

**Acknowledgements:** We thank Dr. Chyng-Shyan Tzeng of Tsin Hua University for arrangement of sample collections. This research was supported in part by the National Science Council of the Republic of China (NSC 77-0201-B001-25).

## REFERENCES

- Akihito Prince. 1984. Gobioidae. In H Masuda, K Amaoka, C Araga, T Uyeno, Y Yoshino, eds. The fishes of the Japanese Archipelago. Tokyo: Tokai Univ. Press, pp. 236-238.
- Akihito Prince, A Iwata, K Sakamoto, Y Ikeda. 1993. Gobioidae. In T Nakabo, ed. Fishes of Japan with pictorial keys to the species. Tokyo: Tokai Univ. Press, pp. 997-1116.
- Aonuma Y. 1992. Review of the genus *Rhinogobius* (Pisces: Gobiidae) in Taiwan. Master's thesis, University of the Ryukyus, 79 pp.
- Boeseman M. 1947. Revision of the fishes collected by Burger and Von Siebold in Japan. Profschrift. Zool. Meded. **28**: 1-247.
- Chen IS. 1994. Systematic studies on the *Rhinogobius brunneus* species complex from Taiwan. Master's thesis, National Sun Yat-sen University, 112 pp.
- Gill TN. 1859. Notes on a collection of Japanese fishes made by Dr. J. Morrow. Proc. Acad. Nat. Sci. Philadelphia **1859**: 144-149.
- Jordan DS, A Seale. 1906. Descriptions of six new species of fishes from Japan. Proc. U. S. Natl. Mus. **30**: 143-148.
- Katoh M, M Nishida. 1994. Biochemical and egg size evolution of freshwater fishes in the *Rhinogobius brunneus* complex (Pisces: Gobiidae) in Okinawa, Japan. Biol. J. Linn. Soc. **51**: 325-335.
- Masuda H, K Amaoka, C Araga, T Uyeno, Y Yoshino. 1984. The fishes of the Japanese Archipelago. Tokyo: Tokai Univ. Press.
- Masuda Y, T Ozawa, S Enami. 1989. Genetic differentiation among eight color types of the freshwater goby, *Rhinogobius brunneus*, from western Japan. Jap. J. Ichthyol. **36**(1): 30-51.
- Mizuno N. 1960. Description of a new freshwater goby from Japan. Mem. Coll. Sci., Univ. Kyoto. B. **27**(2): 117-119.
- Nei M. 1972. Genetic distance between populations. Amer. Nat. **106**: 283-292.
- Oshima M. 1919. Contributions to the study of the freshwater fishes of the island of Formosa. Ann. Carneg. Mus. **12**(2-4): 169-328.
- Redfield JA, JP Salini. 1980. Techniques of starch-gel electrophoresis of penaeid prawn enzymes (*Penaeus* spp. and *Metapenaeus* spp.). CSIRO. Aust. Div. Fish. Oceanogr. Rep. **116**: 1-20.
- Regan CT. 1908. Descriptions of new freshwater fishes from China and Japan. Ann. Mag. Nat. Hist. **(8)**1: 149-153.
- Rohlf FJ. 1993. NTSYS-pc, numerical taxonomy and multivariate analysis system. Version 1.8. New York: Exter Software.
- Siciliano MJ, CR Shaw. 1976. Starch-gel electrophoresis of enzymes. In I William, ed. Chromatographic and electrophoretic techniques. Vol. 2. London: Heinemann Medical Books Ltd., pp. 185-209.
- Temminck DJ, H Schlegel. 1845. Pisces. In PF von Siebold, ed. Fauna Japonica. Vol. 4. Leiden: E J Brill. pp. 113-132.
- Tsoi CM, SC Lee, HK Mok. 1987. An electrophoretic investigation of tissue-specific isozymes of lactate dehydrogenase in some holocentrid fishes from Taiwan. Bull. Inst. Zool., Acad. Sinica **26**(2): 151-155.

## 記臺灣之一新種短吻紅斑吻鰕虎

李信徹<sup>1</sup> 張戎悌<sup>1</sup>

本文記載一種採自臺灣大肚溪之新種短吻紅斑吻鰕虎。本種與同屬他種鰕虎魚間之最大差異在於本種脊椎骨數稍多[27]，全身佈滿紅斑，其在胸鰭基部者排成二斑點列；為固棲河川不洄游外海產卵者，卵粒頗大，為臺灣產同屬鰕虎魚中卵徑最大者。與近緣種 *R. candidianus* 間之遺傳相似度頗低[0.682-0.684]，足證本種應為合理之一個獨立種。至於與同屬其他種鰕虎魚間之系統分類關係，文中亦一併加以討論。

關鍵詞：川鰕虎屬，分類，短吻紅斑吻鰕虎新種，異構酶變異。

<sup>1</sup> 中央研究院動物研究所