

Two Reptilian Trematodes from Lucknow.

(Deux Trématodes de Reptiles observés à Lucknow - Indes)

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Résumé

Description de deux espèces de Trématodes de Reptiles observées à Lucknow. Il s'agit pour l'une d'elles d'une espèce nouvelle de *Lecithodendriidae* appartenant au genre *Postorchigenes* Tubangui 1928. Elle a été trouvée dans l'intestin d'*Hemidactylus frenatus* et désignée par l'auteur sous le nom de *P. indica* n. sp. ; deux espèces de *Postorchigenes* sont actuellement connues : *P. ovatus* Tubangui 1928 et *P. macrorchis* Gogate 1939, parasites de lézards. *P. indica* est très proche de *P. macrorchis* par l'extention de ses caeca intestinaux et la position relative des testicules de l'ovaire, mais il s'en distingue par la position oblique ou symétrique des deux testicules dont le bord postérieur peut atteindre les deux-tiers de la longueur du corps, un pore génital proche de la paroi gauche de l'ovaire, l'extension des vitellogènes de l'extrémité postérieure du pharynx à la partie moyenne de l'ovaire, et l'existence d'un prépharynx distinct. *P. indica* n. sp. diffère de *P. ovatus*, parasite d'*Hemidactylus frenatus*, par l'extension des caeca, la structure et la position de la poche du cirre, la position du pore génital, l'extension des vitellogènes, et la disposition symétrique ou oblique des testicules.

La deuxième espèce appartient au genre *Encyclobrephus* Sinha 1949. Elle a été identifiée à l'espèce *E. robustus* Sinha 1949, et trouvée dans l'intestin d'*Hardella thurgi*. L'auteur précise que les deux spécimens récoltés par lui diffèrent néanmoins de l'espèce décrite par Sinha par certains caractères : l'absence d'œsophage et la forme en U et non en spirale de la vésicule séminale.

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Summary

Two species of the genera *Postorchigenes* Tubangui 1920, from the intestine of *Hemidactylus frenatus*, and *Encyclobrephus* Sinha 1949, from the intestine of *Hardella thurgi*, are recorded at Lucknow. One of these is new for science.

Family LECITHODENDRIIDAE Odhner, 1911

POSTORCHIGENES INDICA N. SP.

(Fig. 1)

Numerous specimens were collected from the intestine of *Hemidactylus frenatus* (Schlegel) from Lucknow.

Description: Body elongated, spinose, rounded at extremities, 2.07 to 2.73 mm. long by 1.02 to 1.21 mm. wide. Oral sucker subcircular, 0.10 to 0.13 mm. long by 0.12 to 0.16 mm. wide. Ventral sucker circular, smaller than oral sucker, pre-equatorial, close or away from ovary, 0.10 to 0.11 mm. long by 0.08 to 0.11 mm. wide at 0.74 to 0.87 mm. from anterior extremity. Prepharynx distinct; pharynx muscular, 0.05 to 0.06 mm. long by 0.06 to 0.10 mm. wide; esophagus long, tubular, straight or slightly curved, about 0.06 to 0.24 mm. long; intestinal caeca sinuous, broad, close to lateral margins of body, overlapping completely or partially testes, swollen at posterior end extending upto 0.46 to 0.64 mm. in front of posterior end of body; right cecum little longer than left but difference not pronounced.

Excretory bladder y shaped; excretory pore at posterior end of body.

Genital pore median or lateral to ovary at 0.71 to 0.79 mm. from anterior extremity.

Testes oval or round, subequal, symmetrical or obliquely opposed, postacetabular in middle third of body or preequatorial. Right testis, 0.55 to 0.57 mm. long by 0.43 to 0.49 mm. wide at 0.84 to 1.29 mm. from anterior extremity. Left testis, 0.44 to 0.61 mm. long by 0.38 to 0.57 mm. wide at 0.83 to 0.86 mm. from anterior extremity. Cirrus pouch elongated, lying closely on left side of ovary and extends from genital pore to a little anterior or overlapping anterior border of left testis, 0.535 to 0.740 mm. long by 0.12 to 0.17 mm. wide. Vesicula seminalis consists of a basal sac like part and an anterior part having two or three coils; latter surrounded by a large number of prostate gland cells and continued forward into a narrow tubular ejaculatory duct, 0.10 to 0.12 mm. long opening at genital pore.

Ovary entire, spherical or oval, on left side of body between intestinal bifurcation and right testis, 0.250 to 0.333 mm. long by 0.26 to 0.30 mm. wide at 0.525 to 0.670 mm. from anterior extremity. Receptaculum seminis not observed. Oviduct arises from ovary at about its median side and opens at oötype. Vitellaria numerous, follicular, extending transversely across entire body between hind end of pharynx and

mid region of ovary. Two oblique vitelline ducts meeting posterior or lateral to ovary, forming a yolk reservoir at junction. Uterus arises from hind end of oötype, occupying posterior half of body, opening anteriorly at genital pore. Eggs oval, non operculated, 0.010 to 0.0125 mm. long by 0.005 to 0.0051 mm. wide.

HOST : *Hemidactylus frenatus* (Schlegel).

LOCATION : Small intestine.

LOCALITY : Lucknow.

Discussion : The présent form is referred to the genus *Postorchigenes* Tubangui, 1928 of which two species *P. ovatus* Tubangui, 1928 and *P. macrorchis* (Syn. *Palitrema macrorchis*) Gogate, 1939 are know from lizards. *P. indica* n. sp. closely resembles *P. macrorchis* in the extension of intestinal caeca and in the relative position of testes and ovary. However *P. indica* n. sp. differs from it in having symmetrical or obliquely opposed testes extending upto 2/3rd of body length from the posterior end, a median genital opening close to left side of ovary, in the extension of vitellaria from hind end of pharynx to mid region of ovary and in the possession of distinct prepharynx. *P. indica* n. sp. differs from *P. ovatus* of *Hemidactylus frenatus* in the extension of intestinal caeca, in the structure and position of cirrus pouch, in the position of genital pore, in the extension of vitellaria and in having testes symmetrical or obliquely opposed. It is accordingly regarded as new with the specific name *P. indica* n. sp.

KEY TO THE SPECIES OF THE GENUS *Postorchigenes* Tubangui, 1928

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| 1. Intestinal caeca extend a little anterior to hind end of testes | <i>P. ovatus</i> Tubangui, 1928. |
| Intestinal caeca extend a little anterior to hind end of body | 2. |
| 2. Genital pore over lapping the left testis | <i>P. macrorchis</i> Gogate, 1929. |
| Genital pore lying anterior to left testis | <i>P. indica</i> n. sp. |

Family *PLAGIORCHIIDAE* Luhe, 1901 emend. Ward, 1917.

ENCYCLOBREPHUS ROBUSTUS SINHA, 1949

(Fig. 2)

Only two specimens were collected from the intestine of a fresh water tortoise, *Hardella thurgi* (Gray.) from Lucknow.

Description : Body elongated, spinose with rounded extremities, 2.05 to 2.72 mm. long by 0.70 to 0.87 mm. wide. Oral sucker oval, 0.17 to 0.20 mm. long by 0.175 to 0.215 mm. wide. Ventral sucker oval, smaller than oral sucker, preequatorial, 0.10 to 0.18 mm. long by 0.17 to 0.18 mm. wide at 0.60 to 0.85 mm. from anterior extremity. Prepharynx distinct, 0.01 mm. long by 0.01 mm. wide ; esophagus absent ; intestinal caeca simple, wide anteriorly, reaching a little in front of posterior extremity.

Excretory bladder Y-shaped ; excretory pore terminal at posterior end of body.

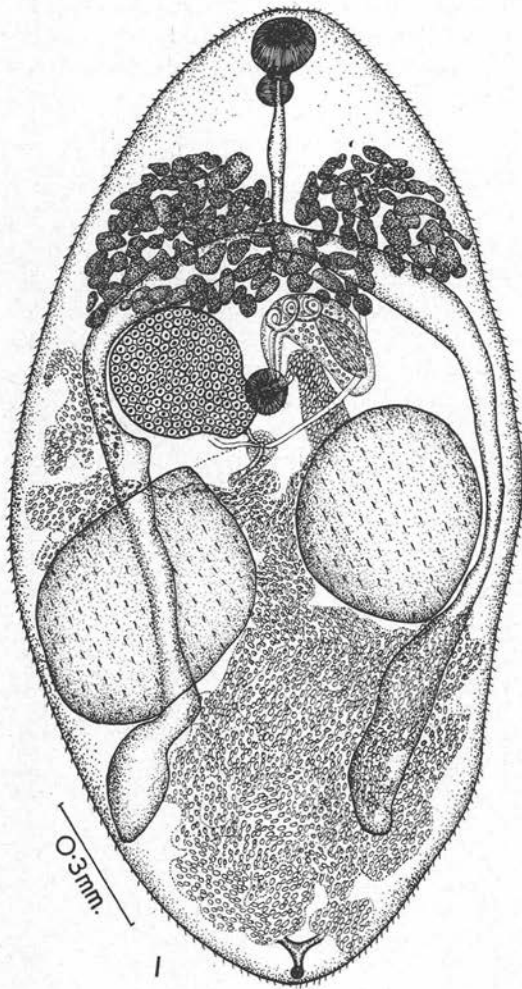


FIG. 1. — *Postorchigenes indica*
n. sp. Ventral view

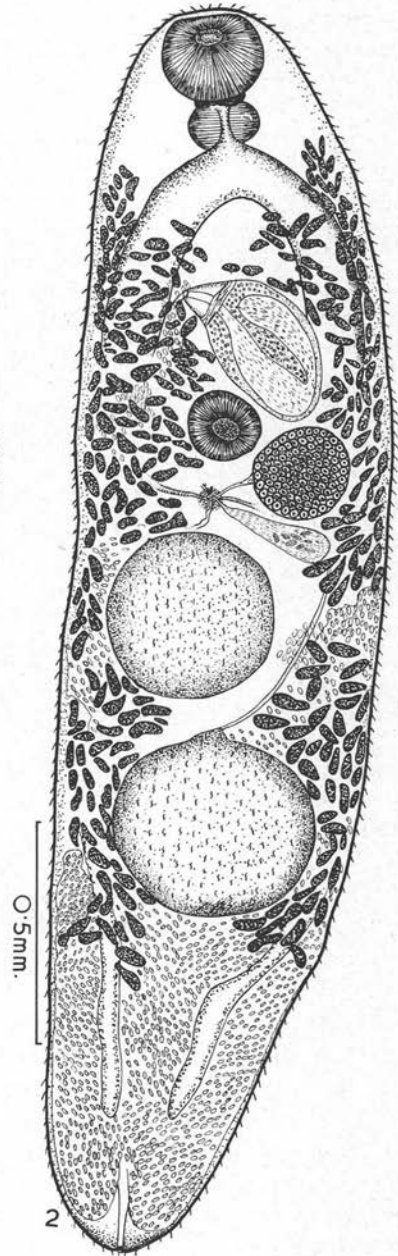


FIG. 2. — *Encylobrephus robustus*
Sinha, 1949. Dorsal view

Genital pore slightly to left of median line in front of ventral sucker at 0.63 mm. from anterior extremity.

Testes spherical or oval, tandem and intercaecal in position. Anterior testis, 0.30 to 0.35 mm. long by 0.38 to 0.39 mm. wide at 0.75 to 1.2 mm. from anterior extremity. Posterior testis larger, close to anterior testis, 0.31 to 0.40 mm. long by 0.38 to 0.43 mm. wide. Cirrus sac oblique, oval lying on right side of ventral sucker, extending from genital pore to anterior end of ovary, 0.27 to 0.28 mm. long by 0.29 to 0.38 mm. wide. Vesicula seminalis U-shaped, tubular, 0.40 to 0.48 mm. long; pars-prostatica short, 0.06 to 0.08 mm. long; ejaculatory duct, narrow, 0.03 to 0.07 mm. long. Entire space within cirrus sac filled with prostate gland cells.

Ovary oval, lying closely on right side of ventral sucker and behind cirrus sac, 0.18 to 0.21 mm. long by 0.21 to 0.22 mm. wide at 0.60 to 0.95 mm. from anterior extremity. Oviduct arises from inner margin of ovary and opens at oötype. Laurer's canal present. Vitellaria follicular extending from pharynx upto hind end of testes or a little posterior to it. They are mostly on lateral sides of body but at some places extend transversely. Uterus arises from oötype and runs backwards, mostly in post testicular region. Metraterm opens at genital pore. Eggs oval, 0.011 to 0.013 mm. long by 0.021 to 0.025 mm. wide.

HOST : *Hardella thurgi* (Gray.).

LOCATION : Intestine.

LOCALITY : Lucknow.

Discussion : The present form belongs to *Encyclobrephus robustus* Sinha, 1949 but differs from it in the absence of esophagus and in having U-shaped vesicula seminalis instead of being coiled in an open spiral. These differences are considered as specific variations.

References

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