

Coexistence of two closely related cyprinid fishes (*Hemiculter bleekeri* and *Hemiculter leucisculus*) in the upper Yangtze River, China

Table S1. Comparison of the range of morphometric characteristics between *H. leucisculus* and *H. bleekeri* from reference “Fauna Sinica – Osteichthyes Cyperiniiformes II” and this study.

Source	Chen 1998 [44]			This study		
Morphological traits	<i>H. leucisculus</i>	<i>H. bleekeri</i>	Sampling location	<i>H. leucisculus</i>	<i>H. bleekeri</i>	Sampling location
BL/BD	3.4–4.9	3.4–4.9	<i>H. leucisculus</i> : Taiwan, Hainan, Guangxi, Yunnan,	3.91–5.41	4.47–5.89	
BL/HL	4.0–5.0	4.3–5.0	Fujian, Zhejiang, Zunyi, Sichuan, Hunan, Hubei,	4.38–4.96	4.60–5.76	
BL/CPL	6.2–8.3	6.5–8.0	Anhui, Gansu, Jilin, and Heilongjiang province, China	4.62–6.22	4.66–7.45	
HL/SnL	3.1–4.0	3.1–4.7		3.78–4.93	3.81–5.29	Mudong
HL/ED	3.6–5.5	3.7–4.8	<i>H. bleekeri</i> : Fujian, Sichuan, Hunan, Hubei, Liaoning,	3.06–4.08	3.04–3.67	
HL/IDE	2.9–4.1	2.8–3.5	and Heilongjiang province, China.	2.73–3.78	2.98–3.53	
CPL/CPD	1.2–1.8	1.1–1.5		1.83–2.62	1.55–2.51	

BL, Body length; BD, Body depth; HL, Head length; CPL, Caudal peduncle length; SnL, Snout length; ED, Eye diameter; IDE, Inter-distance of eyes; CPD, Caudal peduncle depth.

The number of samples of *H. leucisculus* used in “Fauna Sinica – Osteichthyes Cyperiniiformes II” was 114, the range of body length was 86 – 205 mm. They were collected from Taiwan, Hainan, Guangxi, Yunan, Fujian, Zhejiang, Zunyi, Sichuan, Hunan, Hubei, Anhui, Gansu, Jilin, and Heilongjiang province, China. The number of samples of *H. bleekeri* used in “Fauna Sinica – Osteichthyes Cyperiniiformes II” was 55, the range of the body length was 82 – 128 mm. They were collected from Fujian, Sichuan, Hunan, Hubei, Liaoning, and Heilongjiang province, China.

Table S2. Sampling location and sample information (body length, body weight, and their mean values) that used in stable isotope analysis, and the mean of all samples

Species	location	Body length (mm)	Body weight (g)	The value of $\delta^{13}\text{C}$	The value of $\delta^{15}\text{N}$
<i>H. leucisculus</i>	Mudong	181	54.2	-20.165	10.820
		119	22.3	-22.001	10.199
		128	24.7	-20.590	10.213
		121	18.7	-19.721	10.178
		138	31.5	-21.283	10.248
		95	10.9	-21.969	9.725
		121	22.5	-21.711	10.362
		115	18.6	-20.826	10.036
		113	19.8	-20.763	10.177
		101	9.9	-19.970	9.852
		119	20.5	-21.169	10.132
		121	22.6	-21.784	10.453
		106	15.3	-21.424	9.768
		103	10.3	-21.434	9.597
		120	21.6		
mean of samples for SIA					
mean of all samples		119	20.8		
<i>H. bleekeri</i>	Mudong	113	16.6	-23.333	11.880
		92	7.2	-24.242	11.594
		84	6.5	-23.089	11.491
		127	20.5	-24.517	13.664
		76	4.4	-25.072	10.459
		85	6.6	-22.941	11.298
		80	5.3	-23.473	10.220
		118	18.1	-24.746	12.399
		87	6.49	-23.641	11.916
		80	5.37	-24.072	10.746
		114	16.1	-22.189	11.287
		115	16.3	-23.229	12.151
		94	8.8	-23.962	11.118
		106	16.9	-21.190	11.154
mean of samples for SIA		98	11.1		
mean of all samples		97	11.5		