

*Schizamphistomoides prescotti* n. sp.

(Trematoda : Paramphistomidae)

from *Hardella thurgi* (Gray)

[*Schizamphistomoides prescotti* n. sp. (Trematoda : Paramphistomidae)  
provenant d'*Hardella thurgi* (Gray)]

by Vinod AGRAWAL

**Abstract**

*Schizamphistomoides prescotti* n. sp. has been described from *Hardella thurgi*.

**Résumé**

Description de *Schizamphistomoides prescotti* n. sp. récolté chez *Hardella thurgi*.

Family-*Paramphistomidae* Fiscoeder, 1901

**SCHIZAMPHISTOMOIDES PRESCOTTI** n. sp.

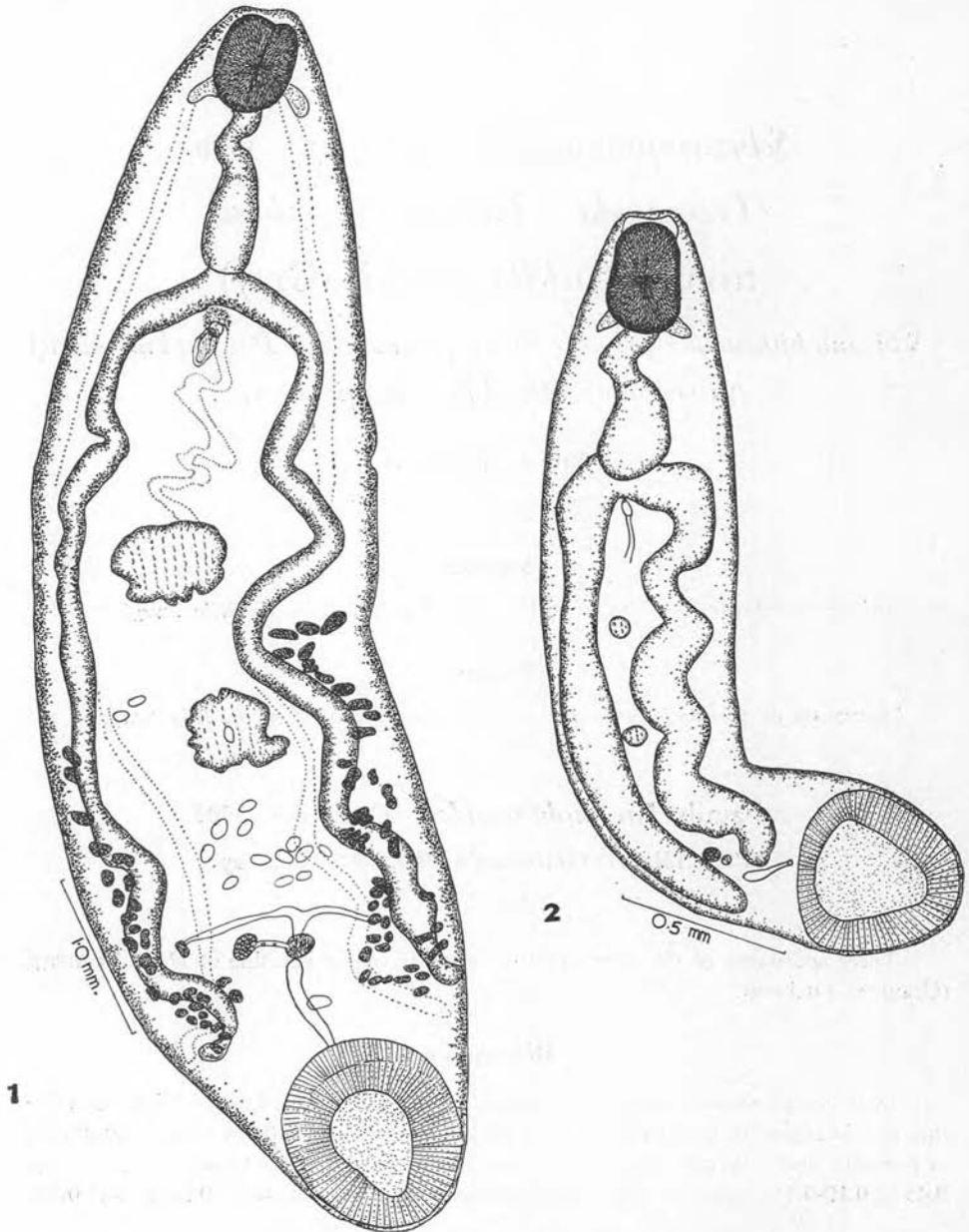
(Fig. 1-2)

Three specimens of this form were collected from the intestine of *Hardella thurgi* (Gray). at Lucknow.

**Description**

Body elongated, subcylindrical, aspinose, rounded extremities with a slight constriction in mid region of acetabulum, 2.51-7.40 × 0.58-2.1 mm. with two small diverticula at posterior end. Prepharynx and pharynx absent; oesophagus broad, sinuous, 0.16-0.45 × 0.10-0.15 mm. in size; oesophageal bulb pear shaped, 0.27-0.60 × 0.22-

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*Schizamphistomoides prescottii* n. sp.

FIGS. 1-2. FIG. 1. — Dorsal view. FIG. 2. — Immature. Dorsal view

0.30 mm. in size. Intestinal caeca, narrow, sinuous terminating in front of acetabulum. Acetabulum large terminal,  $0.46-1.5 \times 0.46-1.0$  mm. in size with a ventral aperture at posterior extremity of body.

Genital pore median, lying below intestinal bifurcation at 0.82-1.90 mm. from anterior extremity.

Excretory pore median situated dorsally, in front of acetabulum. Excretory vesicle small, oval, posterior to ovary.

Lymphatic system consisting of three pairs of longitudinal ducts which extend from anterior region of body upto termination of intestinal caeca.

Testes entire or slightly lobed, broader than long, tandem, intercaecal in mid third of body. Anterior testis,  $0.05-0.50 \times 0.06-0.70$  mm. in size at 1.18-3.15 mm. from anterior extremity. Posterior testis, larger or smaller than anterior testis,  $0.06-0.48 \times 0.07-0.60$  mm. in size at 1.0-3.0 mm. from hind end of body. Cirrus sac pretesticular, postbifurcal and median,  $0.056-0.21 \times 0.03-0.08$  mm. in size. Vesicula seminalis bipartite completely filling cirrus sac; pars prostatica narrow; ejaculatory duct short, opening at genital pore. A large number of prostate gland cells fill up entire space in cirrus sac round vesicula seminalis and pars prostatica.

Ovary entire, oval, postequatorial, submedian about midway between posterior testis and acetabulum,  $0.05-0.15 \times 0.03-0.25$  mm. in size at 0.72-1.9 mm. from hind end. Oviduct arises from posterior end of ovary and opens at oötype. Vitellaria small, follicular, numerous, extending from hind end of posterior testis up to termination of intestinal caeca. They are mostly extracaecal but enter the caecal field at some place especially in postovarian region. Two transverse vitelline ducts unite together to form a yolk reservoir opening at oötype. Diffuse Mehli's gland median, oval toward left side of ovary,  $0.04-0.12 \times 0.04-0.15$  mm. in size. Uterus transversely coiled between acetabulum and testes, slightly sinuous in median line, passing dorsal to testes opening at genital pore. Eggs oval, non operculated,  $0.09-0.12 \times 0.05-0.08$  mm. in size.

### Discussion

No form of this genus hitherto has been described from India. Five species of the genus *Schizamphistomoides* from reptiles viz. *S. spinulosum* (Looss, 1901) Stunkard, 1925; *S. constrictus* Price, 1936; *S. resupinatus* Caballero, 1940; *S. tabascensis* Caballero et Sokoloff, 1934 and *S. chelonei* Gupta, 1961 have been described. The present form differs from *S. spinulosum* in the arrangement and extension of vitellaria, in the position of genital pore, in its maximum width being anterior to the acetabulum instead of level with it, in having testes postequatorial instead of pre equatorial, and in having very sinuous intestinal caeca. It differs from *S. constrictus* in having lobed testes in mid third of body instead of globular in the postequatorial region, in having sinuous intestinal caeca instead of simple caeca terminating slightly posterior to ovary and in the position of excretory pore. It differs from *S. resupinatus* in not having pre-equatorial testes in the same level and from *S. tabascensis* in not having testes one

behind the other in the oblique position. The present form is closely allied to *S. chelonei* in the general topography of organs but differs from it in the extent of vitellaria from hind end of posterior testis instead of from level of posterior end of anterior testis and not intruding into post ovarian region, in having the genital pore postbifurcal instead of anterior to it and in having testes apart from each other instead of close together.

Accordingly it is regarded as new with the specific name *S. prescotti* n. sp.

The new species is named in honor of Dr. G. W. Prescott, Michigan.

State University, Michigan, U.S.A.

Host: *Hardella thurgi* (Gray).

Location: Intestine.

Locality: Lucknow.

#### KEY TO THE SPECIES OF THE GENUS *Schizamphistomoides* Stunkard, 1925

- |   |                       |
|---|-----------------------|
| 1. Testes preequatorial, in the same level .....                | <i>S. resupinatus</i> |
| Testes equatorial or postequatorial, one behind the other ..... | 2                     |
| 2. Testes obliquely tandem .....                                | <i>S. tabascensis</i> |
| Testes tandem .....   | 3                     |
| 3. Genital pore extracaecal .....                               | <i>S. chelonei</i>    |
| Genital pore postbifurcal .....                                 | 4                     |
| 4. Testes globular .....  | <i>S. constrictus</i> |
| Testes lobed .....  | <i>S. spinulosum</i>  |

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(Department of Zoology, University of Lucknow, Lucknow. U.P. India)