

Genetic and phenotypic diversity in the wedgfish *Rhynchobatus australiae*, a threatened ray of high value in the shark fin trade

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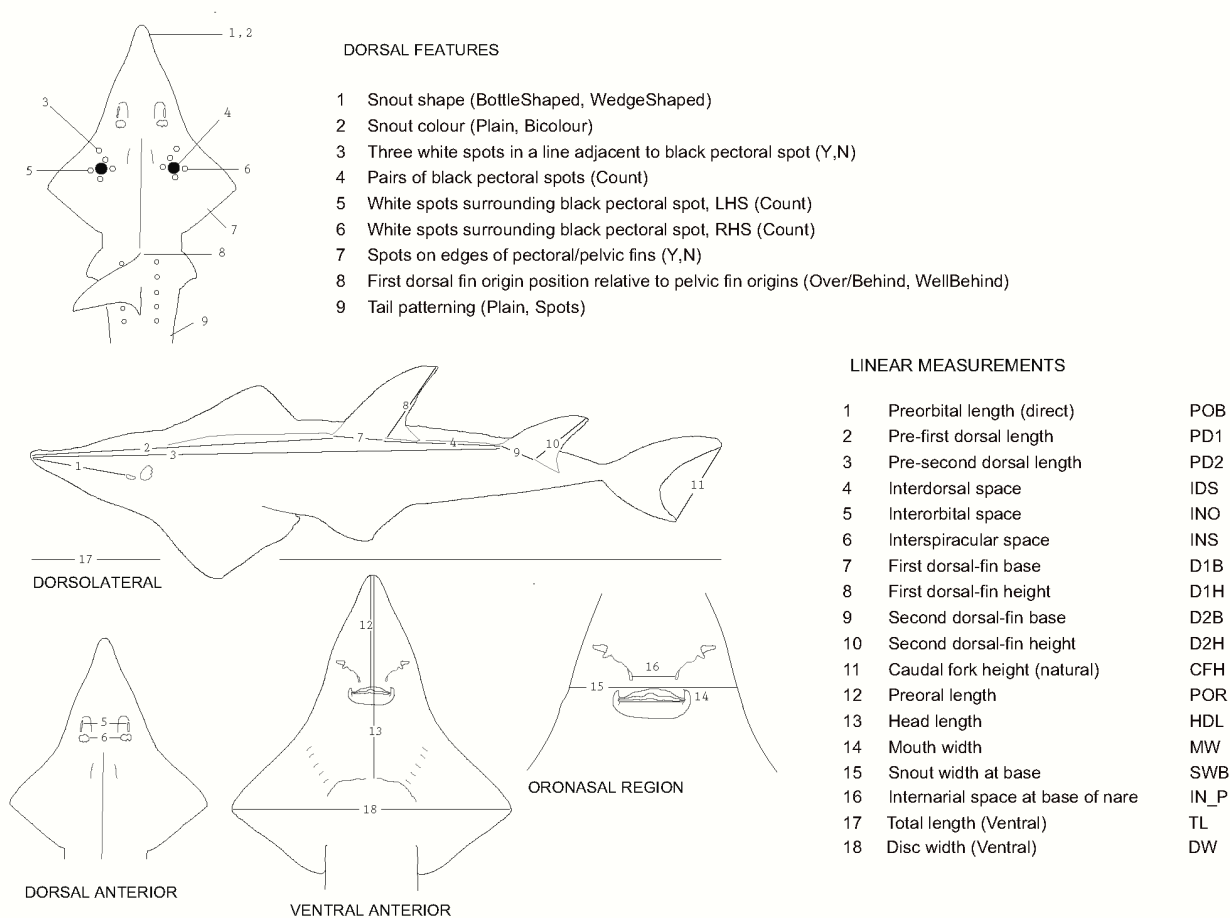


Fig. S1. Dorsal patterning features and linear measurements recorded in this study.

Table S1. Morphological reference specimens (1-10) and DNA reference specimens (11-33).

No.	Species [publication]	Specimen No. [collection]	Specimen information	mtDNA region	GenBank Accession	Origin
1	<i>R. springeri</i> [1]	PISC 35839 [c]	Holotype	.	.	Indonesia
2	<i>R. palpebratus</i> [2]	H 3384-01 [a]	Holotype	.	.	Australia
3	<i>R. palpebratus</i> [2]	CA2373 [a]	Paratype	.	.	Australia
4	<i>R. palpebratus</i> [2]	H 2376-08 [a]	Paratype	.	.	Australia
5	<i>R. palpebratus</i> [2]	H 3322-01 [a]	Paratype	.	.	Australia
6	<i>R. palpebratus</i> [2]	H 3340-01 [a]	Paratype	.	.	Australia
7	<i>R. palpebratus</i> [2]	H 4927-01 [a]	Paratype	.	.	Thailand
8	<i>R. springeri</i> [1]	CAS 229747 [b]	Paratype	.	.	Thailand
9	<i>R. springeri</i> [1]	CAS 229748 [b]	Paratype	.	.	Thailand
10	<i>R. springeri</i> [1]	CAS 229752 [b]	Paratype	.	.	Thailand
11	<i>R. sp</i> [3]	GN4321	.	ND2	.	Philippines
12	<i>R. immaculatus</i> [5]	GN10067	.	ND2	KF927960	Taiwan
13	<i>R. sp (R. djiddensis*)</i>	A-7850 [d]	MNHN A-7850	CR	.	India
14	<i>R. palpebratus</i> [3]	GN2044	.	ND2	JQ518925	Australia
15	<i>R. palpebratus</i> [3]	GN2058	.	ND2	.	Australia
16	<i>R. laevis</i> [3]	GN3004 [a]	ANFC H 6221-02	ND2	JQ519024	Malaysia
17	<i>R. cf laevis</i> [3]	GN2065	.	ND2	JQ518926	Australia
18	<i>R. cf laevis</i> [4]	BW-A185	.	COI	DQ108191	Australia
19	<i>R. cf laevis</i> [4]	BW-A186	100% match to BW-A185	COI	.	Australia
20	<i>R. cf laevis</i> [3]	GN2079	.	ND2	.	Australia
21	<i>R. cf laevis</i> [3]	GN4627 [a]	ANFC H 6319-01	ND2	.	Australia
22	<i>R. cf laevis</i> [3]	GN5514	.	ND2	.	Australia
23	<i>R. cf laevis</i> [3]	GN5577	.	ND2	.	Australia
24	<i>R. australiae</i> [3]	GN2996 [a]	ANFC H 6221-01	ND2	JQ519023	Malaysia
25	<i>R. australiae</i> [4]	BW-A184	.	COI	DQ108199	Australia
26	<i>R. australiae</i> [3]	GN1617	.	ND2	.	Australia
27	<i>R. australiae</i> [3]	GN1618	.	ND2	.	Thailand
28	<i>R. australiae</i> [3]	GN2201	.	ND2	.	Singapore
29	<i>R. australiae</i> [3]	GN2893	.	ND2	.	Malaysia
30	<i>R. australiae</i> [3]	GN2926	.	ND2	.	Malaysia
31	<i>R. australiae</i> [3]	GN3601	.	ND2	.	Malaysia
32	<i>R. australiae</i> [3]	GN3631	.	ND2	.	Malaysia
33	<i>R. australiae</i> [3]	GN4416	.	ND2	.	Indonesia

Publications

- [1] Compagno & Last, 2010
- [2] Compagno & Last, 2008
- [3] Naylor et al. 2012
- [4] Ward et al. 2005
- [5] Straube et al. 2013

Collections

- [a] Australian National Fish Collection, CSIRO, Hobart, Australia
- [b] California Academy of Sciences, San Francisco, USA
- [c] NCB Naturalis Biodiversity Center, Leiden, Netherlands
- [d] National Museum of Natural History, Paris, France

*Syntype, *Rhynchobatus laevis* (Müller & Henle, 1841). Current identification after Séret & McEachran 1986.

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- [1] Compagno LJV, Last PR (2010) A new species of wedgefish, *Rhynchobatus springeri* (Rhynchobatoidei, Rhynchobatidae), from the Western Pacific. In: Last PR, White WT, Pogonoski JJ (eds) Descriptions of new sharks and rays from Borneo. CSIRO Marine and Atmospheric Research Paper 032, Hobart, p 77–88
- [2] Compagno LJV, Last PR (2008) A new species of wedgefish, *Rhynchobatus palpebratus* sp. nov. (Rhynchobatoidei: Rhynchobatidae), from the Indo-West Pacific. In: Last PR, White WT, Pogonoski JJ (eds) Descriptions of new Australian chondrichthyans. CSIRO Marine and Atmospheric Research Paper 022, Hobart, p 227–240
- [3] Naylor GJP, Caira J, Jensen K, Rosana KAM, White WT, Last PR (2012) A DNA sequence-based approach to the identification of shark and ray species and its implications for global elasmobranch diversity and parasitology. Bull Am Mus Nat Hist No. 367
- [4] Ward RD, Zemlak TS, Innes BH, Last PR, Hebert PDN (2005) DNA barcoding Australia's fish species. Philos Trans R Soc Lond B Biol Sci 360:1847–1857
- [5] Straube N, White WT, Ho H, Rochel E, Corrigan S, Li C, Naylor GJP (2013) A DNA sequence-based identification checklist for Taiwanese chondrichthyans. Zootaxa 3752:256