

Thriving in the dark: a new record and new species of Annelida (Lamarck, 1802) from a Balearic anchialine cave (Western Mediterranean Sea)

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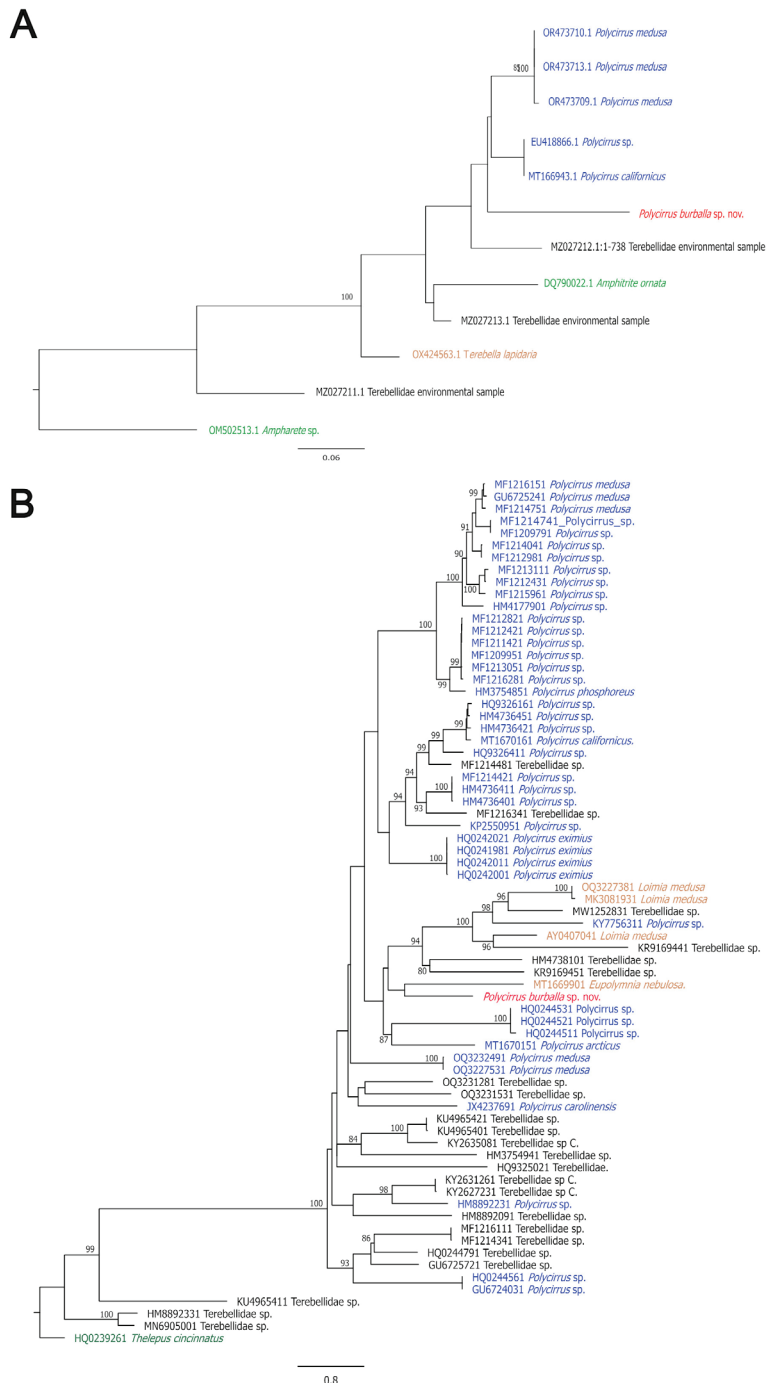


Fig. S1: Phylogenetic trees of the (A) nuclear 28S rDNA D1 region and (B) the mitochondrial COI Polycirrinini data set. Bootstrap statistical support values are reported above tree branches. Coloured in green outgroup terminals; in orange, representatives of non-Polycirrinini; in blue, sequences belonging to individuals identified as *Polycirrus* in public repositories; and in red the new species.

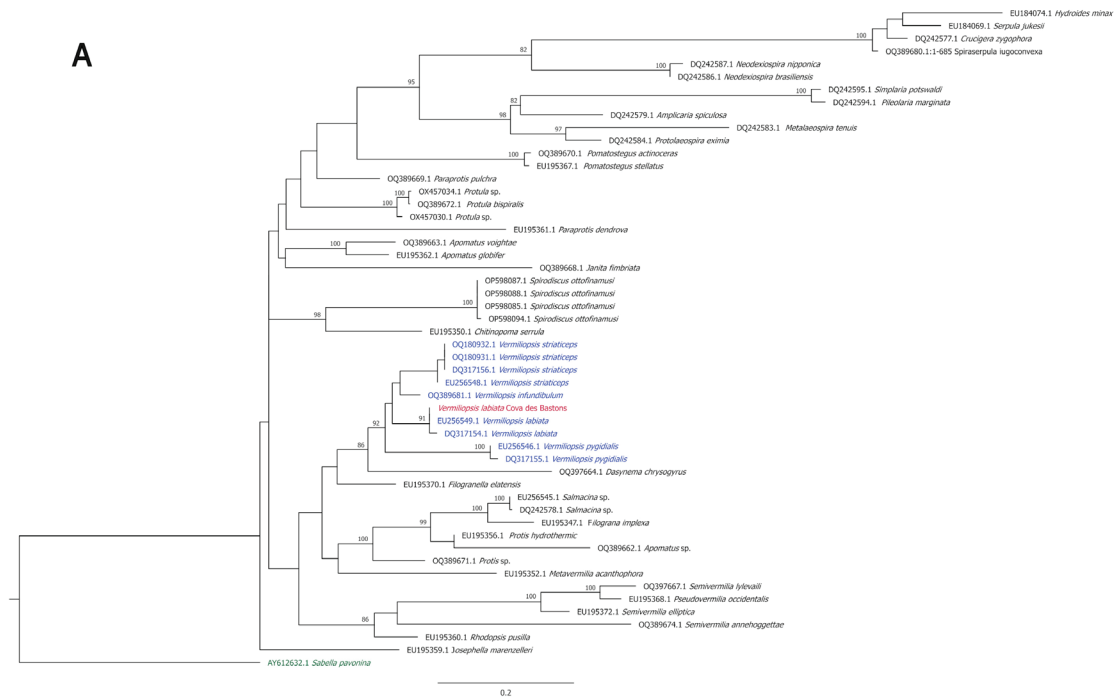


Fig. S2: Phylogenetic tree of the nuclear 28S rDNA data set for Serpulidae. Bootstrap statistical support values are reported above tree branches. Coloured in green outgroup terminals; in blue, sequences identified as *Vermiliopsis labiata* in public repositories; and in red the specimen from cova des Bastons.

Table S1. The primers used in study together with oligonucleotide sequence and references.

Marker	Primer	Reference	Oligonucleotide sequence
COI	LCO1490	Folmer <i>et al.</i> (1994)	GGTCAACAAATCATAAAGATATTGG
	HCO2198	Folmer <i>et al.</i> (1994)	TAAACTTCAGGGTGACCAAAAAATCA
	jgLCO1490	Geller <i>et al.</i> (2013)	TITCIACIAAYCAYAARGAYATTGG
	jgHCO2198	Geller <i>et al.</i> (2013)	TAIACYTCIGGRTGICCRAARAAYCA
	HyCOF190	Sun <i>et al.</i> (2017)	TCNRTNTTKACDGTKACATGCTA
	HyCOR886	Sun <i>et al.</i> (2017)	ACCCYATYATHCCRATAGARCACAT
cytB	Cytb 424F	Boore & Brown (2000)	GGWTAYGTWYTWCCWTGRGGWCARAT
	cobr825	Burnette <i>et al.</i> (2005)	AARTAYCAYTCYGGYTTRATRTG
28S	28SC1'	Lê <i>et al.</i> (1993)	ACCCGCTGAATTTAAGCAT
	28SD2	Lê <i>et al.</i> (1993)	TCCGTGTTTCAAGACGG

Table S2. PCR thermal profiles for each primer pair.

Primers	PCR thermal profiles
LCO1490/HCO2198	4min 95°C, 35x (40s 94°C, 40s 48°C, 60s 72°C), 6min 72°C
jgLCO1490/jgHCO2198	4min 95°C, 35x (40s 94°C, 40s 48°C, 60s 72°C), 6min 72°C
HyCOF190/HyCOR886	5min 95°C, 35x (30s 94°C, 30s 51°C, 30s 72°C), 2min 72°C
Cytb 424F/cobr825	4min 95°C, 35x (40s 94°C, 40s 50°C, 60s 72°C), 6min 72°C
28SC1'/28SD2	60s 96°C, 29x (30s 95°C, 60s 62°C, 60s 72°C) 7min 72°C

References

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