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TAXONOMIC EVALUATION OF NEW AMPHIBIAN NEMATODE PARASITES SUBULASCARIS (FREITAS ET. DOBBIN, 1957) FROM RANA CYANOPHLYCTIS

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The genus Subulascaris was erected by Freitas et. Dobbin, 1957 to accommodate. Their species Subulascaris falcaustriformis. Since then, no other species has been added to this genus. A new species is being reported hare with Subulascaris sailuensis n.sp. The worm are transparent and are of inform thickness throughout the length of the body. The anterior ends is well developed inflated cuticle, mouth is surrounded three lips, three teeth are present, buccale capsule is absent, In male with caudal alae with sucker and caudal papillae are nine pair, cloca is subvebtral, spicule are equal in size. The gubernaculums is absent. In female valve is present posterior half of the tail.

Keywords: Rana cyanophlyctis, Nematode Parasites, Subulascaris sailuensis n.sp.

INTRODUCTION:

The five number nematode parasites were collected from the host Rana cyanophlyctis obtained from Sailu, Parbhani District. The genus Subulascaris was erected by Freitas et. Dobbin, 1957 to accommodate Their species Subulascaris falcaustriformis. Later on there is no any species added to this genus. Present species differ from know species which is having the arrangement of their caudal papillae, body measurement and length of spicule.

MATERIAL AND METHOD

During present study five nematode parasites were collected from intestine of the host Rana cuanophlyctis which was accidentally dead. Nematode parasites were fixed in hot 70% alcohol and preserved in fresh 70% alcohol containing 10% glycerine. The worms were cleared in lacto phenol and mounted in glycerin. Drawings were made with help of the

measurements and camera lucida expressed in millimeters.

RESULTS:

Subulascaris sailuensis n.sp.

General Morphology: These parasites are small to median sized females longer than males. The body is cylindrical and tapering at the extremities. The worm are transparent and are of thickness through the length of the body except at the anterior and the posterior ends. The anterior end blunt and the posterior end is pointed. The mouth is surrounded by three poorly developed lips. Thre are three teeth, one on each lips. The buccule is absent. The diameter of the head is 0.05-0.06mm and 0.07-0.08 mm in male and female. The oesophagus is short and muscular throughout its length.it measure about 0.43-0.47mm in male and 0.46-0.48mm in female. The nerve ring is situated at 0.19-0.20mm from the anterior end in the male and 0.20-0.22 mm in the female. The cervical papillae are located in the posterior region of the oesophagus.

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male measure about 10.67-The length and 0.26-0.28mm in 12.45mmin size. The tail is devoid of caudal alae. A sucker is present at 0.90-1.2mm from the tip of the tail. The sessile caudal papillae are in nine pairs of which six pair are preclocal and three pairs postclocal. The pre cloacal papillae are somewhat asymtrical in arrangement. While the papillae of the anterior most pairs are laterial the pair nearest to the cloaca is almost subventral. A single papilla is also present in frount of the cloaca, midventral in position. The almost equal and are poorly spicule cuticularized. The two measure 0.24-0.28 and 0.23-0.27 mm long. The gubernaculums is absent.

Female: The female larger than male measuring about 16.69-17.19mm. in body length and 0.33-0.46mm in width. The valve opens in the posterior half of the body at 7.31-7.30mm from the tip of the tail. The tail is short and curved being 0.25-0.27mm long. The eggs measure 50μ in length and $40~\mu$ in width.

DISCUSSION:

At present worm differ from known species S. falcaustrifirmis (Freitas et. Dobbin, 1957) in the number of single midventral precloacal papilla and two pairs of posteloacals. But in the present form, there are six pairs of precloacals and three pairs post clocaacals. In additation to these there is a single midventral papillae in front of the cloaca. In body measurements and also in the length of the spicule the two forms differ. Thus it is felf advisable to erect a new species to accommodate the present form which is named as Subulascaris sailuensis n.sp from

their locality.

Subulascaris sailuensis n.sp Type species-

Rana cyanophlyctis Host

Intestine

Sailu Dist. Parbhani (M.S.) Habit Locality

India

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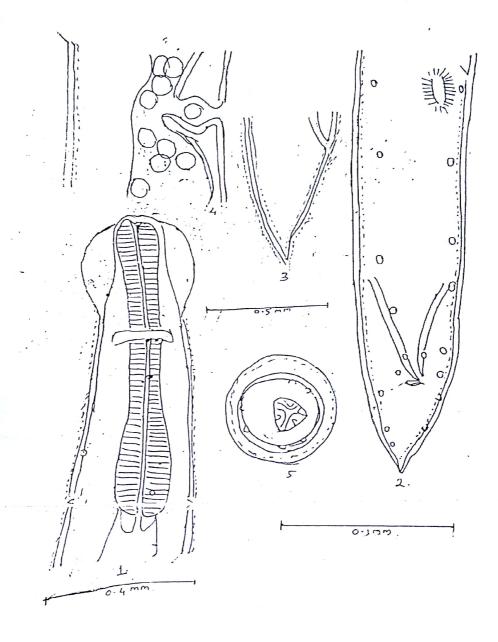
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Subulascaris sailuensis n.sp

- 1. Anterior region of male, lateral view,
- 4. Female Valva lateral,
- 2. Male tail lateral view,5. End of View.

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3. Female tail lateral view,

