

**Disproving claims for small-bodied humans in the Palauan archipelago**Jessica H. Stone<sup>1</sup>, Scott M. Fitzpatrick<sup>1,2</sup> & Matthew F. Napolitano<sup>1</sup><sup>1</sup> *Department of Anthropology, University of Oregon, Eugene, OR 97403, USA*<sup>2</sup> *Museum of Natural and Cultural History, University of Oregon, Eugene, OR 97403, USA**Author for correspondence (Email: jstone3@uoregon.edu)*

*Recent excavation at Ucheliungs Cave in Palau has provided new evidence in the debate concerning the colonisation of the Palauan archipelago. An abundance of faunal material and the presence of transported artefacts contradict a previous interpretation that the site represents an early burial cave containing purported small-bodied humans. New radiocarbon dates suggest long-term use of the cave for both mortuary activity and small-scale marine foraging that may slightly precede the accepted date for the earliest human occupation of Palau. The results of this research here discount earlier claims for insular dwarfism among the earliest inhabitants of these islands.*

*Keywords:* Micronesia, Palau, Ucheliungs Cave, radiocarbon dating, insular dwarfism

**Table S1. Faunal remains recovered from Ucheliungs.**

<b>Taxon</b>	<b>Weight (g)</b>	<b>MNI</b>	<b>NISP</b>
<b>GASTROPODA</b>			
<i>Cantharus</i> sp.	6.53	5	8
<i>Cerithium</i> sp.	1.9	1	1
<i>Cerithidae</i> sp.	0.98	1	1
<i>Cerithoidea</i> sp.	1	3	3
<i>Conomurex luhuanus</i>	0.11	1	1
<i>Conus arenatus</i>	0.3	1	2
<i>Conus</i> sp.	43.51	13	16
<i>Cypraea</i> sp.	23.26	14	14
<i>Cypraea tigris</i>	16.65	1	1
<i>Erosaria helvola</i>	6.08	1	1
<i>Gibberulus gibberulus</i>	12.71	6	9
<i>Lambis lambis</i>	14.16	1	1

<i>Lambis</i> sp.	0.56	1	1
<i>Latirolagena smaragdulus</i>	1	2	2
<i>Mauritia arabica</i>	34.98	1	1
<i>Monoplex nicobaricus</i>	12.29	11	14
<i>Nassarius</i> sp.	0.64	1	1
<i>Nerita polita</i>	7.16	2	2
<i>Nerita</i> sp.	33.7	58	81
<i>Oliva</i> sp.	0.01	1	1
<i>Patellidae</i> sp.	1.71	4	4
<i>Peristernia</i> sp.	0.21	3	3
<i>Pupuradusta microdon</i>	0.7	1	1
<i>Pythia scarabaeus</i>	8.62	15	15
<i>Rhinoclavis aspera</i>	0.29	1	1
<i>Strombidae</i> sp.	13.84	5	10
<i>Strombus</i> sp.	4.99	2	3
<i>Tectus niloticus</i>	2.88	5	8
<i>Terebralia sulcata</i>	6.34	2	2
<i>Thais</i> sp.	2.08	3	3
<i>Trochus</i> sp.	52.13	15	38
<i>Turitellidae</i> sp.	0.05	1	1
<i>Videna</i> sp.	9.62	59	67
Land snail A	1.47	20	41
Land snail B	8.33	107	134
Turbo opercula	6.44	1	1
Miscellaneous opercula	5.82	8	8
Miscellaneous gastropods	118.72		262
<b>Total gastropod</b>	<b>461.77</b>	<b>377</b>	<b>763</b>
<b>BIVALVIA</b>			
<i>Anadara</i> sp.	17.89	7	7
<i>Arca</i> sp.	6.51	1	1
<i>Arca ventricosa</i>	48.97	13	16
<i>Arcidae</i> sp.	33.59	126	224
Bivalve, pr. <i>Cardiidae</i> sp.	11.72	2	2

<i>Cardita variegata</i>	0.5	2	2
<i>Cardita</i> sp.	0.05	1	1
<i>Chama</i> sp.	139.42	14	15
<i>Codakia</i> sp.	0.28	1	1
<i>Fimbria</i> sp.	2.68	1	1
<i>Hippopus hippopus</i>	42.43	1	1
<i>Isognomon isognomon</i>	5.18	1	8
<i>Isognomon</i> sp.	0.83	2	6
<i>Limidae</i> sp.	0.6	4	4
<i>Lucinidae</i> sp.	6.96	9	13
<i>Spondylus</i> sp.	71.2	20	21
<i>Tapes litteratus</i>	0.96	1	3
<i>Tellina</i> sp.	0.13	2	2
<i>Tellinidae</i> sp.	0.02	1	1
<i>Venericardia</i> sp.	0.8	2	2
<i>Veneridae</i> sp.	0.37	3	3
Miscellaneous bivalves	191.13		405
<b>Total bivalve</b>	<b>582.22</b>	<b>214</b>	<b>739</b>
Miscellaneous shell	305.09		1084
<b>Total shell</b>	<b>1349.08</b>	<b>591</b>	<b>2586</b>
<b>POLYPLACOPHORA</b>			
Chiton	0.55	3	4
<b>ARTHROPODA</b>			
Crustacea	140.87		971
<i>Cirripedia</i> sp.	37.41		69
<b>Total arthropod</b>	<b>178.28</b>		<b>1040</b>
Sea Urchin (Echinoidea)	0.24		6
<b>VERTEBRATA</b>			
Shark	0.76	1	2
Bird	0.57	1	1
Fish	1.04	1	1
<b>Total vertebrate</b>	<b>2.37</b>	<b>4</b>	<b>4</b>
<b>TOTAL</b>	<b>1530.52</b>	<b>623</b>	<b>3640</b>

**Table S2. Ceramics recovered from Ucheliungs.**

Level	Cat_Num	Temper	Form	Thickness	Count	Weight	Comment
1	7	Volcanic sand	body	5.1	1	7.58	
1	8	Volcanic sand	body	7.55	1	7.6	
1	9	Volcanic sand	body	7.32	1	6.54	
1	10	Volcanic sand	body	9.63	1	5.58	
2	4	Volcanic sand	body	—	1	2.94	
2	5	Volcanic sand	UID	—	2	1.97	refit
2	6	Volcanic sand	body	3.96	1	1.58	
3	1	Volcanic sand	body	10.07	1	5.5	
3	2	Volcanic sand	body	5.31	1	3.67	
3	3	Volcanic sand	body	10.18	1	13.81	
surface	11	Volcanic sand	body	9.06	1	2.73	
surface	12	Volcanic sand	body	8.78	2	42.85	refit
surface	13	Volcanic sand	rim	6.24	1	6.51	
surface	14	Volcanic sand	body	6.99	1	75.32	
surface	15	Volcanic sand	body	6.05	1	44.64	
surface	16	Volcanic sand	body	7.28	1	27.31	

		sand					
surface	17	Volcanic sand	body	7.21	1	51.08	
surface	18	Volcanic sand	body	5.3	1	34.42	
surface	19	Volcanic sand	body	8.82	2	20.19	refit
surface	20	Volcanic sand	body	6.69	1	15.56	
surface	21	Volcanic sand	body	6.47	1	23.6	
surface	22	Volcanic sand	body	7.09	1	39.34	
surface	23	Volcanic sand	body	6.79	1	30.64	
surface	24	Volcanic sand	rim	8.57	3	185.64	refit
surface	25	Volcanic sand	base, rounded	10.25	1	103.13	

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