



***Holorchis castex* n. sp. (Digenea: Lepocreadiidae) from the painted sweet-lips *Diagramma pictum* (Thunberg, 1792) (Perciformes: Haemulidae) from New Caledonia**

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Abstract

Holorchis castex n. sp. is described from the haemulid fish *Diagramma pictum* off New Caledonia. It is easily distinguished from all other species in the genus in that the vitellarium reaches well into the forebody. Its relationships with members of the genera *Pseudaepnidiogenes* and *Aepnidiogenes* are also discussed. The monorchiid *Lasiotocus plectorhynchi* is reported from the same host.

Key words: Digenea, Lepocreadiidae, *Holorchis castex* n. sp., Haemulidae, *Diagramma pictum*, New Caledonia

Résumé

Holorchis castex n. sp. est décrit de *Diagramma pictum* (Haemulidae) de Nouvelle-Calédonie. L'espèce est aisément distinguée des autres espèces du genre par son vitellarium qui se prolonge à l'avant du corps. Ses relations avec les membres des genres *Pseudaepnidiogenes* et *Aepnidiogenes* sont aussi discutées. Le Monorchiidae *Lasiotocus plectorhynchi* est signalé du même hôte.

Introduction

Two species of *Holorchis* Stossich, 1901 have been reported from haemulids, the first being *H. plectorhynchi* Durio & Manter, 1968 from the yellowbanded sweetlips *Plectorhinchus lineatus* (Linnaeus) [as *P. goldmanni* (Bleeker)], off New Caledonia (Durio & Manter 1968), and the second being *H. legendrei* Dollfus, 1946 which, although mainly reported in mullids and sparids, was reported in the rubberlip grunt, *Plectorhinchus mediterraneus* Guichenot [as *Diagramma mediterraneum* (Guichenot)], off Senegal in the eastern Atlantic by Fischthal & Thomas (1972). Here, we report another species of *Holorchis* from the haemulid, the painted sweetlips *Diagramma pictum* (Thunberg).

Material and methods

Digeneans were collected live, immediately fixed in hot seawater and then transferred to ethanol. Whole-mounts were stained with Mayer's paracarmine, cleared in beechwood creosote and mounted in Canada balsam. Measurements were made through a drawing tube on an Olympus BH-2 microscope, using a Digicad