

***Raillietina (Raillietina) toyohashiensis* n. sp.  
from a Guinea Fowl at Toyohashi Zoo**

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A number of specimens were recovered from the intestine of a guinea fowl, *Numida galeata*, bred with *Gallus gallus domesticus* and *Meleagris gallopavo* at Toyohashi Zoo, Toyohashi City, Aichi Prefecture, Japan, on October 12, 1971. They appear to belong to a new species for which the name *Raillietina (Raillietina) toyohashiensis* is proposed.

**Diagnosis-Davaineidae:** The length of specimens is about 90 to 110 mm, and its maximum width about 1.8 to 2.0 mm. The scolex has a size of 0.189 to 0.210 mm long and 0.181 to 0.196 mm wide. The oval suckers, which are armed with several rows of spines, measure about 0.098 by 0.056 mm. The rostellum measures 0.035 to 0.042 mm in diameter, and is armed with about 89 to 95 hooklets of typical Davaineid shape, 0.007 mm long and arranged in a double row. The proglottides are very numerous and all except the senile ones are broader than long. Throughout the greater part of the strobila they are extremely short, but their length increases considerably in the gravid condition. The genital pores are unilateral and situated slightly anterior to the middle of the proglottid margin. The cirrus-sac is somewhat pyriform, with a very thick muscular wall. It measures about 0.035 mm long and 0.018 mm wide. The vagina runs posterior to it and is almost straight. The testes lie on both sides of the female glands, 18 to 23 in number. Of these about 6 to 8 lie on the poral side and 12 to 15 on the aporal side. The vas deferens is slightly convoluted, but its general course is parallel to the vagina. The

ovary is lobate, measuring 0.025 to 0.042 mm by 0.053 mm. The vitelline gland is located just behind the ovary, measuring 0.014 to 0.018 mm by 0.018 to 0.021 mm. The uterus gives rise to 107 to 120 egg-capsules which extend laterally beyond excretory vessels. Each egg-capsule contains 3 to 4 eggs; the egg measures 0.035 mm in diameter. The contained spherical onchosphere measures 0.018 mm in diameter; embryonic hook 0.007 mm in length.

**Discussion**

The present species is most closely related to *Raillietina (Raillietina) somalensis* Sawada, 1971 reported from *Acryllium vulturinum* in Somalia, but differs from it in the smaller size of the sucker, the smaller number of the rostellar hooks, smaller size of the cirrus-sac and the greater number of the eggs in an egg-sac.

Host: *Numida galeata*

Habitat: Small intestine

Locality and date: Toyohashi Zoo, Aichi Prefecture, Japan. October 26, 1971

Type depository: Biological Laboratory, Nara University of Education, Nara, Japan

**References**

- 1) Sawada, I. (1965): On the Genus *Raillietina* Fuhrmann 1920 (II) J. Nara Gakugei Uni. 18: 5-38.
- 2) Sawada, I. (1971): Two new avian cestodes, *Raillietina (Raillietina) somalensis* and *Cotugnia shohoi* from *Acryllium vulturinum* in Somalia. J. J. Zool. 16 (3): 131-134.

豊橋動物園産ホロホロ鳥の一新条虫 *Raillietina* (*Raillietina*)  
*toyohashiensis* n. sp.

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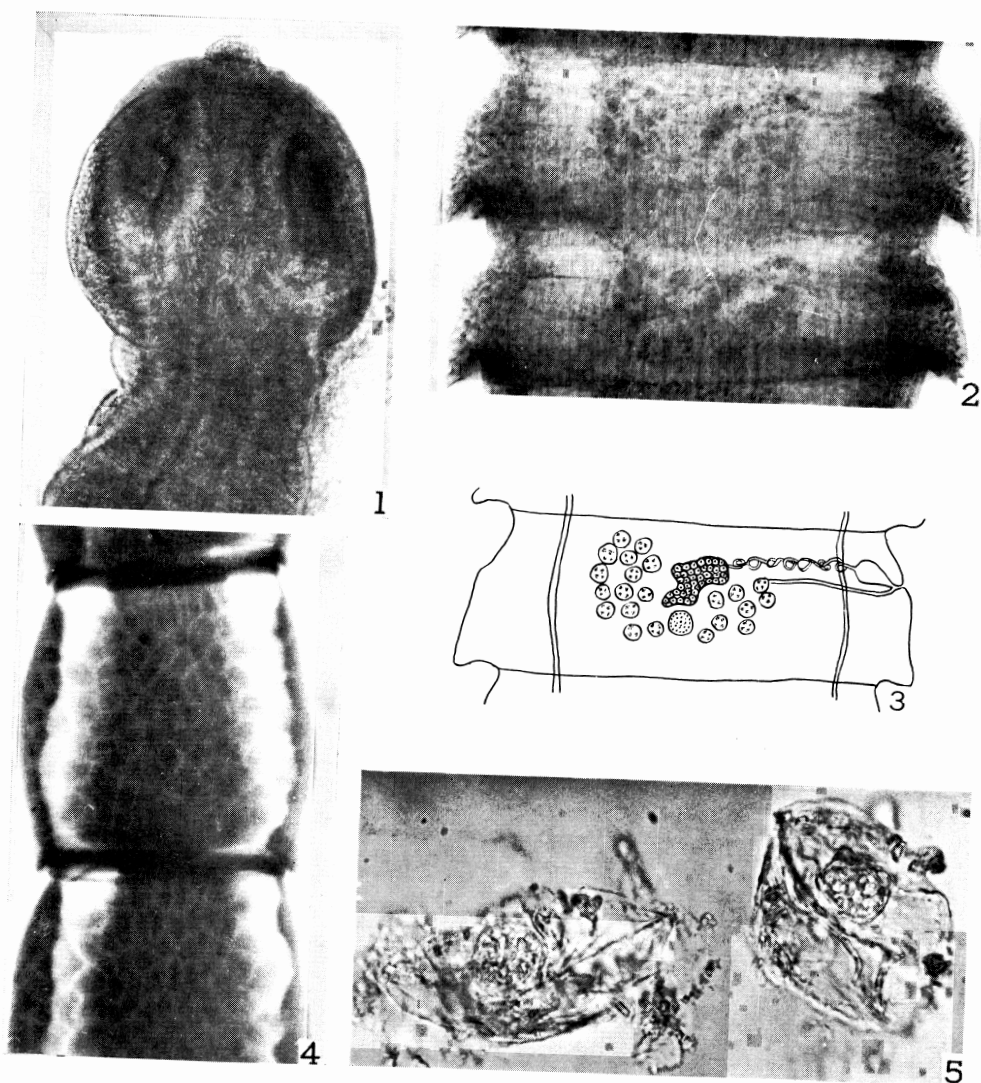
(豊橋動物園)

1971年10月12日豊橋動物園内で七面鳥および鶏と共に飼育されていたホロホロ鳥 *Numida galeata* を剖検したところ、小腸内に多数の条虫が寄生していた。各部の形態を詳細に調べた結果、*Raillietina* 属に属する新種であることが判明したので *Raillietina* (*Raillietina*) *toyohashiensis* n. sp. なる学名をつけた。

虫体の全長は90~110 mm、最も幅広い個所は受胎片節付近で1.8~2.0 mm。吸盤は楕円形で周辺部に数列の小鉤が環生する。額嘴は直径が0.035~0.042 mmで、0.007 mmの額嘴鉤が2列に環生している。生殖孔は一側縁で各片節の中央よりやや前方に開孔する。辜丸の数

は18~23個。老熟片節では卵嚢が1片節あたり107~120個あり、一卵嚢あたり3~4個の虫卵を入れている。虫卵の大きさは0.035 mm、六鉤幼虫は球形で0.018 mmの直径を有し、胚鉤の長さは0.007 mm。

本種は先に著者がソマリアのホロホロ鳥 *Acryllium vulturinum* から発見した *Raillietina* (*R.*) *somalensis* に類似しているが、吸盤が小さいこと、額嘴鉤の数が少ないこと、陰茎囊の小さいことおよび1卵嚢あたりの卵の数が多きことなどから *R. (R.) somalensis* と異なるので新種とした。



Figs. 1-5 *Raillietina (Raillietina) toyohashiensis* n. sp.  
 1. Scolex ( $\times 180$ )  
 2. Mature proglottides ( $\times 65$ )  
 3. Outline tracing of mature proglottid  
 4. Senile proglottides ( $\times 60$ )  
 5. Eggs containing oncospheres ( $\times 500$ )