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研究專長：系統發生學、種群遺傳學和生態學

研究領域：裸胸鯙系統分類。

鮡科魚類系統分類。

鱚亞科系統分類。

蝦虎亞科系統分類與族群遺傳。

魚類環境 DNA。

### 近年來主持之研究計畫 (Recent Research Projects)

1. 獨流溪棲地評估與生態復育指標研究-以東北角三條溪流為例(1/4) 110-2321-B-110-001-
2. 開放海域中魚類環境 DNA 之水平分布 110-2611-M-110-013-
3. 海洋中魚類環境 DNA 之垂直分佈(II)：同步採樣點間之比較 109-2611-M-110-005-
4. 海洋中魚類環境 DNA 之垂直分佈 108-2611-M-110-004-
5. 南中國海線鰻鱚(*Plotosus lineatus*)之族群遺傳結構與鰻球組成個體之血緣分析 106-2611-M-110 -008-
6. 菲律賓海域魚類之生命條碼與遺傳多樣性研究—基因庫建立以供永續漁業之參考 106-2923-B-110 -002 -MY3
7. 越南海域生態與經濟重要性魚類之遺傳多樣性研究—建立當地基因庫與提供永續漁業之參考 105-2923-B-110 -001 -MY3

### Selected recent publications :

Peer review papers; \*=corresponding author.

1. Wen-Chien Huang, Hong-Ming Chen, Yung-Che Tseng, **T.Y. Liao\***. Accepted. Assessing phenovariant species pairs of moray eels: hybridization, introgression, and morphology. *Zoologica Scripta*.
2. Wei, Jiehong, M.Y. Liu, F. Li, J. Yang, J.C. Shiao, Y. Iizuka, B. Kang, **T.Y. Liao\***. 2022. In preparation. Currents shaped the lineage distributions of *Tridentiger barbatus* along the Chinese coast. *Frontiers in Marine Science*, 9: 923439.
3. Tak-Kei Chou, **Te-Yu Liao\***. 2022. A new species of *Parascorpaena* Bleeker 1876 (Teleostei: Scorpaenidae) from Taiwan. *Zoological Studies*, 61: 09. (SCI)
4. Li, Fan\*, **Te-Yu Liao**, Jörg Bohlen, Zhi-Xin Shen, Liang-Jie Zhao & Shan Li. 2022. Two new species of *Tanichthys* (Teleostei: Cypriniformes) from China. *Journal of Vertebrate Zoology*, 71: 21067. (SCI)

5. Chien-I Lee, Feng-Yu Wang, Min-Yun Liu, Tak-Kei Chou, **Te-Yu Liao\***. 2021. DNA metabarcoding for dietary analysis of Holland's carp (*Spinibarbus hollandi*) to evaluate the threat to native fishes in Taiwan. *Journal of Fish Biology*, 99: 1668–1676. (SCI)
6. Huang, Wen-Chien, David G. Smith, Kar-Hoe Loh, **Te-Yu Liao**. 2021. Two new moray eels of genera *Diaphenchelys* and *Gymnothorax* (Anguilliformes: Muraenidae) from Taiwan and the Philippines. *Zoological Studies*, 60: 24. (SCI)
7. Jhuang, W.C., K.H. Chiu, **Te-Yu Liao\***. 2021. Early morphological development of *Erromyzon kalotaenia* (Teleostei: Gastromyzontidae). *Ichthyological Research*, 68: 303-311. (SCI)
8. **Liao, Te-Yu ¶\***, Pei-Luen Lu¶, Yuan-Huan Yu, Wen-Chien Huang, Jen-Chieh Shiao, Hung-Du Lin, Wei-Cheng Jhuang, Tak-Kei Chou, Fan Li. 2021. Amphidromous but endemic: population connectivity of *Rhinogobius gigas* (Teleostei: Gobioidae). *PLOS ONE*, 16(2): e0246406. (SCI)
9. Huang, W.C., A. Mohapatra, T.T. Pham, H.M. Chen, **Te-Yu Liao\***. 2020. A review of the genus *Strophidon* (Anguilliformes: Muraenidae), with description of a new species. *Journal of Fish Biology*, 97: 1462-1480. (SCI)
10. **Liao, Te-Yu**, Wen-Chien Huang, Yoshiyuki Iizuka, Ming-Tai Chou, Jen-Chieh Shiao\*. 2020. Facultative amphidromy and pelagic larval duration plasticity of *Rhinogobius formosanus* (Teleostei: Gobioidae). *Zookeys*, 951: 91-107. (SCI)
11. Li, F., R. Arai, **Te-Yu Liao\***. 2020. *Rhodeus flaviventris*, a new bitterling (Teleostei: Cyprinidae: Acheilognathinae) from China. *Zootaxa*, 4790 (2): 329-340. (SCI)
12. Huang, Han-Ting, Chia-Ning Pao, **Te-Yu Liao\***, Li-Lian Liu\*. 2020. Low genetic diversity of cultivated spotted hard clam (*Meretrix petechialis*) in Taiwan. *Aquaculture Research*, 51: 2962-2972. (SCI)
13. Deng, Weide, Li Lin, Xiaoxia Huang, **Te-Yu Liao**, Bin Kang. 2020. Climate change and species invasion drive decadal variation in fish fauna in the Min River, China. *Water*, 12: 1558. (SCI)
14. Huang, Wen-Chien, Pham The Thu, **Te-Yu Liao\***. 2020. New record of the long moray *Gymnothorax longinquus* (Actinopterygii: Anguilliformes: Muraenidae) from southern Vietnam, confirming the uncertain record in the Gulf of Thailand. *Acta Ichthyologica et Piscatoria*, 50(2): 201-207. (SCI)
15. Li, Fan\*, **Te-Yu Liao** and Ryoichi Arai. 2020. Two new species of *Rhodeus* (Teleostei: Cyprinidae: Acheilognathinae) from the Yangtze River, China. *Journal of Vertebrate Biology*, 69: 19055. (SCI)
16. Shyama Sundari Devi Chanthran, Phaik-Eem Lim, Yuan Li, **Te-Yu Liao**, Sze-Wan Poong, Jianguo Du, Muhammad Ali Syed Hussein, Richard Rumpet, Kar-Hoe Loh. 2020. Genetic diversity and population structure of *Terapon jarbua* (Forskål, 1775) (Teleostei, Terapontidae) in Malaysian waters. *Zookeys*, 911: 139-160. (SCI)
17. Pham The Thu, Wen-Chien Huang, Tak-Kei Chou, Nguyen Van Quan, Pham Van Chien, Fan Li, Kwang-Tsao Shao, **Te-Yu Liao\***. 2019. DNA barcoding of coastal ray-finned fishes in Vietnam. *PLOS ONE*, 14 (9):e0222631. (SCI)
18. Huang, Wen-Chien, Hong-Ming Chen\* & **Te-Yu Liao\***. 2019. Revalidation of a moray eel, *Gymnothorax mucifer* Snyder, 1904 (Teleostei: Anguilliformes: Muraenidae), with a revised distribution. *Zootaxa*, 4559:151-165. (SCI)

19. Tung, Chueh-Chen and **Te-Yu Liao\***. 2018. A New Record of *Variola albimarginata* (Teleostei, Serranidae) from the Dongsha Atoll. *Taiwan Journal of Biodiversity*, 20: 169-174.
20. Sun, Hsiang-Chun, Wen-Chien Huang and **Te-Yu Liao\***. 2018. First record of the rainbow runner *Elagatis bipinnulata* (Quoy and Gaimard, 1825) (Perciformes: Carangidae) from the Dongsha Atoll. *Taiwan Journal of Biodiversity*, 20: 73-78.
21. Huang, Wen-Chien, Van Quan Nguyen\* and **Te-Yu Liao\***. 2018. First record of the snowflake-patched moray *Gymnothorax niphostigmus* Chen, Shao & Chen, 1996 (Anguilliformes; Muraenidae) in Vietnam and its validity confirmed by DNA barcoding. *Journal of Applied Ichthyology*, 34: 687-690. (SCI)
22. Huang, Wen-Chien, Jui-Tsung Chang, Chun Liao, Atsushi Tawa, Yoshiyuki Iizuka, **Te-Yu Liao\*** and Jen-Chieh Shiao\*. 2018. Pelagic larval duration, growth rate, and population genetic structure of the tidepool snake moray *Uropterygius micropterus* around the southern Ryukyu Islands, Taiwan, and the central Philippines. *PeerJ*, 6: e4741. (SCI)
23. Huang, Wen-Chien, Jen-Chieh Shiao and **Te-Yu Liao\***. 2017. New record of the enigmatic moray *Gymnothorax enigmaticus* McCosker and Randall, 1982 (Anguilliformes: Muraenidae) from Taiwan. *Platax*, 14: 89-95.
24. Li, Fan\*, **Te-Yu Liao**, Ryoichi Arai and Liangjie Zhao. 2017. *Sinorhodeus microlepis*, a new genus and species of bitterling from China (Teleostei: Cyprinidae: Acheilognathinae). *Zootaxa*, 4353 (1): 69-88 (SCI).
25. Lu, Y.T., M.Y. Liu, Y. He & **T.Y. Liao\***. 2016. *Smilosicyopus leprurus* (Teleostei: Gobiidae) is a fin-eater. *Zoological Studies*, 55: 31 (e journal) (SCI).
26. Feng-Yu Wang, Tzi-Yuan Wang, **Te-Yu Liao**, & Min-Yun Liu. 2016. The complete mitochondrial genome sequence of *Nemateleotris decora* (gobiiformes, gobiidae). *Mitochondrial DNA*, 27, 4274-4275 (SCI)
27. S.Y.V. Liu, I.H. Huang, M.Y. Liu, H.D. Lin, F.Y. Wang & **T.Y. Liao\***. 2015. Genetic stock structure of *Terapon jarbua* (Perciformes) around Taiwanese waters. *Marine and Coastal Fisheries*. 7, 464-473 (SCI)
28. Chou\*\*, C.E., **T.Y. Liao\*\***, H.W. Chang, S.K. Chang. 2015. Population structure of *Hirundichthys oxycephalus* in the northwestern Pacific inferred from mitochondrial cytochrome oxidase I gene. *Zoological Studies* 54, 19 (e journal; SCI).
29. **Liao, T.Y.** & H.H. Tan\*. 2014. *Brevibora exilis*, a new species of cyprinid fish from Borneo (Teleostei: Cypriniformes). *Ichthyological Exploration of Freshwaters*, 24: 205-219 (SCI).
30. **Liao\***, **T.Y.** & S.O. Kullander. 2013. Phylogenetic significance of the kinethmoid-associated Y-shaped and long intercostal ligaments in the Cypriniformes (Actinopterygii: Ostariophysii). *Zoologica Scripta*, 42: 71-87 (SCI).
31. **Liao, T.Y.**, J. Arroyave & M. Stiassny\*. 2012. Diagnosis of Asian *Raiamas* (Teleostei: Cyprinidae: Chedrina) with comments on chedrin relationships and previously proposed diagnostics for *Opsaridium* and *Raiamas*. *Ichthyological Research*, 59: 328-341 (SCI).
32. Yang, J.Q., W.Q. Tang, **T.Y. Liao**, Y. Sun, Z.C. Zhou, C.C. Han, D. Liu & Hung-Du Lin\*. 2012. Phylogeographical analysis on *Squalidus argentatus* recapitulates historical landscapes and drainage evolution on the island of Taiwan and Mainland China. *International Journal of Molecular Sciences*, 13: 1405-1425. (SCI).

33. **Liao, T.Y.**, S.O. Kullander & Hong-Du Lin\*. 2011. Synonymization of *Pararasbora*, *Yaoshanicus*, and *Nicholsicypris* with *Aphyocypris*, and description of a new species of *Aphyocypris* from Taiwan (Teleostei: Cyprinidae). *Zoological Studies*, 50: 657-664 (SCI).
34. **Liao\***, **T.Y.**, S.O. Kullander & F. Fang. 2011. Morphological phylogenetic analysis of rasborin fishes (Teleostei: Cyprinidae: Danioninae). *Journal of Systematic Zoology and Evolutionary Research*, 49: 224-232 (SCI).
35. **Liao\***, **T.Y.**, E. Ünlü & S.O. Kullander. 2011. The western boundary of the Danioninae in Asia (Teleostei, Cyprinidae): inferred from the systematic position of *Barilius mesopotamicus* based on molecular and morphological data. *Zootaxa*, 2880: 31–40 (SCI).
36. **Liao, T.Y.** & H.H. Tan\*. 2011. *Brevibora cheeeya*, a new species of cyprinid fish from Malay Peninsula and Sumatra. *Raffles Bulletin of Zoology*, 59: 75-80 (SCI).
37. Pramod, P.K., F. Fang, K. Remadevi, **T.Y. Liao**, T.J. Indra, K.S. Jameela Beevi & S.O. Kullander\*. 2010. *Betadevario ramachandrani*, a new danionine genus and species from the Western Ghats of India (Teleostei: Cyprinidae: Danioninae). *Zootaxa*, 2519: 31-47 (SCI).
38. **Liao\***, **T.Y.**, S.O. Kullander & F. Fang. 2010. Phylogenetic analysis of the genus *Rasbora* (Teleostei: Cyprinidae). *Zoologica Scripta*, 39: 155-176 (SCI).
39. Kullander, S.O., **T.Y. Liao** & F. Fang\*. 2009. *Danio quagga*, a new species of striped danio from western Myanmar (Teleostei: Cypriniformes: Cyprinidae). *Ichthyological Exploration of Freshwaters*, 20: 193-199 (SCI).
40. Fang, F., M. Norén, **T.Y. Liao**, M. Källersjö & S.O. Kullander\*. 2009. Molecular phylogenetic interrelationships of the south Asian cyprinid genera *Danio*, *Devario* and *Microrasbora* (Teleostei, Cyprinidae, Danioninae). *Zoologica Scripta*, 38, 237-256 (SCI).
41. **Liao\***, **T.Y.**, C.C. Pan & C.S. Tzeng. 2008. Migration of *Sinogastromyzon puliensis* (Teleostei: Balitoridae) in the Choshui River, Taiwan. *Ichthyological Exploration of Freshwaters*, 19: 193-200 (SCI).
42. **Liao, T.Y.**, T.Y. Wang, H.D. Lin, S.C. Shen, & C.S. Tzeng\*. 2008. Phylogeography of the Endangered Species, *Sinogastromyzon puliensis* (Cypriniformes: Balitoridae), in Southwestern Taiwan Based on mtDNA. *Zoological Studies*, 47: 383-392 (SCI).
43. Wang, T.Y., **T.Y. Liao** & C.S. Tzeng\*. 2007. Phylogeography of the Endemic Hillstream Loaches, *Hemimyzon formos anum* (Boulenger) and *H. taitungensis* Tzeng and Shen (Cypriniformes: Balitoridae). *Zoological Studies*, 46: 547-560 (SCI).
44. **Liao, T.Y.** & C.S. Tzeng\*. 2002. A new record species of homalopterid loach of Yunnan, China. *Zoological Research*, 23: 527-529. (in Chinese with English abstract).

#### Book

45. Yang, C.H., T.J. Tseng, R.S. Lin, C.S. Tzeng and **T.Y. Liao**. 2017. The Red List of Freshwater Fishes of Taiwan (ISBN: 978-986-05-1742-2). Endemic Species Research Institute, COA, EY, R.O.C., Forestry Bureau, COA, EY, R.O.C.
46. **Liao, T.Y.** 2010. A phylogenetic analysis of rasborin fishes (Teleostei: Cyprinidae)(ISBN: 978-91-7447-165-6). Department of Zoology, Stockholm University. Nov, 2010.