

A New Avian Cestode, *Raillietina (Skrjabinia) hiyodori* n.sp.

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Key words: avian cestode, *Raillietina (Skrjabinia) hiyodori* n.sp. brown-eared bulbul, morphology.

Introduction

A new cestode belonging to the subgenus *Skrjabinia* of the Genus *Raillietina* Fuhrmann 1920 is described.

Materials and Methods

Four cestode specimens were obtained from the small intestine of the brown-eared bulbul, *Hyppipetes amaurotis amaurotis*, in Oita City, Oita Prefecture on Jan. 22, 1987. The specimens were fixed in 70% alcohol after being pressed between two glass slides, stained with Heidenhain's hematoxylin for 1 day, destained with 1% hydrochloric acid in 70% alcohol, dehydrated in alcoholic series and mounted in Canada balsam. All measurements are given in mm.

Description

Strobila 62–76 in length and 2.0–3.0 in maximum width. All proglottides broader than long. Unstained scolex round, measuring 1.0–1.05 long and 1.12 wide, with retractile rostellum 0.08 by 0.075 in size, armed with 2 rows of hammer-shaped about 200 hooks, each hook measuring 0.0175 long. Suckers round, 0.20–0.21 in diameter, armed with 5 rows of minute hooks on their peripheries, each hook 0.006–0.007 long. Neck absent. Genital pores situated slightly anterior to the middle of each proglottid margin irregularly on either side. Testes 25–27 in number, 11–12 on poral side

and 14–15 on aporal side of each proglottid, measuring 0.0325–0.0425 by 0.035. Cirrus pouch pyriform, 0.07 long and 0.04–0.05 wide. Vagina opens posterior to male genital opening. Ovary bilobed, 0.212–0.225 by 0.050–0.063, located in the middle of each proglottid. Vitelline gland compact, measuring 0.10–0.12 by 0.05–0.07, situated posterior to ovary. Seminal receptacle 0.095 by 0.045. Egg capsules occupy the whole space of gravid proglottides. Each capsule contains one egg. Eggs spherical, 0.070–0.078 by 0.063–0.068. Onchosphere spherical, 0.045–0.050 in diameter; embryonic hooks 0.02 long.

Discussion

Raillietina (Skrjabinia) hiyodori n.sp. resembles *R. (S.) bolivari*, *R. (S.) bonini* and *R. (S.) c. cadarachensis*. *R. (S.) bolivari* (Lopez-Neyra, 1929, Sawada, 1964), however, has 4 suckers armed with 4 rows of hooks each and 40 to 45 testes, while the present species has those armed with 5 rows of hooks and 25 to 27 testes. In *R. (S.) bonini* (Lopez-Neyra, 1934, Sawada, 1964), rostellar hooks, 0.011 in length and onchospheres, 0.036 in diameter, while in the present species, rostellar hooks, 0.017 in length and onchospheres, 0.045 to 0.059 in diameter. In *R. (S.) c. cadarachensis* (Sawada, 1964), testes, 20 to 25 in number, onchospheres, 0.02 in diameter and embryonic hooks, 0.01 to 0.012 in length, while in the present species, testes, 25 to 27 in number, onchospheres, 0.045 to 0.05 in diameter and embryonic hooks, 0.02 long.

Host: *Hyppipetes amaurotis amaurotis*.

Habitat: Small intestine.

Locality and date: Oita City. January 22, 1987.

2-27 Minami-matogahama, Beppu City, Oita 874, Japan

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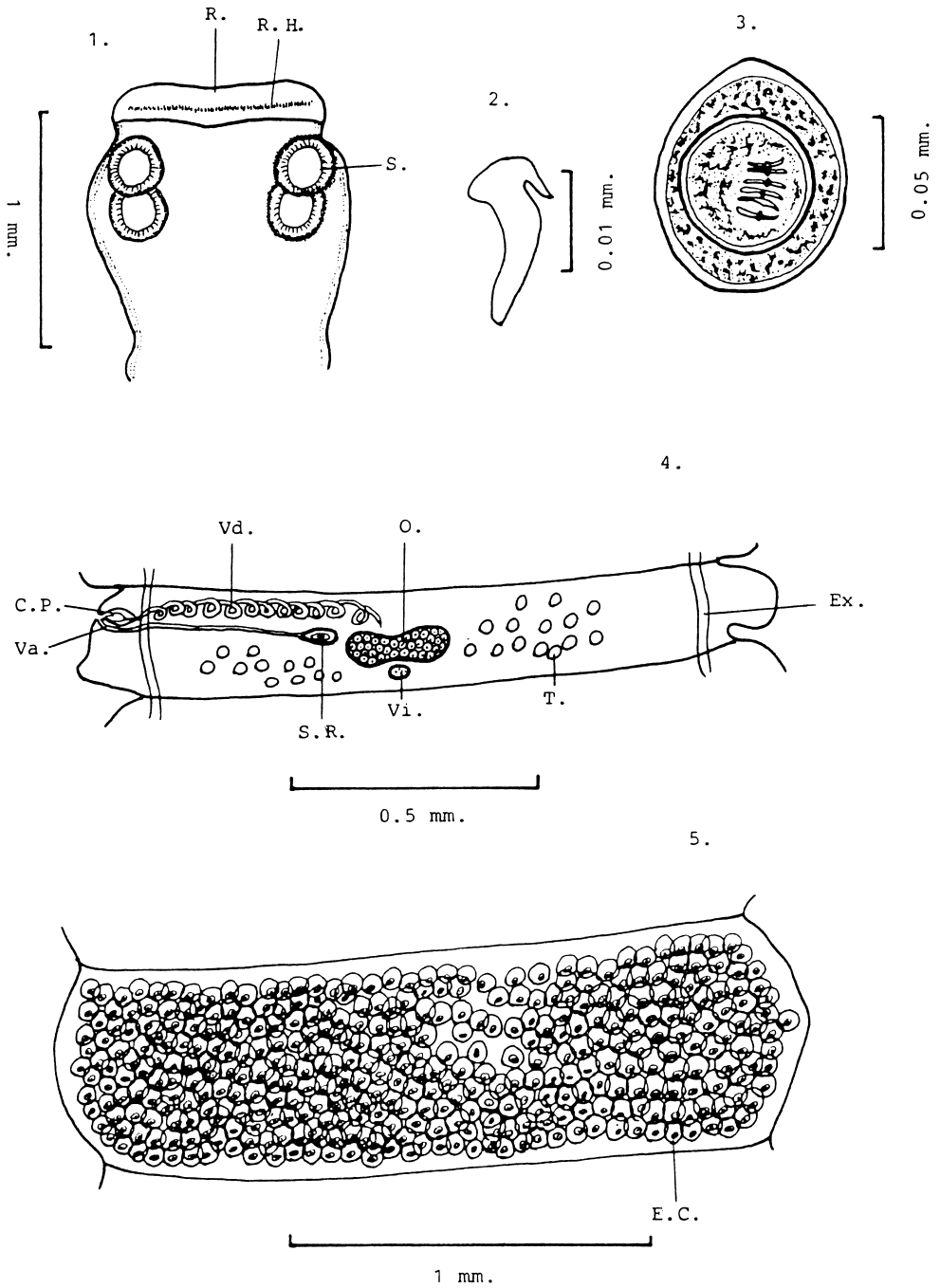


Fig. 1. Scolex

Fig. 2. Rostellar hook

Fig. 3. Egg

Fig. 4. Mature proglottid

Fig. 5. Gravid proglottid

Abbreviations: C.P.: cirrus pouch, E.C.: egg capsule, Ex.: excretory canal, O.: ovary, R.: rostellum, R.H.: rostellar hook, S.: sucker, S.R.: seminal receptacle, T.: testis, Va.: vagina, Vd.: vas deference, Vi.: vitelline gland.

Type specimen: Holotype deposited in Meguro Parasit. Museum, MPM Coll. No. 19528.

Acknowledgements

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