

Accepted Manuscript

Annual variability of infection with *Cardicola forsteri* and *Cardicola orientalis* in ranched and wild southern bluefin tuna (*Thunnus maccoyii*)

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PII: S0044-8486(17)31951-8

DOI: <https://doi.org/10.1016/j.aquaculture.2017.12.042>

Reference: AQUA 632996

To appear in: *aquaculture*

Received date: 30 September 2017

Revised date: 17 December 2017

Accepted date: 26 December 2017

Please cite this article as: L. Neumann, A. Bridle, M. Leef, B. Nowak , Annual variability of infection with *Cardicola forsteri* and *Cardicola orientalis* in ranched and wild southern bluefin tuna (*Thunnus maccoyii*). The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Aqua(2017), <https://doi.org/10.1016/j.aquaculture.2017.12.042>

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Annual variability of infection with *Cardicola forsteri* and *Cardicola orientalis* in ranched and wild southern bluefin tuna (*Thunnus maccoyii*)

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Suggested running title: Annual variability of SBT infection with blood flukes

Significance:

- Validation of a hydrolysis probe-based qPCR assay for the detection and quantification of *C. orientalis*, *C. forsteri*, and *C. opisthorchis* ITS2 rDNA
- First detection of *C. orientalis* in wild SBT
- Significant annual variability in detection of *Cardicola forsteri* and *Cardicola orientalis* in ranched SBT heart from 2013, 2014, and 2015 harvests

This research was supported by John Bicknell Scholarship.

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