

***Szidatitrema yamagutii* n. sp. (Digenea: Cyclocoelidae: Ophthalmophaginae) from the bearded barbet, *Lybius dubius* (Capitoniidae), and the white-necked myna, *Streptocitta albicollis* (Sturnidae), that died at the Audubon Zoo in New Orleans, Louisiana, U.S.A.**

NORMAN O. DRONEN,¹ THOMAS M. CRAIG,² & ELIZABETH E. HAMMOND³

¹Laboratory of Parasitology, Department of Wildlife & Fisheries Sciences, Texas A&M University, 2258 TAMU, College Station, Texas 77843-2258, U.S.A. E-mail: n-dronen@tamu.edu

²Department of Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, Texas, 01984, U.S.A. E-mail: tcraig@cvm.tamu.edu

³Audubon Zoo, 6500 Magazine Street, New Orleans, Louisiana, 70118, U.S.A. E-mail: bhammond@AudubonInstitute.org

Abstract

Szidatitrema yamagutii n. sp. was found in the air sacs and body cavities of 2 bearded barbets, *Lybius dubius*, and a white-necked myna, *Streptocitta albicollis*, that died at the Audubon Zoo, New Orleans, Louisiana between June, 2000 and April, 2005. The new species can be distinguished from *Szidatitrema philomachii* and *Szidatitrema vogeli*, the only species currently assigned to this genus, by having a smaller egg size (80–105 by 40–55 compared to 117–126 by 54–72 and 110 by 50, respectively) and the testes of *S. yamagutii* n. sp. are less obliquely positioned relative to each other. *Szidatitrema yamagutii* n. sp. further differs from *S. philomachii* by lacking an oral sucker and having larger testes (anterior testis 405 by 375 compared to 270 by 210; posterior testis 435 by 370 compared to 225 by 210) and from *S. vogeli* by having a shorter cirrus sac (345 compared to 554), smaller testes (anterior testis 405 long compared to 700; posterior testis 435 long compared to 500), a smaller ovary (220–330 wide compared to 400), and a larger postovarian space (approximately 10% of body length compared to 6%). This new species was likely introduced into the Audubon Zoo through the importation of species of Old World birds.

Key words: Audubon Zoo, bearded barbet, Cyclocoelidae, Digenea, Louisiana, *Lybius dubius*, New Orleans, Ophthalmophaginae, *Ophthalmophagus mertensis*, *Streptocitta albicollis*, *Szidatitrema yamagutii* n. sp., Trematoda, U.S.A., white-necked myna