

On a new species of the genus *Diplopylidium* (Eucestoda : Dilepididae) from *Felis chaus* at Chande Budruk, (MS) India

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ABSTRACT

The present paper deals with the description of a new species under the genus *Diplopylidium* Beddard (1913) as *Diplopylidium chandensis* new species which is having the distinct characters such as scolex medium, dome shaped in appearance, rostellum armed, rostellar hooks are 52 in number, arranged 7 rows, bipronged, mature segments medium, almost two and half times longer than broad, testes medium, oval, 30 in number, unevenly distributed, cirrus pouch large, elongated, oval, placed in 1/4th or 1/5th region of the segments, ovary medium, indistinctly bilobed, lobes with few short, blunt, round acini, vagina thin, posterior to the cirrus pouch, genital pores bilateral, marginal, situated almost at 1/4th from the anterior margin of the segments and vitelline gland medium, roughly triangular, postovarian.

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The genus *Diplopylidium* was established by Beddard (1913) (syn. *Progyropygidium* Skrjabin, 1924) with the species *D. genettae* from *Genetta dongolona* from London later on the following species are added to this genus.

D. acanthotretum (Parona, 1887) Witenberg, (1932). *D. fabulosm* Meggitt, (1927) syn. of *Joyeuxiella pasqualei* Diamare, (1893) Hughes, Baker and Dawson, (1941). *D. monoophorum* (Luhe, 1898) Dollfus, (1951). *D. fortunatum* Meggitt, (1927) syn. of *Joyeuxiella pasqualei* Diamare, (1893) Hughes, Baker and Dawson, (1941).

D. nolleri Skrjabin, 1924. *Dipylidium trinchesei* of Lopez, Neyra, 1928, Joyeux and Baer, 1936 Lopez, Neyra, 1944 and *Dendrolaphis tristis* Pujatti, 1949.

D. guinguecoronatum, Lopez-Neyra et Munoz-Medina, 1921 syn. of *D. acanthotretum* (Parona, 1886) Hughes, Baker, Dawson, 1941 Lopez-Neyra 1944. *D. Skrjabini* (Popav 1935). *D. trincheseii* (Diamare, 1892) Probably cysticercus *acanthotreta* Parona, (1887) Parrot and Joyeux, (1920).

D. triseriale (Luhe, 1898) Lopez-Neyra, 1927 *D. zschokkei* (Hungerbuhler, 1990) Huges, Baker and (Dawson, 1941).

Above 11 species are considered valid by Yamaguti, (1969). Later on five species were added to this genus

by Shinde *et al.* (1994), Patil *et al.* (1997), Shinde and Pawar (2001), Shinde (2004), Patil and Jadhav (2007).

MATERIALS AND METHODS

Seven specimens of the cestodes parasites were collected from the intestine of a cat, *Felis chaus* collected at Chande Budruk Tq. Karjat, Dist. Ahmednagar M.S. India. Preserved in 4% formalin, stained in H. haematoxyline, dehydrated through alcoholic grade and mounted in D.P.X. The figures are drawn with aid of Camera lucida. All measurements are in millimeters.

Scolex are medium, dome shaped in appearance, indistinctly marked off from the strobila and measures 0.243-0.330 in length and 0.243-0.374 in breadth, rostellum armed, oval and measures 0.049-0.102 in length and 0.146-0.204 in breadth, rostellar sac medium, oval and measures 0.145 in length and 0.049-0.135 in breadth, rostellar hooks are 52 in number, arranged in 7 rows, as follows, I row 04, II row 07, III row 08, IV row 09, V row 09, VI row 08, VII row 07, bipronged with unequal prongs and measures 0.046-0.063 in length and 0.001-0.016 in breadth, neck medium, rectangular and measures 0.631-0.655 in length and 0.209-0.364 in breadth, mature segments medium, longer than broad, roughly barret shaped in appearance, and measures 0.874-0.888 in length and 0.340-0.471 in breadth, testes oval, 30 in number, unevenly distributed, preovarian – 7, 19 postovarian, 4 between, laterally by longitudinal excretory canals and measures 0.019 in length and 0.015-0.039 in breadth, cirrus thin, coiled and measures 0.184 in length and 0.005 in

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