



## A new species of *Oncodiscus jadhavii* sp. nov. in *Trygon sephen*, from Shrivardhan, Alibaug at Raigad district, West cost of Maharashtra, India

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### Abstract

The worm under discussion is having scolex flower shaped and absence of the accessory suckers, presence of hooks, mature segments longer than broad, testes 45-50 in number, cirrus pouch is in the middle of the segment, common genital pore sub-marginal, irregularly alternate, ovary, U shaped and vitellaria granular comes closer to *Oncodiscus saurus*, *O. saurus*, *O. fimbriatus*, *O. waltirensis*, *O. maharashtr*.

**Keywords:** *Oncodiscus jadhavii* sp. nov., intestine., *Trygon sephen*, Shrivardhan Alibaug, Maharashtra

### Introduction

Yamaguti, 1934 erected the genus *Oncodiscus* for a new species *O. saurus* from the small intestine of *Saurida argyro sephanes* (Synodontidae) from the sea of Japan and later (1952) [14] from the same host in East China sea and Tosa Bay. Subhpradha (1955) described *O. fimbriatus* from *S. tumbil* from Madras coast, Bay of Bengal, India and later Devi (1975) reported the same species from the same host and locality. The present form deals with description of a new species as *Oncodiscus jadhavii* sp. nov.

### Material and Method

Twenty five specimens of the cestode parasites were collected from the intestine of *Trygon sephen*. These parasites were taken for taxonomical studies. These cestodes were flattened in 4% formalin then washed in distilled water and passed the dehydrated different alcoholic grades stained with Harris haematoxyline or Borax carmine slides were mounted, under D.P.X and observed under microscope for identification.

### Description

The scolex is large, flower shape, apical disc is petal like in the anterior end. The scolex measures, 8.788 (8.749-8.827) in length and 8.862 (5.625-12.10) in width. The apical disc armed with hooks, arranged along the margin of the apical disc and measures 0.117(0.078-0.156) in length and 0.078(0.078-0.078) in width.

The bothria with crenulated border and measures 7.42 (7.03-7.812) in length and 1.874(1.76-1.95) in width Accessory suckers are absent. The hooks measured 0.117 (0.078-0.156) in length and 0.078(0.078-0.078) in width. Neck absent. The

mature segments are medium in size longer than broad rectangular in shape and measures 13.16 (12.56-13.67) in length and 6.702(6.875-6.953) in width. The testes are oval in shape, situated in the anterior half of segment 45-50 in numbers and measures 0.606(0.312

-0.390) in length and 0.273(0.234-0.312) in width. The cirrus pouch is large, oval in shape and measure 1.91 (1.875-1.953) in length and 0.898 (0.859-0.937) in width and situated in the middle of the segment. The cirrus is thin straight tube and measures 2.539 (2.5-2.57) in length and 0.117(0.78-0.15) in width, the cirrus and vagina opens through a common pore which is known as genital pore.

The genital pores are small, sub marginal middle of segment, irregularly alternate and measures 0.742(0.703-0.781) in length and 0.594 (0.078-0.156) in width. Vagina starts from the common genital pore, it is long narrow tube, posterior to cirrus pouch, takes a curve and forms receptacle seminis and measures 4.605(4.531-4.68) in length and 0.117 (0.078-0.156)in width. The ootype which is small rounded and measures 0.273 (0.234-0.312) in length and 0.273(0.234-0.312) in width. The ovary is large and compact situated in posterior end of the segment and measures, 2.465 (2.421-2.5) in length and 4.33(4.296-4.375) in width. The vitellaria are granular in 4-5 rows arranged at lateral sides of the segment.

<b>Type species</b>	<b><i>Oncodiscus jadhavii</i> sp. nov.</b>
Host	<i>Trygon Sephen</i>
Habitat	Intestine
Locality	Shrivardhan, Alibaug at Raigad district (West cost of Maharashtra, India)
Period of Collection	June2009 to May2011

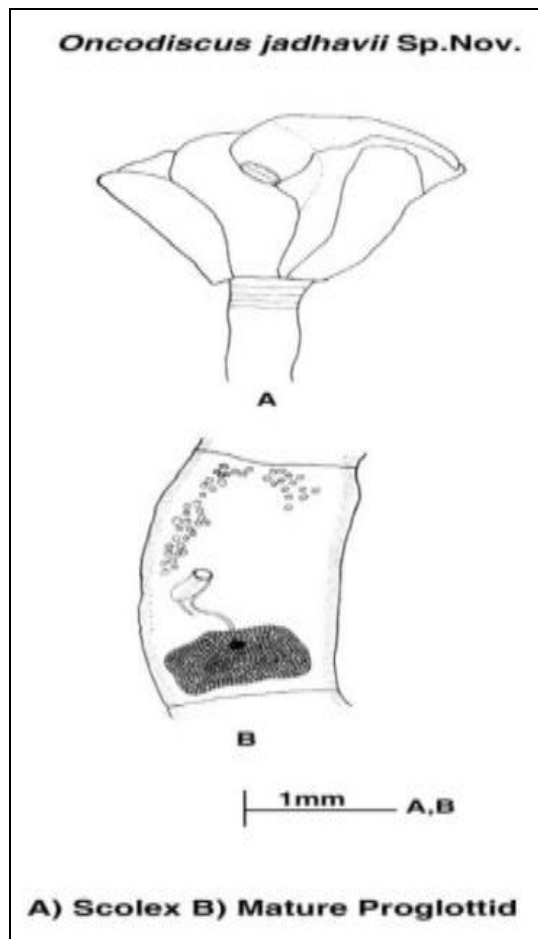


Fig 1

### Result and Discussion

The worm under discussion is having scolex flower shaped and absence of the accessory suckers, presence of hooks, mature segments longer than broad, testes 45-50 in number, cirrus pouch is in the middle of the segment, common genital pore sub marginal, irregularly alternate, ovary „U“ shaped and vitellaria granular.

1. The present cestode differs from *O. saurus*, Yamaguti, (1934) <sup>[9]</sup> which is having scolex fan shaped, ovary elongate, lobulate, vagina very wide anteriorly.
2. The present cestode differs from *O. fimbriatus*, Subhadrappa (1955) which is having Scolex globular, neck is absent, Testes upto 50, cirrus pouch lies a little to the right or left of the segment, genital pore situated medially, vagina could not be traced, ovary transversely elongated, and vitellaria very numerous, entirely cortical.
3. The present cestode differs from *O. waltirensis* Shinde, (1925) <sup>[5]</sup> Scolex is dorsoventrally flattened and is flat border of the scolex is very much irregular, neck is absent, Testes 87 in number, cirrus pouch oval, transversely placed, genital pore oval in shape, vagina like a big case, ovary bilobed, and vitellaria follicles are having thick band.

4. The present cestode differs from *O. Maharashtra* Shinde, (1975) which is having scolex flattened; irregular in shape, neck is present. Cirrus pouch is large oval bilobed with short, blunt acini, vagina narrow tube, genital pore rounded and vitellaria in 6-7 rows.

The above noted characters are valid enough to erect a new species hence the name *Oncodiscus jadhavii* sp. nov. Is proposed in honour of Late Prof. B. V. Jadhav, the well-known Helminthologist in India.

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