



Clarification of the nomenclatural status of *Gymnodiptychus integrigymnatus* (Cypriniformes, Cyprinidae)

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The cyprinid genus *Gymnodiptychus* was established by Herzenstein (1892), with *Diptychus dybowskii* Kessler as type species. *Gymnodiptychus integrigymnatus* was first published as a nomen nudum in Cao et al. (1981) who, in using the name, indicated that its author was S.-Y. Huang. The species has since been described in other works [e.g., Mo (1989), Chen & Huang (1998), Chen & Cao (2000)]. At present, FishBase (www.fishbase.org) and Eschmeyer (2008) list different authorships for this nominal species: Huang (1998) and Mo (1989). The nomenclatural status of *G. integrigymnatus* is discussed below with a view to the clarification of this taxon's authorship and date of availability.

Gymnodiptychus integrigymnatus Mo, in Chu & Chen, 1989

Cao et al. (1981: 125) were the first to use the name *Gymnodiptychus integrigymnatus*. They wrote “*G. integrigymnatus* feeds mainly on fishes” and mentioned in a footnote that “...this information was provided by Mr. Huang Shunyou”. In the following sentence they stated, that “*Gymnodiptychus* species obviously differ from *Diptychus* species in having reduced scales, especially in *G. integrigymnatus*, where the scales on the humeral region and lateral line are reduced.” These words do not diagnose the new species from its congeners and thus cannot be treated as a statement of characters purported to differentiate the taxon. Because of the lack of a diagnosis for *G. integrigymnatus* in Cao et al. (1981), the conditions for availability in this work do not satisfy those specified in Articles 13.1.1 and 13.1.2 of the International Code of Zoological Nomenclature (ICZN, 1999). The name *G. integrigymnatus* Cao, Chen, Wu and Zhu, 1981 should therefore be treated as a nomen nudum.

While Mo (1989: 319–321, fig. 298 and 299) provided the first complete description of *G. integrigymnatus*, the authorship of the name was given as Huang in Cao et al. (1981). Mo (1989) listed 12 specimens (deposited in Kunming Institute of Zoology (KIZ)), collected from the vicinity of Ruidian Town and Mingguang Town, Tengchong County, Yunnan Province, as material examined.

In their account of *G. integrigymnatus*, Wu & Wu (1992: 434–435, fig. 118) cite as sources “...the draft of the Schizothoracinae fishes of Yunnan” (type localities: Ruidian Town and Mingguang Town, Tengchong County, Yunnan Province) by Huang in 1980 and Mo (1989), attributing authorship of the name to Huang in the unpublished draft.

Huang in Chen & Huang (1998: 231–233, fig. 162) described *G. integrigymnatus* as a new species, stating in a footnote that “...this is the first formal description of the species since it was cited by Cao et al. (1981)”. The second reference Chen & Huang (1998) cited was Mo (1989). Chen & Cao (2000: 348–349, fig. 215) subsequently gave the authorship of *G. integrigymnatus* as Huang (1998).

Mo (1989) attributed the authorship of *G. integrigymnatus* to Huang in Cao et al. (1981). According to Article 13.1 of the International Code of Zoological Nomenclature (ICZN, 1999), the name *G. integrigymnatus* Mo, in Chu & Chen, 1989, is available and should be regarded as the first formal description of this taxon. Following Article 21.1 and Article 50.1 of the Code, the publication date of 1989 and the authorship of Mo should be adopted for *G. integrigymnatus*.

According to Article 72.1 of the Code (ICZN, 1999), the 12 specimens examined by Mo (1989) and deposited in KIZ should be treated as syntypes. Some of these specimens are also listed as types by Huang in Chen & Huang (1998) in his description of *G. integrigymnatus* (the material from Mingguang Town, Tengchong County, Yunnan listed in Mo,