

## *Tanichthys kuehnei*, new species, from Central Vietnam (Cypriniformes: Cyprinidae)

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*Tanichthys kuehnei*, new species, is described from a stream in the Bach Ma Mountains in Hue Province in Central Vietnam. The new species differs from its congeners by having more branched rays in anal fin (9½ vs. 7–8½ in *T. micagemmae* and 8½ in *T. albonubes* and *T. thacbaensis*). Morphological and genetic characters suggest it to be closer related to *T. micagemmae*, the only other species of *Tanichthys* known from Central Vietnam. *Tanichthys kuehnei* differs from *T. micagemmae* by having a white anal-fin margin (vs. red).

### Introduction

Cyprinid fishes of the genus *Tanichthys* are small (maximum 33 mm SL) but colourful and well-liked by ornamental fish hobbyists. The genus is characterised by confluent narial openings that are not separated by a skin wall and by males bearing cornified tubercles on the snout posterior to premaxilla (Freyhof & Herder, 2001). At present, three species are recognised: *T. albonubes* Lin, 1932 from southeast China (Guangxi, Guangdong and Hainan provinces) and northeast Vietnam (Quang Ninh Province), *T. thacbaensis* Nguyen & Ngo, 2001 from northwest Vietnam (Yen Bai Province) and *T. micagemmae* Freyhof & Herder, 2001 from Central Vietnam (Quang Tri and Quang Binh provinces) (Freyhof & Herder, 2001; Kottelat, 2001; Nguyen & Ngo, 2001; Yi et al., 2004; Chan & Chen, 2009; Li & Li, 2011; Luo et al., 2015). Fishes of the

genus *Tanichthys* inhabit moderately large to very small streams, with populations frequently being restricted to very small geographic areas and are often found only very locally (Freyhof & Herder, 2001), leading to strong isolation effects between the populations. This isolation was demonstrated in a genetic study by Luo et al. (2015) where each of six analysed wild populations of *T. albonubes* had own genetic signatures. The local occurrence in small streams also causes that members of *Tanichthys* are easily overlooked and therefore the existence of further, yet unknown populations can be predicted.

In 2009, an undescribed species of *Tanichthys* was exported from Central Vietnam for the ornamental fish trade (Bohlen, 2010; Seidel, 2010), reportedly from a stream in the Bach Ma Mountains in Vietnam. In the following years, several expeditions were undertaken by professional

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