

Mustura celata, a new genus and species of loaches from northern Myanmar, and an overview of *Physoschistura* and related taxa (Teleostei: Nemacheilidae)

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Mustura celata, new genus and species, is described from small tributaries of Lake Indawgyi, Myanmar. *Mustura* is distinguished from other genera of Nemacheilidae by having: the male pectoral fin slanted upwards, with branched ray 1 wider than following rays, branched once and branches close together, without membrane between them except near tip; wide, thickened unculiferous pad extending along anterior branched pectoral-fin rays, covered dorsally by small conical tubercles; two air bladder capsules connected by a manubrium and posterior chamber small and circular, or absent; lower lip with wide median interruption, two halves forming an acute angle, not in contact medially, wide and fleshy medially, forming a triangular ‘cushion’, partly free from jaw and connected to throat by a frenum; suborbital flap present, with small tubercles on posterior extremity. Most species earlier placed in *Physoschistura* in fact belong to *Mustura*. *Physoschistura* is diagnosed by having the two halves of the air bladder capsule joined medially (without manubrium) and the posterior chamber free, well developed and in direct contact with the capsule; it presently includes only *P. brunneana* (type species), *P. pseudobrunneana*, and possibly *P. elongata*, *P. raoi* and *P. rivulicola*. *Mustura celata* is distinguished from the other species of *Mustura* by, among others, the colour pattern (6–10 [usually 7] very irregular blotches or bars on flank, alternating with irregular saddles); 9+8 branched caudal-fin rays; 8½ branched dorsal-fin rays; lateral line complete; caudal peduncle depth 1.3–1.7 times in its length. *Schistura shuensis*, *S. maepaiensis* and *S. bella* belong to *Mustura*. *Physoschistura absumbra* belongs to *Schistura* s.l.; *P. shuangjiangensis* belongs to a distinct genus, apparently unnamed. *Mustura*, *Pteronemacheilus*, *Physoschistura* and *Petruichthys* seem to be closely related; they share features of the mouth morphology and unique features of the male pectoral fin and suborbital flap.

Introduction

Nemacheilid loaches typically occur in fast flowing water of small streams and less often in other habitats such as large rivers and caves. The family has its greatest diversity in Southeast Asia from

where about 260 species have been described; most are described and figured in Kottelat (1984, 1990, 1998, 2000, 2001) and Freyhof & Serov (2001). Besides, new species are still regularly described (e.g. Bohlen & Šlechtová, 2010, Ou et al., 2011, Plongsesthee et al., 2011, 2013), especially in

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Received 6 February 2018
 Revised 24 April 2018
 Accepted 26 June 2018

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