

# Morpho-toxonomic observation of new pseudophyllidean tapeworm *Senga dollfus*, 1934 from *Mastacembelus armatus*

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## ABSTRACT

The present investigation deals with the morpho-taxonomic observation of Pseudophyllidean tapeworm *Senga madhavae* Sp. Nov. collected from intestine of a *Mastacembelus armatus* at various places of Pune district, India. The worm comes closer to all the known species of this genus in general topography of organ but differs due to scolex triangular, tapering anteriorly and broad posteriorly, rostellum medium, rounded, bearing 40-44 rostellar hooks, neck absent, mature proglottids five to six times broader than long, testes 200-220 in numbers, scattered throughout the segment, cirrus pouch oval, ovary distinctly bilobed, dumb-bell shaped vagina thin, runs posteriorly, genital pores oval in shape, vitellaria granular, uterus saccular and egg elongated.

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The genus *Senga* was established by Dollfus, (1934), with its type species, *S. besnardi* from *Betta splendens*. The Siamese fighting fish in an aquarium at Vincennes, France. *S. ophioccephalina* Tseng, 1933 as *Anchistrocephalus ophioccephalina* from *Ophioccephalus argus* at Taimen, China and identified with a form previously recorded by Southwell, 1913 as *Anchistrocephalus polyptera* (*Anchistrocephalus*) Monticelli, 1890 - Syn. *Anchistrocephalus* Luhe, 1899 from *Ophioccephalus striatus* in Bengal, India. *S. pcyonera* Woodland, 1924 as *Bothriocephalus pcyonera* from *Ophioccephalus marulius* at Allahabad, India. *S. lucknowensis*. Johri (1956) from *Mastacembelus armatus* in India. Fernando and Furtado, 1963 recorded *S. malayana* from *Channa striata*, *S. parva* and *S. filiformis* from *Channa micropeltes* at Malacca. Ramadevi and Hanumanh Rao, 1966 reported the plerocercoid of *Senga* sp. from *Panchax panchax*. Tadros, 1968 synonymised the genus *Senga* with the genus *Polyonchobothrium* and proposed new combinations for the species. Furtado and Chauhan, 1971 reported *S. pahangensis* from *Channa micropeltes* at Tesak Bera. Shinde, 1972 redescribed *S. besnardi* from *Ophioccephalus gachua* in India. Ramadevi and Rao, 1973 reported another species of *S.*

*visakhapatanamensis* India. Ramadevi (1976) described the life cycle of *S. visakhapatnamensis* from *Ophioccephalus punctatus* in a lake at Kondakaria, Andhra Pradesh, India. But they do not agree with Tadros statements. Wardle, McLeod and Radinovsky, 1974 put *Senga* as a distinct genus in the family Ptychobothridae. Deshmukh, 1980 reported *S. khami* from *Ophioccephalus marulius*, a fresh water fish from Kham river at Aurangabad. Jadhav and Shinde, 1980 reported *S. godavari* from *M. armatus* at Nanded, M.S. India. One more species *S. aurangabadensis* was added by Jadhav and Shinde, 1980 from *M. armatus* at Aurangabad M.S. India. A new addition made by Kadam *et al.*, 1981 as *S. paithaniensis* from host *M. armatus*. Majid *et al.*, 1984 added *S. raoi* and *S. jagannathae* from *Channa punctatus*. Two more new species erected by Jadhav *et al.*, 1991 as *S. maharashtrii* and *S. gachuae* from the intestine of *M. armatus*. Monzer Hasnain, 1992 added *S. chauhani* from *Channa punctatus*. Tat and Jadhav, 1997 added *S. mohekarai* from the intestine of the *M. armatus*, at Parli, Dist. Beed, M.S. India. Patil and Jadhav added *Senga tappi* from *M. armatus* in 2003. Jadhav, 2005 made the review article of the genus *Senga* from freshwater fishes from Maharashtra state, India. Pande *et al.* (2006) added two new species *i.e.* *S. ayodhensis* from *Amphinuus cuchia* and *S. baghui* from *Rita rita*. Bhure *et al.*, 2007 added *S. jadhavae* from *Mastacembelus armatus*. Khadap *et al.* (2007) added *S. chandapurensis* from *Mastacembelus armatus*. Recently Srivastav *et al.*, 2007 added *S. ticto* from *Punctatus ticto*.

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