

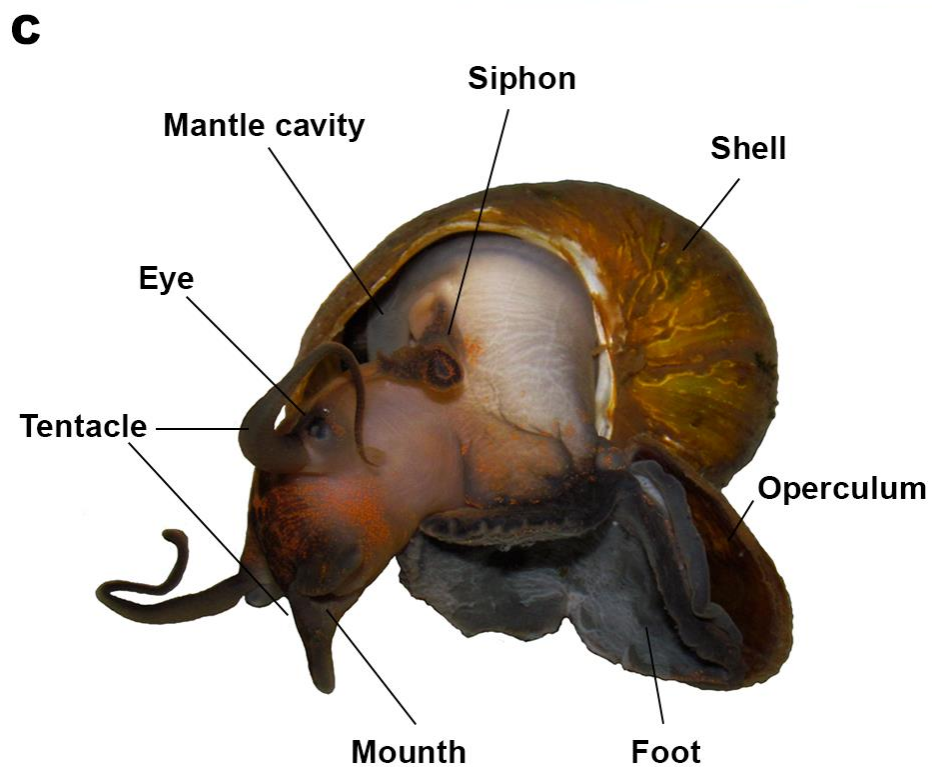
First morphological and molecular identification of the cercaria of *Stomylotrema vicarium*
from the endemic apple snail *Pomacea americanista*

Supplementary Material

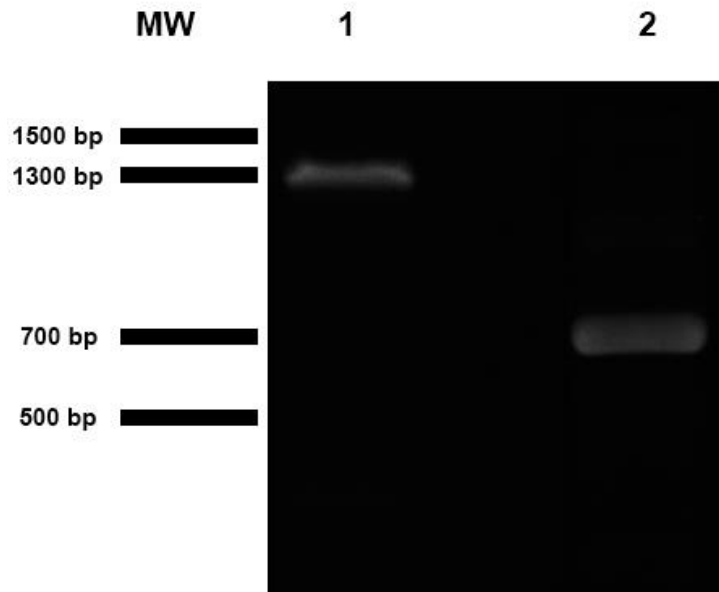
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Supplementary Figure 1. The host *Pomacea americanista*. **A.** Satellite view (Google Earth Inc.) from the specimen's sample sites (Bonito Stream, Misiones rainforest, Argentina). **B.** Alive specimens of *Pomacea americanista* in the aquarium. **C.** External morphology of a live specimen.



Supplementary Figure 2. Representative agarose gel (1.2 %) containing the PCR amplification products for the 28S rDNA (lane 1) and ITS1 (lane 2). Total DNA from intramolluscan stages isolated from the digestive gland of *P. americanista* was used as template. Lane 1: amplicon of ~1300 bp that includes a whole region of the gene that encodes for the 28S rRNA. Lane 2: amplicon of ~700 bp that includes the complete non-coding region of the Internal Transcribed Spacer (ITS1) placed on between the 18S rDNA and 5.8S rDNA genes.

Supplementary Figure 3. Trematode sequences isolated from the apple snail *P. americanista*

A. rRNA 28S sequence

>MW480895 *Stomylotrema vicarium* isolate DG_Pam01 large subunit ribosomal RNA gene, partial sequence.

TGAACAGGGACAAGCCCAGCACCGAAGCCTGGGACCCTTTGGCCATTGGCAATGGGGTTTCAGGTTCGATCCGGGTA
GTCACTGCTCCACCCTAAGTCCATTAATGAGTACGGTATTATGGACATGGCCCGAAGAGGGTGAAAGGCCCGTGGG
GGTGGAGTGCAGGTAGGCCAGTACTGCCTGGAAGGACCTTGGAGTCGGGTTGTTTGTGAATGCAGCCCAAAGTGG
GTGGTAAACTCCATCCAAGGCTAAATACAAGCACGAGTCCGATAGCGAACAAGTACCGTGAGGGAAAGTTGAAAA
GTACTTTGAAGAGAGAGTAAACAGTGCCTGAAACCGGTCAGAGGTAAGCAGGTGGAGTTGAACTGCAAGCTCTGG
GAATCAACTGGTGAGATTGGTTTGGCTTGGTTGAATCGGTTGGGCCTTGAAGTCTGTGTAGCAGCAGGCCTCTGT
TTTTGACAGAGGTGCGGATACACTTGTCAAGTGTGTGCGCTTCGGGTGCTCTCCGGACCGGCTCGCCAGTGCCT
TTCTCAGAGTGGTCACCACGACCGGCACTGCTGTCTGGCTGTTGCGGTTAAACCGGCTTTGCATTGTCCTTGTGGCTC
TGCTTTGCCGGGATGGCAGGTAGCCCGTTGGCTTGTGTTGTAGCTTGCTACAGGCTTTCCGGTCTCCGGGTGTAATCAG
CTGACCGCATCAGTTCTGTGCAGCGTGTGCGGAGACGGCGGCTCGTGTGCGTGCCTGTTCCGGCTGGCGTG
TTCGGGTTTGGTCACTATGTTGCCTGTTTCGGCAGGCCTGGTGATGGCCCGGGCTCGTTCGGTTCGGCGGTTGCGTGC
GTGGCGCGAAAGCAGGGGCCCATAGTCTGTGGTGTAGTGGTAGACTATCCACCTGACCCGTCTTGAAACACGGACC
AAGGAGAGTAACATGTGCGCAAGTCATTGGGCACTACGAAACCTATAGGCAAAGTGAAAGTGAAGGTCTGGCTTGT
CCAGACTGAGGTGGGATCCTGTCGTTTCTCATGCGTGGTACCGCCAAGCTTCGAGCGGCAGGCGCAGCACCAGGCC
GTCCCATGACAAATGTCCAACGGCAATAACAGTCGGGGCGGAGCATGAGCGTACATGTTGAGACCCGAAAGATG
GTGAACTATGCTTGCAGGTTGAAGCCAGAGGAACTCTGGTGGAGACCGAAGCGGTTCTGACGTGCAAATCGA
TCGCCAGACGTGAGTATAGGGGCGAAAGACTAATCGAACC

B rRNA 18S-ITS 1-rRNA 5.8S sequence

>MW481318 *Stomylotrema vicarium* isolate DG_Pam01 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, complete sequence; and 5.8S ribosomal RNA gene, partial sequence.

TGGTAAGTGCAAGTCATAAGCTTGGCGCTGATTACGTCCCTTGCCCTTTGTACACAYCGCCCGTCGCTACTACCGATTG
AATGGTTTAGCAAGGTCTTCGGATTGGCGTCAATTGTATTTGCTTCGGCAGCTCGACCGGTGCTGAGAAGCCGACGAA
TCTTGATCATTGGAGGAAGTGGAAGTCGTAACCACATTTCCGTAGGTGAACCTGCGGAAGAAGCATTACCGTATTC
CCCCCTCCCGAAAGCTGTACCTGGTCCTAATGGGCCTACGTACAGCTTCTACTCTATTCCGGTTCGTTTACCCTTCT
AAAGCTATCGGGGTGCTTGCTACCTTGTGGTAGTCAGTCCACTCTGGAAGTGACAGGTTGTGCTGACCAAATCAGTG
CTAGGCTTAATGAATGGTGTCTCAGCTACGGCTAGCCATCGCCCCCTAGCTTCCCTGTTCTGTA AAAACCGTTAAAG
TGGTACATCTGTGCCATTGCCTCAACATGCACCCGGTGTGAACTGGACTGCATGTGCAGTCGCCTGGCGGTGCCTTA
TCCCGGGCTGGACTGAGAAACCATTGGGTGTTTCAGGAAACTGAATGCTCAGTGTAGTACA ACTCTGATCGGTGGAT
CACTCGGCTCGTGTGTCGATGAAGAGCGCAGC