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## ***Paraqianlabeo lineatus*, a new genus and species of labeonine fishes (Teleostei: Cyprinidae) from South China**

HAI-TAO ZHAO<sup>1,2</sup>, JOHN P. SULLIVAN<sup>3</sup>, YAO-GUANG ZHANG<sup>1</sup> & ZUO-GANG PENG<sup>1</sup>

<sup>1</sup> Key Laboratory of Freshwater Fish Reproduction and Development (Ministry of Education), Southwest University School of Life Science, Beibei, Chongqing 400715, China. E-mail: [haiwang33@163.com](mailto:haiwang33@163.com); [pengzuogang@gmail.com](mailto:pengzuogang@gmail.com)

<sup>2</sup> School of Environment and Life Science, Bijie University, Bijie, Guizhou 551700, China

<sup>3</sup> Cornell University Museum of Vertebrates, 159 Sapsucker Woods Road, Ithaca, New York 14850 USA. E-mail: [jpsullivan@cornell.edu](mailto:jpsullivan@cornell.edu)

### **Abstract**

*Paraqianlabeo*, new genus, is described from the Chishui-He and Wu-Jiang rivers of the Yangtze River basin in Guizhou Province, South China. This new genus is distinguished from all other labeonine genera by a combination of morphological and molecular evidence. It is distinguished from all other Asian garrains by a unique oromandibular morphology; i.e., an arched, wide, rudimentary sucker formed by raised front and lateral margins of lower lip, postlabial groove and mental groove between middle and lateral lobes of lower lip chevron-shaped; anteroventral margin of rostral cap arched, thin and papillose; rostral cap not overlying upper lip, upper lip connected with lower lip around corners of mouth; well developed upper lip free from upper jaw; lower lip divided into two lateral fleshy lobes and one central plate, these two lateral fleshy lobes small and short, median lobe of lower lip large; anterior and anterolateral edges of upper and lower lip finely papillose; shallow, straight groove between lower lip and lower jaw; lower jaw bears thin, cornified cutting edge. Additionally, scales on mid-ventral region from pectoral fins to pelvic fins subcutaneous and half-hidden; dorsal fin with 3 simple and 7½-8 branched rays. *Paraqianlabeo lineatus*, new species, type species of this genus, has longitudinal dark stripe along side of body. Analyses of mitochondrial DNA data indicate that this new genus forms a highly diverged lineage within the Garraina group of Labeoninae.

**Key words:** taxonomy, Garraina, new genus, Yangtze River drainage, Guizhou Province

### **Introduction**

The Labeonini (*sensu* Reid 1982; Stiassny & Getahun 2007) is composed of a large number of cyprinid genera from the freshwaters of tropical Africa and Asia (Zhu *et al.* 2011). Labeonins are widely distributed in rivers and streams, and most species are adapted to rapidly flowing waters. Currently, this group is represented in Southeast Asia and South China by approximately 36 genera (Zhang & Zhou 2012). Most of the generic-level diversity of the Labeonini is concentrated in South China where 23 genera are found. Recently, four new genera, *Protolabeo*, *Cophecheilus*, *Sinigarra* and *Stenorynchoacrum*, have been discovered and described, totaling 27 genera in China (An *et al.* 2010, Zhu *et al.* 2011, Zhang & Zhou 2012, Huang *et al.* 2014), of which 13 are endemic. These taxa are distinguished from other cyprinid fish groups by a high degree of morphological modification of their oromandibular structures (Zhang *et al.* 2000). Consequently, the taxonomy of the Labeonini at the generic-level rank is poorly understood. This tribe is the subject of recent molecular phylogenetic analyses that seek to better understand their relationships and to develop more accurate taxonomic classifications (Zheng *et al.* 2010; Yang & Mayden 2010; Yang *et al.* 2012).

During recent fieldwork in Guizhou Province from May to September 2013, several specimens were sampled from the Wu-Jiang and Chishui-He rivers of the upper Yangtze River basin. The new specimens had distinct phenotypes and could not be assigned confidently to any genus. These observations combined with the morphological and molecular analyses of previous studies (Zhang *et al.* 2000; Zhang & Chen 2004; Zhang & Chen 2006; Zhang *et al.* 2006; Zhang *et al.* 2008; Zhang & Zhou 2012), convince us that a new genus is warranted for these specimens, which is described herein.

## Comparative material

*Qianlabeo striatus*: SWU 20130917001–012, 54.7–80.8 mm SL, Beipan-Jiang of Pearl River drainage at An'shun County, Guizhou Province;

*Sinocrossocheilus labiatus*: SWU 20121120001–010, 53.2–60.0 mm SL, Chishui-He River of Yangtze River basin at Bijie City, Guizhou Province;

*Akrokolioplax bicornis*: SWU 20071115020, 102 mm SL, Nujiang River drainage at Baoshan City, Yunnan Province;

*Crossocheilus burmanicus*: SWU 201305110001, 79.4 mm SL, Binlang-Jiang of Irrawaddy River drainage at Tengchong County, Yunnan Province;

*Sinocrossocheilus bamaensis*: SWU 20131124001–011, 54.7–123.5 mm SL, Hongshui-He of Pearl River drainage at Wangmo County, Guizhou Province;

*Rectoris luxiensis*: SWU 20051114006, 107.4 mm SL, Jialing-Jiang of upper Yangtze River drainage at Kaixian County, Chongqing;

*Bangana rendahli*: SWU 20130804001, 123.5 mm SL, Wu-Jiang of upper Yangtze River drainage at Wuchuan County, Zunyi City, Guizhou Province;

*Discogobio yunnanensis*: SWU 20130806002–008, 70.3–95.1 mm SL, Wu-Jiang of upper Yangtze River drainage at Tongzi County, Zunyi City, Guizhou Province;

*Pseudogyrinocheilus prochilus*: SWU 20130804003, 134.6 mm SL, Wu-Jiang of upper Yangtze River drainage at Wuchuan County, Zunyi City, Guizhou Province;

*Sinilabeo hummeli*: SWU 20080410001, 161.1 mm SL, Jialing-Jiang of upper Yangtze River drainage at Hechuan County, Chongqing;

*Ptychidio jordani*: SWU 020121201089, 84.8 mm SL; China: Guangxi Province, Hongshui-He of Pearl River drainage at Du'an County.

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