



“Studies On Some Cestode Parasites From Fresh Water Carnivorous Fishes Of Mula Dam Rahuri, Dist:-Ahemadnagar”

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Abstract

This paper represent the study of the helminthes parasites of freshwater fishes from the mula river. Between June 2020 and June 2021, 86 fish were collected and examined for helminthes cestode parasites in Forty Five infected intestines out of eighty six examined freshwater fish host species of *Mastacembelus armatus* (Lacepede, 1800) during the work. the examination were made with a binocular stereoscopic microscope. When possible, cestode parasites were removed from the host and identified while in the living state. Weight and length was measured after collection of parasites.

Keyword:- Fish, Parasite, Cestode, helminthes, genus, microscope

Introduction:-

The genus *Senga* was established by Dollfus, 1934 with its type species *Senga besnardi* from *Betta splendens*. The Siamese fighting fish in an aquarium at Vincennes, France. *Senga 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 Two more new species erected by Jadhav et al., 1991 as *Senga maharashtrii* and *Senga gachuae* from the intestine of *Mastacembelus armatus*. Monzer Hasnain, 1992 added *Senga chauhani* from *Channa punctatus*. Tat and Jadhav, 1997 added *Senga mohekarae* from the intestine of the *Mastacembelus armatus*, at Parli, Dist. Beed, Maharashtra, India. Patil and Jadhav added *Senga tappi* from *Mastacembelus armatus* in 2003. Jadhav, 2005 studied on genus *Senga* from freshwater fishes from Maharashtra state, India.

Material and Method:-

A total of Eighty six samples of fish species collected of *Mastacembelus armatus* and were collected in June 2020 to June 2021 from the different localities of mula dam of Ahemadnagar District Maharashtra State. Most of the fishes belong to small and medium size. All measurements are in millimeters (mm).

Result and Discussion: -

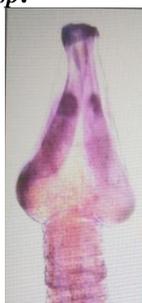
All species of the collected cestode parasites from *Mastacembelus armatus* (Lacepede, 1800) Mula Dam during the period of June 2020 to June 2021. As per the observations we made we found that, all these tapeworms were long, consisting of scolex, immature, mature and gravid proglottids. The scolex is pear shaped, tapering anteriorly and broad posteriorly and measures about 0.631 (0.578-685mm) in length and 0.418mm (0.201-0.614mm) in breadth.

The scolex having pair of sessile bothria, which extends to posterior end of the scolex and measures 0.692mm (0.648-0.716mm) in length and 0.062mm (0.046-0.085mm) in breadth. The anterior end of the scolex terminates in a rostellum, which is oval to rounded in shape and measures about 0.028mm (0.18-0.038mm) in length and 0.068mm (0.046-0.086mm) in breadth. The rostellum is armed with 29-33 hooks, which are arranged in two semicircle unequal length i.e. short and long. The long hooks measures 0.083mm (0.075-0.088mm) in length and 0.008mm (0.003-0.011mm) in breadth, while the short hooks measures about 0.074mm (0.007-0.077mm) in length and 0.009mm (0.004-0.012mm) in breadth. The neck is absent.

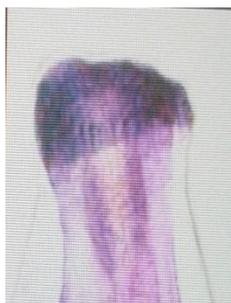
Taxonomic Summary

- Genus -*Senga* Dollfus, 1934
- Species -*Senga muleasis* n. sp.
- Type host -*Mastacembelus armatus* (Lacepede, 1800)
- Habitat (Site) -Intestine
- Type locality -Mula Dam, Rahuri, Dist. Ahemadnagar Maharashtra, India
- Date of collection -June 2020 to June 2021.

Senga muleasis n.sp.



Scolex



Rostellum with Hooks

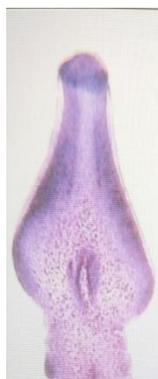


Mature proglottid

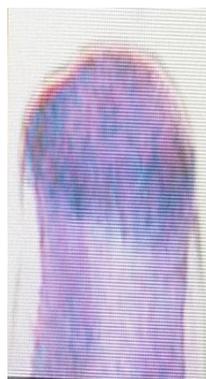
Taxonomic Summary

- Genus - *Senga dollfus*, 1934
- Species - *Senga rahuriasis n.sp.*
- Type host - *Mastacembelus armatus* (Lecepede, 1800)
- Habitat (Site) - Intestine
- Type locality - Mula Dam, Rahuri, Dist. Ahemadnagar Maharashtra, India
- Date of collection - June 2021 to June 2021

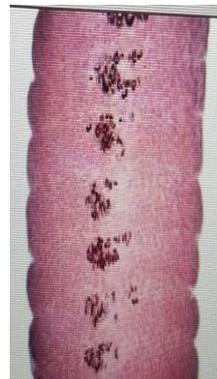
Senga rahuriasis n.sp.



Scolex



Rostellum with Hooks



Mature Proglottid

Conclusion:-

Senga muleasis n.sp. and *Senga rahuriasis n.sp.* collected from the fresh water fish *Mastacembelus armatus* (Lecepede, 1800) are recorded from Mula Dam of Ahemadnagar district 2021. The cestode parasites of freshwater carnivorous fishes include four genera from class Cestoda. These species are occurred in Mula Dam, from Ahemadnagar district of Maharashtra state during means distribution range are wide except some species. These species are differs from each other in general topography of taxonomy. The parasites belonging to the class Cestoda are highly diversified i. e. Two (02) different species recorded from present investigations.

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