Supplementary Information

Novel genetic data for conservation monitoring of the false catshark (*Pseudotriakis microdon*)

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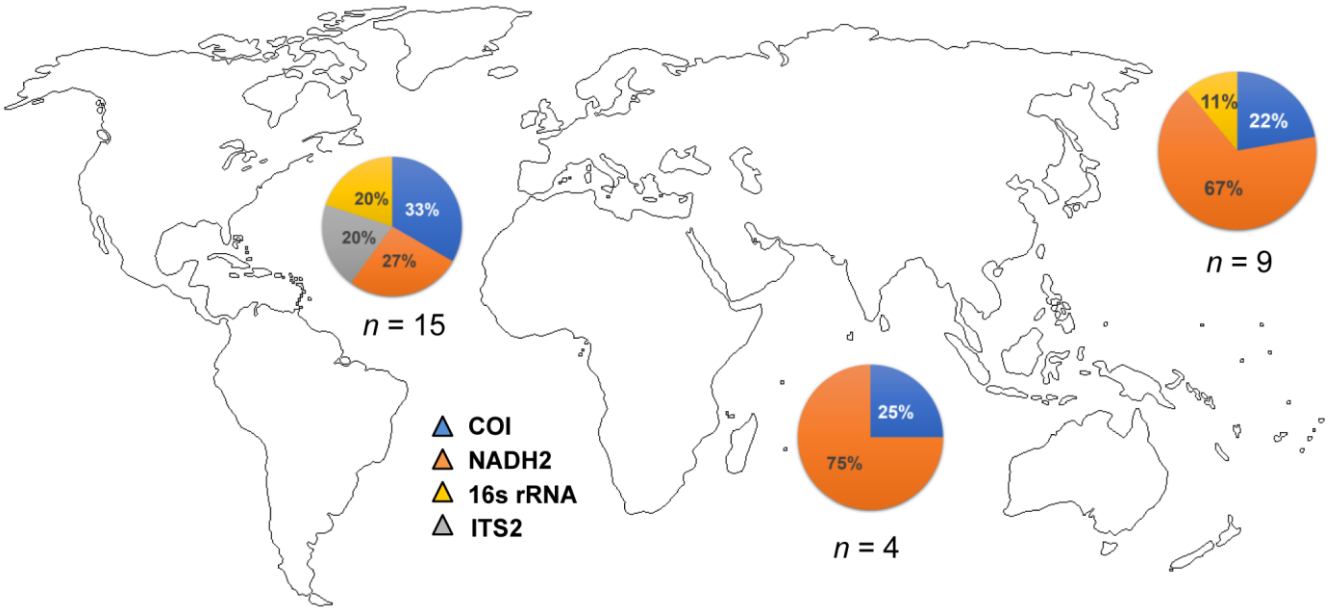
Online Resource 1 – PCR primers used in this study.

Genetic marker	Primers (5´-3´)	Reference
Cytochrome c oxidase subunit I gene (COI)	TTCTCCACCAACCACAARGAYATYGG	Ivanova NV et al. (2007) Molecular Ecology Notes, 7, 544-548.
	CACCTCAGGGTGTCCGAARAAYCARAA	
16s ribosomal RNA (rRNA)	CGCCTGTTTATCAAAAACAT	Palumbi SR (1996) Molecular systematics, 205-247.
	CCGGTCTGAACTCAGATCACGT	
NADH dehydrogenase subunit 2 (NADH2)	AAGGACCACTTTGATAGAGT	Naylor GJ, et al. (2005) Reproductive biology and phylogeny, 3, 25.
	AACGCTTAGCTGTTAATTAA	
Internal transcribed spacer 2 (ITS2) region of nuclear ribosomal DNA	TTAGCGGTGGATCACTCGGCTCGT	Pank M et al. (2001). Marine Biotechnology, 3, 231-240.
	TCCTCCGCTTAGTAATATGCTTAAATTCAGC	

Online Resource 2 – Source of *Pseudotriakis microdon* sequences used in this study.

Reference	Nº of sequences	Sampling region	Genetic markers	Accession number
Iglésias et al. 2005	1	Atlantic Ocean	*16s rRNA* (*n* = 1)	AY049049
López et al. 2006	1	Unknown	*NADH2* (*n* = 1)	DQ422109
Unpublished	2	Atlantic Ocean	*COI* (*n* = 2)	EU148299; EU148300
Ward et al. 2008	1	Indian Ocean	*COI* (*n* = 1)	EU869838
Naylor et al. 2012	1	Atlantic Ocean	*NADH2* (*n* = 1)	JQ518662
Straube et al. 2013	8	Pacific Ocean (Taiwan)	*NADH2* (*n* = 5)	KF927948 - KF927952
		Indian Ocean	*NADH2* (*n* = 3)	KF927994 - KF927996
Tanaka et al. 2013	3	Pacific Ocean (Japan)	*NADH2* (*n* = 1); *COI* (*n* = 1); *16s rRNA* (*n* = 1)	NC022735 (AB560493)
Teramura et al. 2023	1	Pacific Ocean (Japan)	*COI* (*n* = 1)	ON398675
This study	11	Atlantic Ocean	*NADH2* (*n* = 3); *COI* (*n* = 3); 16s rRNA (*n* = 2); *ITS2* (*n* = 3)	ON740640, ON740647, ON746572, ON755315, OR354913, OR354914, OR355678, OR355679

Online Resource 3 - Distribution of *Pseudotriakis microdon* mitochondrial DNA sequences according to the genetic marker and sampling area.



Online Resource 4. Top matches to the new *Pseudotriakis microdon COI* sequence obtained in this work (Atlantic Ocean) estimated in the BOLD database.

Species	Similarity (%)	Number of sequences	Geographic origin (Ocean)
Pseudotriakis microdon	100	6	Indian, Atlantic or unknown
	98.40 to 98.58	3	Pacific (Japan) or unknown
Gollum attenuatus	93.27 to 94.61	15	Indian (Australia/New Zealand) or unknown
Proscyllium habereri	88.78 to 90.06	11	Pacific or unknown