

Supplementary Material

White-footed dunnarts (*Sminthopsis leucopus*) in Queensland's Wet Tropics, with the description of a new subspecies

Tyrone H. Lavery^{A,B,C,*}, *Rachael Collett*^D, *Diana O. Fisher*^D, *Conrad J. Hoskin*^E and *Jesse Rowland*^F

^AQueensland Museum, Corner of Grey and Melbourne Streets, South Brisbane, Qld 4101, Australia

^BNegaunee Integrative Research Centre, Field Museum of Natural History, Chicago, IL 60605, USA

^CFenner School of Environment and Society, The Australian National University, 141 Linnaeus Way, Acton, ACT 2601, Australia

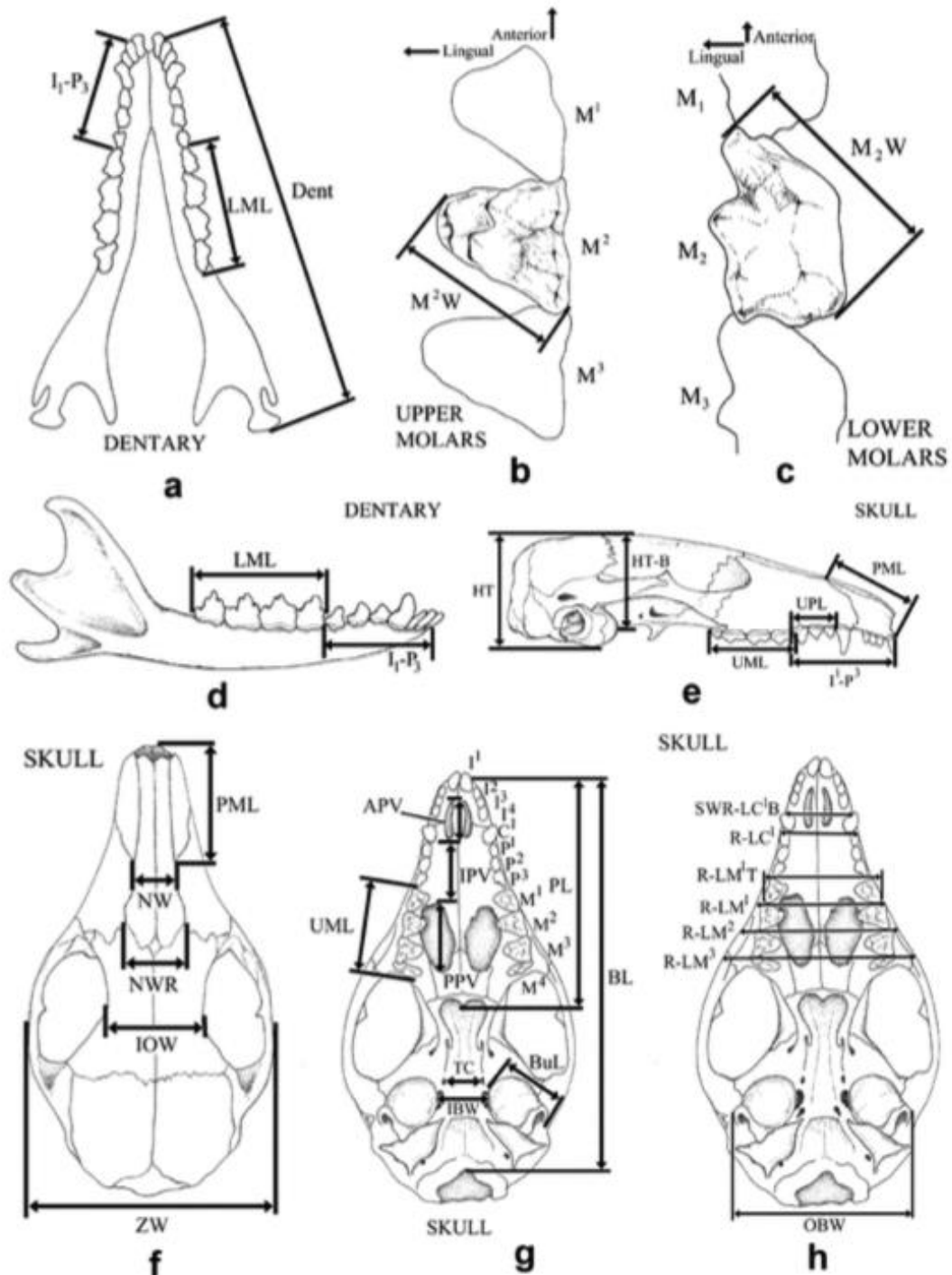
^DSchool of Biological Sciences, The University of Queensland, St Lucia, Qld 4072, Australia

^ECollege of Science & Engineering, James Cook University, Townsville, Qld 4811, Australia

^FSchool of Science and Engineering, University of the Sunshine Coast, Sippy Downs, Qld 4556, Australia

*Correspondence to: Email: tyrone.lavery@anu.edu.au

Supplementary Figure S1. Guide to craniodental variables measured from *Sminthopsis leucopus* specimens as provided by Baker *et al.* (2012).



Supplementary Table S1. Specimen catalogue numbers (QM = Queensland Museum, MV = Museums Victoria, ANWC = Australian National Wildlife Collection) and corresponding data on year of collection (Year), collector, state and location of collection and sex (F = female, M = male, U = unknown) for material examined as part of this study.

Cat. No.	<i>Subspecies</i>	Year	Collector	State	Location	Sex
QM JM2508	<i>S. l. janetzkae</i> subsp. nov.	1966	P. Johnson	QLD	Mt Spec N.Q.	F
QM JM3793	<i>S. l. janetzkae</i> subsp. nov.	1982	S. VanDyck	QLD	Koolmon Falls N.Q.	-
QM JM5499	<i>S. l. janetzkae</i> subsp. nov.	1986	B. Lawrence	QLD	Malaan Forestry Camp, 10km S Millaa Millaa	F
QM JM20890	<i>S. l. janetzkae</i> subsp. nov.	2016	J. Rowland & R. Collett	QLD	Danbulla NP	M
QM JM16176	<i>S. l. janetzkae</i> subsp. nov.	1997	S. Burnett	QLD	Mt Edith area, Lamb Range	U
QM JM6677	<i>S. l. janetzkae</i> subsp. nov.	1984	S. VanDyck	QLD	Tully Falls National Park	U
QM JM16194	<i>S. l. janetzkae</i> subsp. nov.	2003	S. Burnett	QLD	Mt Edith area, Lamb Range	U
QM JM16205	<i>S. l. janetzkae</i> subsp. nov.	2003	S. Burnett	QLD	Mt Edith area, Lamb Range	U
MV C.891	<i>S. l. ferruginifrons</i>	1937	-	VIC	Beech Forest	M
MV C.7270	<i>S. l. ferruginifrons</i>	1967	J. Dixon	VIC	Gellibrand River	F
MV C.24955	<i>S. l. ferruginifrons</i>	1981	A. Patrick	VIC	Angelsea	U
MV C.30451	<i>S. l. ferruginifrons</i>	1977	B. Wilson	VIC	Angelsea	F
MV C.30462	<i>S. l. ferruginifrons</i>	1995	S. Downes	VIC	Toolangi	M
MV C.30454	<i>S. l. ferruginifrons</i>	1980	B. Wilson	VIC	Angelsea	F
MV C.22189	<i>S. l. ferruginifrons</i>	1978	Washington	VIC	Blairgowrie	U
MV C.23478	<i>S. l. ferruginifrons</i>	1978	K. Bartram	VIC	Cape Schanck	F
MV C.14015	<i>S. l. ferruginifrons</i>	1968	-	VIC	Flinders Naval Depot, Sandy Pt	M
MV C.14012	<i>S. l. ferruginifrons</i>	1963	R. Rogers	VIC	Track to Jackson's Crossing	M
MV C.17745	<i>S. l. ferruginifrons</i>	1963	-	VIC	11m south	F

					Colac	
MV C.14014	<i>S. l. ferruginifrons</i>	1968		VIC	Flinders Naval Depot, Sandy Pt	M
MV C.17748	<i>S. l. ferruginifrons</i>	-	-	VIC	Flinders Naval Depot, Sandy Pt	M
MV C.14030	<i>S. l. ferruginifrons</i>	1968	KJC, WMB, RMW	VIC	Flinders Naval Depot, Sandy Pt	M
MV C.14013	<i>S. l. ferruginifrons</i>			VIC	11m south Colac	F
MV C.14021	<i>S. l. ferruginifrons</i>	1967		VIC	1.5 mls N Forrest, Cemetary Rd	M
MV C.14016	<i>S. l. ferruginifrons</i>	1968		VIC	Flinders Naval Depot, Sandy Pt	M
MV C.24032	<i>S. l. ferruginifrons</i>	-	I. Temby	VIC	Kangaroo Ground	M
MV C.26896	<i>S. l. ferruginifrons</i>	-	P. Woolley	VIC	Sandy Point	F
MV C.15886	<i>S. l. ferruginifrons</i>	1970	-	VIC	Airey's Inlet, Distillery Ck	M
MV C.6343	<i>S. l. leucopus</i>	1872	L. A. Peers	TAS		M
ANWC CM15441	<i>S. l. leucopus</i>	1980	D. Spratt	TAS	Round Hill	F
ANWC M08747	<i>S. l. leucopus</i>	1965		TAS	Holwell	F
ANWC M10253	<i>S. l. leucopus</i>	1965		TAS	Holwell	M
ANWC CM6022	<i>S. l. ferruginifrons</i>	1972		NSW	Nadgee?	F
ANWC CM13118	<i>S. l. ferruginifrons</i>	1983		NSW	Sidling Swamp, Timbillica S.F.	M

Supplementary Table S2. Specimens and corresponding Genbank accession numbers for samples included in the phylogenetic reconstruction (mitochondrial gene Cytochrome *b*). Where available, museum specimen catalogue numbers and collecting localities are provided (ABTC = Australian Biological Tissue Collection, Adelaide; AM = Australian Museum, Sydney; MAGNT = Museum and Art Gallery of the Northern Territory; SAM = South Australian Museum, Adelaide; QM = Queensland Museum, Brisbane).

Taxon	Cat No.	Location	Genbank Accession No.
<i>Planigale maculata</i>	QM JM1486	–	U10318
<i>S. l. janetzkiae</i>	QM JM20890	Danbulla National Park, QLD	TBA
<i>S. l. janetzkiae</i>	ABTC07811	Atherton Tablelands, QLD	TBA
<i>S. l. ferruginifrons</i>	–	Otway Ranges, VIC	AF088929
<i>S. l. leucopus</i>	–	St Helens, TAS	AF088928
<i>S. fuliginosus aitkeni</i>	SAM M16158	–	AF088919
<i>S. archeri</i>	QM JM10027	–	AF088920
<i>S. bindi</i>	MAGNT 4180	Batchelor, NT	AF088921
<i>S. dolichura</i>	–	Tutanning Nature Reserve, WA	AF088922
<i>S. douglasi</i>	–	–	AF088923
<i>S. gilberti</i>	–	–	AF088924
<i>S. granulipes</i>	WAM M20647	Jilbadji Nature Reserve, WA	AF088925
<i>S. hirtipes</i>	WAM M20796/M20797	–	AF088927
<i>S. longicaudata</i>	WAM M24531	–	AF088930
<i>S. macroura</i>	–	–	AF001582
<i>S. murina</i>	AM M11245	–	U07594
<i>S. ooldea</i>	SAM M17477	Tallaringa Conservation Park, SA	AF088931
<i>S. youngsoni</i>	QM JM10029	Ethabooka Station, QLD	AF088935

Supplementary Table S3. Records of *Sminthopsis leucopus janetzkieae*

Source	Date	Type	Location	Elevation (m)	Regional Ecosystem
Queensland Museum	Oct 1966	Live capture (break-back trap), specimen (JM2508)	Paluma Dam, Mt Spec, 33 km south of Ingham,	926	7.12.16a
Queensland Museum	Jul 1982	Live capture (Elliott trap), specimen (JM3793)	Koolmoon Falls, 20km south of Ravenshoe	847	7.8.4a
Queensland Museum	Jul 1984	Cranial fragments (JM6677)	Tully Falls National Park, 20 km south of Ravenshoe	850	7.8.4a
Queensland Museum	Aug 1986	Live capture (pitfall trap), specimen (JM5499)	Malaan Forestry Camp, 10km south of Millaa Millaa	819	7.12.16a
Watt (1997) / Smith <i>et al.</i> (2017)	1987–1990	Live capture (Elliott trap)	Koolmoon Creek, Mount Father Clancy	800–860	7.8.4a
Williams (1998)	Apr 1992–Jun 1993	Live capture (Elliott trap)	Tully Falls National Park, 20 km south of Ravenshoe	730–1000	7.8.4a
Queensland Museum	May 1997	Specimen (owl pellets) (JM16176)	Mt Edith area, Lamb Range	850	-
Queensland Museum	Oct 2003	Specimen (owl pellets) (JM16205)	Mt Edith area, Lamb Range	850	-
K. McDonald (pers. comm.)	2009	Observation	Mt Edith Rd, Danbulla National Park	> 800	-
This study, Queensland Museum	Aug 2016	Live capture (Elliott trap), specimen (JM20890)	Mt Edith Rd, Danbulla National Park	900	7.12.16a
This study	2016–2017	Camera traps (10 records)	Kauri Creek Rd, Danbulla National Park	755	
This study	Jan 2017	Camera traps	Mt Edith Rd, Danbulla National Park	1,000	7.12.16a
Rowland <i>et al.</i> (2020b)	Sep 2018	Camera trap	South Johnstone area (Wooroonooran National Park)	712	7.8.4a