

ONLINE SUPPLEMENTARY INFORMATION

A new fossil megamouth shark (Lamniformes, Megachasmidae) from the Oligocene–Miocene of the western United States

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APPENDIX 1. Dental measurements (in millimeters) and other dental characteristics taken from holotype (asterisk) and paratype specimens of *Megachasma applegatei* sp. nov. (number in parentheses indicates estimated value). **Abbreviations** (see also Fig. 6A): **CH**, crown height; **CT**, crown thickness; **CW**, crown width; **G**, nutritive groove dominant; **nDC**, number of distal cusplets (number in quote marks indicates poorly-developed lateral cusplet represented by minute rise of cutting edge); **nMC**, number of mesial lateral cusplets (number in quote marks indicates poorly-developed lateral cusplet represented by minute rise of cutting edge); **P**, nutritive pore(s) dominant; **RL**, root length; **TH**, total tooth height; **TT**, total tooth thickness; **TW**, total tooth width (i.e., equivalent to ‘root width’ [RW]).

Specimen	TH	TW	TT	CH	CW	CT	RL	nMC	nDC	P/G
LACM 122130	9.6	8.4	5.6	7.6	6.5	3.4	6.3	0	0	P
LACM 122132	5.8	5.3	3.3	5.0	4.5	2.5	4.3	‘1’	‘1’	G
LACM 122133	10.1	8.7	5.6	7.3	7.4	2.8	8.3	1	1	G
LACM 122134	8.2	9.4	5.3	6.6	7.1	2.4	6.0	1	‘1’	G
LACM 122135	8.3	7.2	4.2	6.5	5.9	2.6	5.1	1	1	G
LACM 122136	6.0	6.1	3.8	4.5	5.1	2.0	5.0	1	1	G
LACM 122137	8.5	7.8	4.0	6.9	6.6	2.6	5.3	‘1’	1	G
LACM 122138	5.6	3.7	2.3	3.3	3.3	1.0	4.3	1	1	G
LACM 122139	9.6	7.6	4.6	5.9	6.0	2.7	6.6	0	0	G
LACM 122140	4.8	5.6	3.1	3.6	4.6	1.7	4.5	1	1	G
LACM 122141	7.1	7.1	4.3	5.3	6.5	2.5	5.5	1	?	G
LACM 122142	9.0	8.2	5.0	7.3	6.8	2.9	6.2	‘2’	‘2’	G
LACM 122143	(5.5)	7.0	3.4	(4.3)	6.2	1.7	3.6	‘2’	1	G
LACM 122145	5.7	4.7	3.1	4.7	4.3	1.9	3.9	1	1	P
LACM 122146	7.9	7.8	3.9	6.0	7.1	2.3	5.3	1	1	G
LACM 122147	6.3	5.8	3.4	4.5	3.3	1.7	4.5	1	1	G

LACM 122148	5.7	4.6	3.4	4.3	4.0	1.9	4.5	1	1	P
LACM 122149	6.5	7.1	4.2	4.3	5.1	2.1	5.1	1	1	G
LACM 122150	7.6	6.6	4.6	6.0	5.2	2.3	5.6	1	1	G
LACM 122151	5.1	6.3	3.5	3.7	5.4	1.3	4.5	'1'	1	P
LACM 122153	3.4	4.1	2.1	2.5	3.4	0.9	2.5	1	1	P
LACM 122154	(5.8)	6.9	3.8	(3.9)	5.6	1.7	4.3	1	1	P
LACM 122155	5.5	6.0	3.5	3.5	5.4	1.9	4.7	1	1	P
LACM 122156	7.0	4.7	3.8	3.4	4.0	1.6	6.0	1	1	G
LACM 122157	5.6	4.3	2.5	4.4	3.9	1.7	3.8	1	1	P
LACM 122158	7.7	7.6	3.9	5.8	5.7	1.9	5.5	1	1	G
LACM 122159	6.6	6.5	3.7	5.0	6.2	2.0	5.0	1	1	P
LACM 122160	5.1	4.9	3.1	3.8	3.2	1.9	5.0	'1'	'1'	G
LACM 122161	4.7	4.6	3.0	3.6	4.1	1.7	4.3	1	1	G
LACM 122162	(6.0)	8.9	3.5	4.5	5.7	1.1	5.5	0	0	G
LACM 122163	3.5	3.9	2.3	2.6	3.2	0.9	3.4	1	1	G
LACM 122164	4.6	4.4	3.1	3.8	3.7	1.6	3.1	0	0	P
LACM 122165	5.8	4.7	3.0	4.6	4.4	1.4	4.2	0	1	P
LACM 122166	5.3	6.7	3.1	4.1	5.6	1.8	4.8	1	1	G
LACM 122167	6.2	5.6	3.9	5.1	4.7	1.5	4.7	0	1	G(+P)
LACM 122168	8.2	6.6	4.5	6.4	5.5	2.0	5.9	1	1	G
LACM 122169	7.0	6.7	3.8	5.1	5.8	1.9	5.0	1	1	P
LACM 122170	6.8	7.3	3.8	5.2	5.6	2.4	5.1	1	0	G
LACM 122171	5.8	5.4	3.4	4.5	4.6	1.7	4.4	1	1	G

LACM 122172	6.5	(6.9)	3.9	5.0	5.5	2.1	4.8	1	1	P
LACM 122173	5.9	6.7	3.8	3.2	5.4	1.7	5.6	1	0	G
LACM 122174	7.8	6.6	3.9	6.0	5.8	1.9	5.6	1	1	G
LACM 122175	5.0	4.3	2.6	3.4	3.7	1.2	4.3	1	1	G
LACM 122176	7.0	5.5	4.1	5.3	4.4	2.0	5.1	1	1	G
LACM 122177	5.6	5.5	3.4	3.8	4.6	1.2	4.8	1	1	G
LACM 122178	5.5	7.9	3.4	4.3	6.9	1.9	3.6	1	1	P
LACM 122179	5.0	7.3	3.1	4.0	6.1	2.1	3.6	1	'2'	P
LACM 122181	(3.6)	3.3	2.3	(2.8)	3.1	1.0	2.8	1	1	G
LACM 122182	5.4	4.7	3.3	4.2	3.8	1.8	4.5	'1'	0	G
LACM 122183	5.2	6.9	2.9	4.5	6.3	1.7	3.5	1	1	P
LACM 122184	6.1	6.0	3.7	4.8	5.0	1.8	4.3	'1'	0	G
LACM 122186	7.4	7.0	4.2	5.5	5.7	2.0	6.0	'1'	0	G
LACM 122187	7.4	7.0	4.5	5.4	6.0	1.9	6.5	1	1?	G
LACM 122189	6.4	5.2	3.4	5.1	4.5	2.0	4.5	1	1	P
LACM 122190*	8.6	8.3	4.3	7.0	6.6	2.2	6.1	1	1	G
LACM 122191	6.8	6.2	3.9	4.7	5.4	2.0	5.1	0	1	G
LACM 122192	6.0	7.3	3.1	4.9	6.6	2.0	4.0	1	'1'	P
LACM 122193	7.3	7.4	4.6	5.4	5.8	1.8	7.3	'1'	1	G
LACM 122194	(5.5)	5.2	4.8	(4.4)	4.8	1.5	5.2	1	1	G
LACM 122195	8.2	7.5	4.8	5.9	5.5	2.2	5.9	1	'1'	G
LACM 122196	6.7	9.3	4.3	5.1	8.2	2.0	5.5	1	1	G
LACM 122197	14.7	10.2	9.2	12.9	8.0	3.2	8.3	0	0	P

LACM 122198	(11.6)	(8.2)	8.2	8.5	6.7	3.0	(8.6)	1	1	G
LACM 122199	6.1	7.0	3.7	4.8	5.0	1.8	3.8	'1'	0	P
LACM 122200	5.4	6.4	6.6	4.5	5.9	1.7	3.3	1	1	G(+P)
LACM 122201	5.3	7.3	3.1	3.8	5.6	1.5	4.2	'1'	'1'	G(+P)
LACM 122202	6.0	5.0	4.1	3.2	4.5	1.7	4.5	1	0	G

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