

A NEW NEMATODE OF THE GENUS *CAMALLANUS* (RAILLIET AND HENRY, 1915) RECOVERED FROM *ANABAS TESTUDINEUS* FROM IMPHAL - EAST, MANIPUR (INDIA)

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ABSTRACT : A new species of parasitic nematode, (Camallanidae) is described from the intestine of the freshwater fish *Anabas testudineus* from Yaralpat, Imphal - East, Manipur, India, collected during May - June, 2020. It is morphologically characterized by buccal capsule slightly longer than width marked internally by 7 beaded longitudinal ridges in lateral view, strong and thick basal ring present at the junction of valves and oesophagus. Pair of tridents absent. The specimen is similar with *C. kumaoni* in the absence of tridents. However, it differs in number of caudal papillae in male and shape and sizes of tails in both sexes.

Key words : Nematode, camallanidae, tridents, Imphal-east, Manipur.

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INTRODUCTION

In India, fishes are the main food items and economically important hence they are highly demand in different section of population. Fishes are subjected to many parasitic infections due to their diverse feeding habit and habitats in both freshwater and marine systems. During May - June, 2020, 3 host fishes were examined and found to be infected by multiple parasites. Among the 6 parasites, some parasites are found to be closely related to *C. kumaoni*. The genus *Camallanus* consist of more than 40 species so far.

MATERIALS AND METHODS

Fishes were collected from Yaralpat, Imphal - east, Manipur. They were brought to the laboratory, dissected and examined for any parasites. The recovered nematode were press to flattened under slight pressure of cover glass and plain glass slide and fixed in A.F.A. (Alcohol – Formal – Acetate). The recovered parasites including 8 females and 2 males were washed in 0.7% normal saline solution. The specimens were fixed in A.F.A. (Alcohol – Formaline - Acetate) and dehydrated in G.A. (Glycerine Alcohol). After preparation of permanent slide, specimens were examined under Olympus CH20i light binocular microscope and photomicrograph were obtained

by Nikon model no. SMZ-1270 and Olympus CH 20i. Diagrams were drawn with the help of Camera Lucida and measurements were taken using ocular micrometer. All measurements are given in millimetre unless other wise stated. Other type specimens have been deposited in the Museum of Parasitology Section, Department of Life Sciences, Manipur University.

Observation

Camallanus trifidus n. sp. (Figs. 1A - E, 2A – E.

Description

Male (n = 3)

Body medium size with rounded anterior and tapering at posterior end, measure 8.13 - 10.12 mm in length and 0.20 - 0.54 mm in width. Body with finely transversely striated cuticle and large orange - brown buccal capsule typical of the genus. Apical oral opening narrow, slit like with beaded longitudinal ridges in each valves of buccal capsule. Buccal capsule slightly longer than width marked internally by 7 beaded longitudinal ridges in lateral view measures 0.30-0.43 mm in width. Strong and thick basal ring present at the junction of valves and oesophagus. Pair of tridents absent. Oesophagus divided into two - an anterior muscular portion expanded posteriorly and a long