOM	Crusafont, 1952	56.6	28.7
REL	Crusafont, 1952	47.5	24
NOM	Crusafont, 1952	52.5	26.2
NOM	Crusafont, 1952	50	24.3
NOM	Crusafont, 1952	55	26.7
NOM	Crusafont, 1952	56	27
NOM	Crusafont, 1952	54	25.5
NOM	Crusafont, 1952	56	25
NOM	Crusafont, 1952	54.05	25.77
LVF	MNCN-43483	56.49	22.09
LVF	MNCN-43449		

TABLE 3S. Dimensions of the upper permanent dentition of *D. pachecoi* in mm.

Locality	Specimen nº/Reference	Length	Width
P4			
NOM	Crusafont, 1952	27.5	
NOM	Crusafont, 1952	30	34.2
REL	Crusafont, 1952	26.5	33.3
PEDR	Crusafont, 1952	27	34
NOM	Crusafont, 1952	25	
LVF	MNCN-43489	25.51	33.15
M1			
REL	Crusafont, 1952	40	37

REL	Crusafont, 1952	40	37
NOM	Crusafont, 1952	39	
PEDR	Crusafont, 1952	36	
LVF	MNCN-43490	33.45	33.71
M2			
NOM	Crusafont, 1952	45	41.7
NOM	Crusafont, 1952	43	41.3
REL	Crusafont, 1952	40	38
PEDR	Crusafont, 1952	37	
LVF	MNCN-43490	36.23	33.97
M3			
NOM	Crusafont, 1952	43.5	39.4
NOM	Crusafont, 1952	41	37.2
NOM	Crusafont, 1952	40	36.5
PEDR	Crusafont, 1952	39	
LVF	MNCN-43496	37.33	35.51

TABLE 4S. Dimensions of the canines of *D. pachecoi* in mm.

Locality	Specimen n°/Reference	Reference	Length	Width
NOM	Crusafont, 1952		22	25
NOM	Crusafont, 1952		23	25
NOM	Crusafont, 1952		17	28
NOM	Crusafont, 1952		21	27
NOM	Crusafont, 1952		21.2	22
PEDR	Crusafont, 1952		19	23

TABLE 5S. Dimensions of the incisors of *D. pachecoi* in mm. **Abbreviations:** **max**, maximum value; **min**, minimum value; **N**, number of specimens; **SD**, standard deviation.

Locality	Specimen/Reference n°	Length	Width
NOM	Crusafont, 1952	14.8	23.5

NOM	Crusafont, 1952	14.1	23.3
PEDR	Crusafont, 1952		20
NOM	Crusafont, 1952	17	28
NOM	Crusafont, 1952	16.5	26.5
NOM	Crusafont, 1952	15.8	27.1
NOM	Crusafont, 1952	16.9	27.6
NOM	Crusafont, 1952	16.4	27.7
NOM	Crusafont, 1952	17	26.5
PEDR	Crusafont, 1952	14.8	25
NOM	Crusafont, 1952	20	27
NOM	Crusafont, 1952	17.3	28.7
NOM	Crusafont, 1952	18.5	28.6
NOM	Crusafont, 1952	18.2	27.9
NOM	Crusafont, 1952	17.3	29.5
NOM	Crusafont, 1952	19	30
NOM	Crusafont, 1952	17.5	29
PEDR	Crusafont, 1952	17	25
NOM	Crusafont, 1952	15.5	22.6

TABLE 6S. Dimensions of the scapula of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **DT**, transversal diameter; **Glen. Cav**, glenoid cavity.

Specimen n°	Min. neck APD	Distal DT	Distal APD	Glen. cav. APD
MNCN- 30783	90.67	57.37	127.21	86.54

TABLE 7S. Dimensions of the humerus of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter.

Specimen n°	Total length	Functional length	Diaph. TD	Diaph. APD	Distal TD	Distal APD	Proximal TD	Proximal APD	Trochlea APD
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MNCN-30762			53.69	55.74	103.42	89.98			55.07
MNCN-30764					112.49	70.79			50.08
MNCN-30765					99.91	60.16			42.72
MNCN-30774	405.37	379.58	61.49	64.39	105.66	106.79	127.64	139.38	51.59
MNCN-30763			49.34	59.65	98.05	90.22			46.13
MNCN-43564									46.1
MNCN-30766			52.46	63.78					

TABLE 8S Dimensions of the radius-ulna of *D. pachecoi* in mm. **Abbreviations:** **Anc. Proc.**, anconeal process; **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter; **Olec**, olecranon.

Specimen n°	Total Length	Diaph. TD	Diaph. APD	Distal TD	Distal APD	Proximal TD	Proximal APD	Olec. APD	Olec. Min. APD	Olec. Length	Anc. Proc. APD
MNCN-30784		55.93	38.32			93.29	53.36				
MNCN-43419								77.6	86.18	134	104.26
MNCN-43418		54.23	42.78								
MNCN-43417		51.88	38.71	93.07	57.27						

TABLE 9S. Dimensions of the carpals of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **DT**, transversal diameter.

Scaphoid			
Specimen n°	Anterior Height	Proximal TD	APD
MNCN-42623	35.15	29.56	55.37

MNCN-42621	36.83		
MNCN-42620	37.72	28.87	58.82
MNCN-42613	36.29	23.48	50.32
MNCN-42612	37.2	28.17	56.9
MNCN-42610	37.67	28.94	54.24
MNCN-42609	38.37	29.96	59.88
MNCN-42608	41.78	34.48	59.38
MNCN-32355	39.56	28.76	60.72
MNCN-42624	37.95	31.16	55.76
MNCN-42622	33.99		48.27
MNCN-42618	37.08	27.68	55.19
MNCN-42617	34.99	31.41	59.03
MNCN-42616	36.52	26.44	55.8
MNCN-42615	38.55	26.54	53.24
MNCN-42614	37.34	30.79	
MNCN-42611	39.78	26.24	57.9
MNCN-42619	37.78	22.33	53.64
Semilunate			
Specimen n°	Anterior Height	Proximal TD	Distal TD
MNCN-54854	35.76	30.12	
MNCN-43581	36.83	31.5	28.24
MNCN-42606	38.28	37.13	31.41
MNCN-42605	36.98	36.66	23.5
MNCN-42604	35.15	33.66	25.25
MNCN-42603	38.83	34.69	
MNCN-42601	38.01	28.45	30.28
MNCN-42600	36.47	34.13	
MNCN-43562	35.66	31.91	27.95

MNCN-42607	40.15	37.66	31.85
MNCN-42602	39.94	35.92	28.75
MNCN-42599	37.35	34.61	
MNCN-42598	36.85	33.07	
MNCN-42597	34.69	33.4	28.95
MNCN-42596	35.88	34.38	26.76
Pyramidal			
Specimen nº	Anterior Height	Maximum Height	TD
MNCN-42638	39.13	50.08	33.39
MNCN-42635	40.46		36.62
MNCN-42633	39.97	46.54	30.49
MNCN-42630	38.21	51.64	31.02
MNCN-42629	41.13	51.99	34.58
MNCN-42627	41.2	50.66	27.18
MNCN-32077	38.86	53.71	35.96
MNCN-43563	38.74	53.39	33.32
MNCN-42637	39.61	50.4	32.81
MNCN-42636	45.69		42.8
MNCN-42634	38.28		34.18
MNCN-42631	38.3	49.93	32.59
MNCN-42628	36.61	50.86	34.44
MNCN-42626	39.72	55.28	25.56
MNCN-42625	40.17	55.07	32.9
MNCN-42632	34.94	46.64	21.12
Pisiform			
Specimen nº	Posterior Height	APD	
MNCN-42734	32.25	39.88	

MNCN-42732	28.17	36.31	
MNCN-42731	30.03	40	
MNCN-54851	29.74	38.32	
MNCN-42733	29.96	35.19	
Magnotrapezoid			
Specimen nº	Anterior TD	Posterior TD	APD
MNCN-54852	20.09		
MNCN-43587		39.71	53.15
MNCN-42649	48.45	42.11	52.26
MNCN-42647	45.21	39.28	47.81
MNCN-42645	46.02	40.14	49.27
MNCN-42644	43.24		49.2
MNCN-42643	48.83	43.09	49.84
MNCN-42639	50.75	43.15	56.19
MNCN-43585	47.99	36.22	45.98
MNCN-43586	47.25	40.39	51.24
MNCN-42648	48.65	42.85	53.4
MNCN-42646	45.88	36.45	47.84
MNCN-42642			48.5
MNCN-42641	48.77		
MNCN-42640	48.95	39.94	51.27
MNCN-32290			45.42
Unciform			
Specimen nº	Anterior Height	Semilunate Facet TD	Pyramidal Facet TD
MNCN-43569	27.2	11.49	23.11
MNCN-32294	29.21	11.06	22.18
MNCN-42591	27.69	12.9	23.44

MNCN-42590	26.91	13.73	23.47
MNCN-42588	27.46	13.2	25.24
MNCN-42586	28.24	14.21	27.26
MNCN-42585	26.35	12.98	24.22
MNCN-43770	27.29	12.08	22.61
MNCN-32289	29.35	12.71	24.1
MNCN-42589	27.83	12.15	24.6
MNCN-42587	28.28	13.3	28.35
MNCN-42584	27.08	13.12	26.09
MNCN-42583	27.42	10.89	27.57
MNCN-42582	28.72	12.3	29.22

TABLE 10S. Dimensions of the metacarpal III-IV of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter.

Localit y	Specime n n° /Referen ce	Total Lengt h	Proxim al TD	Proxim al APD	Diap h. TD	Diap h. APD	Dist al TD	Dist al APD	Unifor m facet TD	Magnotrapez oid facet TD
LVF	MNCN- 42769	391	73.32	50.23	36.17	40.14	73.7 8	45.3 1	25.72	44.64
NOM	Cruafont, 1952		90	60	44.5	53				

TABLE 11S. Dimensions of the femur of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter; **Troc**, trochlea.

Specimen n°	Total length	Distal TD	Distal APD
MNCN-42776	82.09	81.15	32.71
MNCN-42777			

TABLE 12S. Dimensions of the tibia of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter; **Fun**, functional.

Specimen	Total	Diaph.	Diaph.	Distal	Distal	Proximal	Proximal	Fun. Distal	Fun. Distal
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n°	length	TD	APD	TD	APD	TD	APD	TD	APD
MNCN-42772		52.07	39.2		61.51			53.84	47.81
MNCN-42773		52.69	40.9	78.92	60.65			55.88	45.54
MNCN-42775				72.02	58.75			55.11	46.8
MNCN-30785		53.91	42.97	80.35	62.97			57.74	50.56
MNCN-42774				81.73	63.35			56.08	49.08
MNCN-30775	497.78	59.03	37.49	82.74	65.47	121.68	126.89	57.38	52.47

TABLE 13S. Dimensions of the tarsals of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter; **s**, sustentaculum; **t.c**, tuber calcis.

Malleolar					
Specimen n°	Maximum Height	APD	TD	Posterior Height	
MNCN-43566	33.67	44.81	21.06	26.67	
MNCN-32353	29.1	42.38	19.36	26	
MNCN-42592	31.7	45.36	21.29	30.61	
MNCN-42577	30.08	45.93	21.33	27.86	
MNCN-42575		39.61	18.36	26.15	
MNCN-43565	29.71	43.29	20.57	26.3	24.43
MNCN-32352	32.35	42.1	19.89	25.7	
MNCN-32354	31.06	43.49	19.01	25.94	
MNCN-	32.19	44.24	20.02	28.53	

42595								
MNCN-42594	29.78	44.59	22.32	27.79				
MNCN-42593	28.39	42.94	22.98	28.96				
MNCN-42580		44.05	19.15	29.26				
MNCN-42579		42.13	21.37	27.53				
MNCN-42578	29.17	45.69	20.59	29.18				
MNCN-42576	29.19	43.86	21.06	27.5				
Calcaneus								
Specimen nº	Total Length	t.c. TD	t.c. APD	Diaph. TD	Diaph. APD	s. Length	s. TD	Anterior Articulation APD
MNCN-43631		39.42	44.72	23.84	45.75	114.66	44.31	
MNCN-42741	179.36	38.47	46.92	23.69	46.95	120.63	57.27	70.41
MNCN-42742				23.79	46.87		54.59	65.63
MNCN-43630	184.41	45.21	53.36	30.24	49.35	124.83	50.72	75.92
MNCN-42736	147.76	33.09	36.95	26.91	45.84	87.1	52.39	66.41
MNCN-42737	166.36	33.85		25.99	44.9	114.71	61.77	69.51
MNCN-42738	176.2	39.94	48.6	26.28	47.86	119.31	57.25	72.29
MNCN-42739		33.03	35.17	26.3	42.45	93.25	53.87	
MNCN-42740		32.41	36.8	23.16	45.63	109.09	59.13	
MNCN-42743				23.85	44.89		60.2	

MNCN-43632		40.39	44.84		
MNCN-43633		43.49	48.93		
Astragalus					
Specimen n°/Reference	Medial Length	Lateral Length	Medial APD	Lateral APD	Distal DT
MNCN-42562					
MNCN-43556	78.96		51.67	46.78	52.56
MNCN-43554	74.09	87.9	52.94	51.4	55.27
MNCN-43553	72.85	84.04	46.41	49.82	55.12
MNCN-43552	79.54	81.11	43.77	45.03	51.55
MNCN-43546	83.37	90.95	52.31	54.03	54.8
MNCN-43545	77.73		41.88		49.23
MNCN-43544	72.41	82.08	48.51	47.47	51.44
MNCN-43543	73.88	79.54			
MNCN-42564	77.05	85.62	48.87	47.84	54.01
MNCN-32716					
MNCN-32068	80.63	88.1	44.75	47.11	50.67
MNCN-43558	76.72	86.29	45.97	44.14	49.47
MNCN-43557	71.95	80.71	40.42		50.44

MNCN-43555		80.55		48.31			
MNCN-43551	77.59	81.47	47.88	46.32	55.4		
MNCN-43550	78.36	85.94	44.3	45.6	52.51		
MNCN-43549	75.74	85.28	47.81	44.24	53.45		
MNCN-43548	77.88	79.39	40.89	36.37	46.29		
MNCN-43547	78.56	86.21	44.82	45.59	51.41		
MNCN-42563	76.01	85.21	48.52	44.35	51.12		
MNCN-42561	75.53	84.57	46.15	43.57	51.31		
MNCN-42559	80.06	87.4	48.57	50.33	54.59		
Crusafont, 1966		90.5			66		
Crusafont, 1952		86			57		
Crusafont, 1952		91			60		
Crusafont, 1952		89			60		
Crusafont, 1952					59.7		
Crusafont, 1952		86.5			56.5		
Crusafont, 1952		92			59.5		
Crusafont, 1952		92					
Navicular-cuboid							
Specimen nº	TD	APD	Cuboid Anterior	Navicular Anterior	Total Anterior	Posterior Height	Astragalus Articular

			r Height	Height	Height		Facet TD
MNCN-42658	65.67		29.13	19.98	36.53		51.28
MNCN-42657	64.71	71.08	34.81	21.73	34.51	54.68	54.15
MNCN-42652	67.75	71.95	32.79	20.51	39.46	48.01	54.59
MNCN-42735			29.63				
MNCN-32715	63.89	62.81	30.22	21.4	40.2	42.7	
MNCN-42659		71		22.04		52.13	
MNCN-42656	73.81	79.88	34.36	23.85	43.2	55.64	54.47
MNCN-42655	67.4		31.21	20.99	38.11	53.41	54.45
MNCN-42654	66.17		31.85	22.26	37.4		51.19
MNCN-42653	70.21		35.27	23.65	44.08		54.75
MNCN-42651	74.05	76.04	35.73	23.23	42.91		57.31
MNCN-42650	70.17	64.7	29.24	20.14	38.73	56.29	54.89
Ectomesocneiform							
Specimen nº	Anterior Height	TD	APD				
MNCN-43603	16.8	30.55	50.42				
MNCN-43604	13.9	24.91	42.76				
MNCN-32304	17.65	27.76	43.78				
MNCN-42574	14.49	28.29	43.06				

MNCN-42573	15.74	29.46	49.73
MNCN-42572	17.35	29.82	48.11
MNCN-42570	18.3	29.94	49.76
MNCN-42567	15.38	26.95	
MNCN-42566	16.7	28.35	45.77
MNCN-42565	15.2	29.08	46.69
MNCN-42571	16.64	27.78	44.59
MNCN-42569	16.58	28.95	46.83
MNCN-42568	16.9	30.58	47.51

TABLE 14S. Dimensions of the metatarsal III-IV of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter; **Fun**, functional.

Locality	Specimen n°/Reference	Total Length	Diaph. TD	Diaph. APD	Distal TD	Distal APD	Proximal TD	Proximal APD
LVF	MNCN-42764	427.5	35.35	40.64	66.39	42.29	60.84	63.88
LVF	MNCN-42765	406.14	42.46	38.36	76.92	47.54	74.12	66.36
LVF	MNCN-42771		38.4	39.27		43.79		
LVF	MNCN-42778		34.94	42.9			59.68	57.65
LVF	MNCN-42770		36.17	46.43				56.53
LVF	MNCN-42766		36.59	38.57				54.73
LVF	MNCN-42767		35.88	38.57			57.42	60.49
LVF	MNCN-42768		33.38	36.22			59.36	62.36
REL	Crusafont, 1952		40	47			66	67
REL	Crusafont, 1952						59	60.5

TABLE 15S. Dimensions of the phalanges of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **Diaph**, diaphysis; **DT**, transversal diameter; **Fun**, functional.

First phalanx (Proximal)								
Locality	Specimen n°/Reference	Total Length	Proximal TD	Proximal APD	Distal TD	Distal APD	Diaph. TD	Diaph. APD
MR	MPUZ- MLR-1	95	40	42.1	34.9	30.4	40	31.1
LVF	MNCN- 54849		34.68					
LVF	MNCN- 32080							
LVF	MNCN- 32079							
LVF	MNCN- 36102	91.37	37.62	43.26	29.29	26.12		
LVF	MNCN- 43614					26.24		
LVF	MNCN- 43615				24.67			
LVF	MNCN- 42688		35.58	44.42	33.24	27.9		
LVF	MNCN- 42687			38.84				
LVF	MNCN- 42686				32.65	27.74		
LVF	MNCN- 42685				34.87	26.73		
LVF	MNCN- 42684				35.06	27.04	30.63	
LVF	MNCN- 42683				34.71	29.62	31.06	
LVF	MNCN- 42682				31.95	24.05	30.57	24.93
LVF	MNCN- 42681				33.09	26.83	28.47	28.69
LVF	MNCN- 42680	86.87	36.64	40.86	27.56	24.06	28.76	27.96

LVF	MNCN-42679	83.21	33.37	40.98	29.84	23.05	26.96	28.56
LVF	MNCN-42678	91	42.39	46.51	34.68	28.89	32.95	30.85
LVF	MNCN-42677	89.28	41.54	45.9	33.86	29.3	28.44	28.91
LVF	MNCN-42676	94.06	41.25	44.37	34.96	27.29	32.63	29.51
LVF	MNCN-42675	86.4	36.49	42.18	29.64	27.24	27.5	26.4
LVF	MNCN-42674	87.71	34.75	39.69	32.08	24.64	28.87	26.62
LVF	MNCN-42673	92.1	38.7	45.52	37.3	26.33	28.79	26.66
LVF	MNCN-42672	91.45	40.06	43.11	33.15	28.29	29.91	28.34
LVF	MNCN-42671	95.49	39.56	42.92	33.15	26.83	30.03	27.9
LVF	MNCN-42670	86.52	35	43.45	30.78	27.94	27.57	30.28
LVF	MNCN-42669	87.15	31.94	40.43	30.56	26.46	26.8	26.14
LVF	MNCN-42668	89.54	40.41	44.69	34.33	25.74	31.97	31.03
LVF	MNCN-42667	96.47	39.98	43.35	32.58	27.57	29.41	27.81
LVF	MNCN-42666	83.9	33.41	38.83	28.38	27.78	26.66	25.49
LVF	MNCN-42665	87.42	35.4	41.33	29.18	24.15	26.53	26.67
LVF	MNCN-42664	82.93	37.29	40.13	28.97	25.91	26.45	28.51
LVF	MNCN-42663	99.13	44.57	45.95	35.49	29.16	31.87	30.72
NOM	Crusafont, 1952	95	45	39.5				
LVF	Crusafont,	90.5	44	38.4	32.5			

1952							
LVF	Crusafont, 1952	80.5	35	40	30		
Second phalanx (Medial)							
Locality	Specimen n°/Reference	Total Length	Proximal TD	Proximal APD	Distal TD	Distal APD	Diaph. TD
LVF	MNCN-54848	47.3	34.51	37.81	32.69	33.66	33.21
LVF	MNCN-32718			33.7	29.56		23.79
LVF	MNCN-42727		28.99	35.27			
LVF	MNCN-42726	48.83	34.24	39.6	33.61	37.37	31.64
LVF	MNCN-42725	50.74	29.88	37.01	26.58	33.17	26.27
LVF	MNCN-42724	50.51	30.1	35.01	31.57	33.57	25.49
LVF	MNCN-42723	50.13	35.01	37.72	31.3	34.77	28.46
LVF	MNCN-42722	49.16	32.76	36	30.39	35.15	27.16
LVF	MNCN-42721	46.13	29.51	34.67	24.48	30.57	24.67
LVF	MNCN-42720	46.52	36.29	37.49	31.7	32.83	32.3
LVF	MNCN-42719	46.08	36.78	39.48		37.13	33.15
LVF	MNCN-42718	44.91	29.64	36.88	28.17	33.24	29.07
LVF	MNCN-42717	51.73	33.34	38.52	28.33	33.22	28.15
LVF	MNCN-42716	43.9	30.2	35.3	26.42	29.95	27.48
LVF	MNCN-42715	47.12	29.4	34.39	29.95	35.39	28.93
LVF	MNCN-42714	47.89	29.19	35.19	26.32		25.38
LVF	MNCN-42713	51.93	38.1	40.63	31.99	37.44	34.61
LVF	MNCN-42712	51.94	29.83	33.79		30.58	24.71
LVF	MNCN-42711	45.52	32.45	36.42	27.93	33.89	26.97
LVF	MNCN-42710	47.99	34.68	32.7	33.46	36.13	31.4
LVF	MNCN-42709	48.23	36.21	39.27	31.92	36.35	35.38
LVF	MNCN-42708	44.82	31.52	33.82	28.96	34.04	29.61
LVF	MNCN-42707	48.97	33	39.81	33.03	37.14	30.17

LVF	MNCN-42706	46.74	30.85	35.28	27.29	32.14	25.68
LVF	MNCN-42705		33.41	37.25			30.19
LVF	MNCN-42704	45.81	31.83	37.18	30.19	36.68	27.9
LVF	MNCN-42703	46.24	34.41	36.74	31.98	34.37	29.65
LVF	MNCN-42702		32.06	34.97			26.99
LVF	MNCN-42701		33.93	37.49			27.44
LVF	MNCN-42700					33.13	
LVF	MNCN-42699	48.93	30.27	31.86	27.75	34.45	23.74
LVF	MNCN-42698	49.93	28.4	36.26	28.01	32.97	26.21
LVF	MNCN-42697	49.73	29.77	37.41	26.88	31.08	25.82
LVF	MNCN-42696	48.56	29	34.21	27.38	31.53	25.54
LVF	MNCN-42695	49.74	33.99	37.12	31.93	36.01	28.96
LVF	MNCN-42694	44.37	28.69		27.9	32.26	26.64
LVF	MNCN-42693	47.85	30.53	38.38			26.68
LVF	MNCN-42692	46.43	29.95	35.88	25.56	30.97	25.41
LVF	MNCN-42691	46.6	30.99	35.88	28.66	32.63	29.32
LVF	MNCN-42690	50.68	35.74		30.59	36	29.98
LVF	MNCN-42689	43.24	30.08	32.7	29.42	36.65	27.82
NOM	Crusafont, 1952	50.5	34.5	43.7	34		
LVF	Crusafont, 1952	49	32	38	30		
Third phalanx (Distal)							
Locality	Specimen n°/Reference	Total Length	Dorsal Length	Proximal total APD	Fun. TD	Fun. APD	
LVF	MNCN-54850					22.43	
LVF	MNCN-43616				43.07	26.1	33.99
LVF	MNCN-42730					28.99	
LVF	MNCN-42729				43.87	23.12	29.28
LVF	MNCN-42728	72.84	56.73		45.67	25.98	33.02
LVF	Montoya and Morales, 1991				48	28.2	

TABLE 16S. Dimensions of the sesamoids of *D. pachecoi* in mm. **Abbreviations:** **APD**, anteroposterior diameter; **DT**, transversal diameter.

SED					
Specimen nº	Total TD	Interdigital facet TD	External facet TD	Maximum APD	Maximum Proximodistal length
MNCN-43583	32.99	20.55	10.66	14.59	16.01
MNCN-43584	25.55	14.42	8.79	11.33	14.21
MNCN-32350	33.22	17.58	13.09	18.7	
MNCN-43582	37.68	21.76	14.65	17.86	20.06
SEP external					
Specimen nº	Total TD	Maximum APD	Maximum Proximodistal length		
MNCN- 32070	14.99	22.51	24.97		
MNCN- 32071	13.39	21.06	24.75		
MNCN- 32072	15.61	21.81	25.55		
SEP interdigital					
Specimen nº	Total TD	Maximum APD	Maximum Proximodistal length		
MNCN- 32073	14.65	15.54	29.58		
MNCN- 32074	14.04	16.47	31.38		
MNCN- 32075	15.69	18.77	38.35		
MNCN- 32076	17.02	20.75	34.74		
MNCN-32719	15.13	18.46	30.14		

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