



## **Hsieh, Chia-Yu**

**Associate Professor**

**Professional specialty** : Aquatic Animal Medicine

### **Courses Taught :**

Undergraduate : Diseases of Aquatic Animal, Diseases of Aquarium Fish

Graduate : Special Topics in Aquatic Animal Diseases, Special Topics in Bacterial Fish Pathogens

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### **Educational background**

- 2002, 7-2008, 1 Ph.D, National Pingtung University of Science and Technology, Taiwan
- 1998, 9-2000, 7 MS, National Pingtung University of Science and Technology, Taiwan
- 1997, 9-2000, 7 BS, National Pingtung University of Science and Technology, Taiwan
- 1987, 9-1992, 7 BS, Department of Veterinary Medicine, National Cha Yi University, Taiwan

### **Current position and professional career**

- 2022, 2- Associate professor, National Chung-Hsing University
- 2017, 2-2022, 1 Assistant professor, National Chung-Hsing University
- 2004, 5-2017, 2 Veterinarian, Veterinary Medicine Teaching Hospital, National Pingtung University of Science and Technology
- 2010, 1-2017, 1 Chief of Southern Taiwan Aquatic Animal Disease Diagnostic Center, National Pingtung University of Science and Technology
- 2000, 9-2004, 5 Associate Technical Specialist, Animal Health and Inspection Institute, Bureau of Economic Affairs, Kaohsiung City Government

### **Honors**

The award of academic research thesis in Doctor, National Pingtung University of Science and Technology, Taiwan (2008)

### **Research topics interested**

Our lab has a modern, well equipped laboratory which facilitates national and international commitments in relation to the diagnosis and control of fish and shellfish diseases. There are five main sections within the unit: parasitology, histology, bacteriology, virology and molecular diagnostics, which focused on emerging infectious diseases in aquatic animal. (e.g., Crayfish plague, Francisellosis, Mycobacteriosis, Epizootic ulcerative syndrome, Cyprinid herpesvirus...)

### **Selected publications**

1. **Chia-Yu Hsieh**, Tirawat Rairat, Chi-Chung Chou (2021) Detection of Ranavirus by PCR and in situ hybridization in the American bullfrog (*Rana catesbeiana*) in Taiwan
2. Tirawat Rairat, Yu Chi, S-K Chang, **C-Y Hsieh**, N Chuchird, CC Chou (2021) Differential effects of aquatic anaesthetics on the pharmacokinetics of antibiotics: Examples using florfenicol in Nile tilapia (*Oreochromis niloticus*)
3. Tirawat Rairat, Yu Chi, **ChiaYu Hsieh**, Yi-Kai Liu, Niti Chuchird, Chi-Chung Chou (2021)

Determination of Optimal Doses and Minimum Effective Concentrations of Tricaine Methanesulfonate, 2-Phenoxyethanol and Eugenol for Laboratory Managements in Nile Tilapia (*Oreochromis niloticus*)

4. Tirawat Rairata, **Chia-Yu Hsieh**, Wipavee Thongpiama, N. Chuchird, Chi-Chung Choua (2020) Temperature-dependent nonlinear pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*) and its implementation in optimal dosing regimen determination
5. Tirawat Rairat, Wipavee Thongpiam, **Chia-Yu Hsieh**, YiKai Liu, Suriyan Tunkijjanuki, Chi-Chung Chou (2020) Salinity-dependent pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*) and its implication in optimal dosing regimen
6. Tirawat Rairat, YuShin Kuo, Chao-Chia Chang, **Chia-Yu Hsieh**, ChiChung Chou (2020) Bath immersion pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*)
7. Tirawat Rairat, **Chia-Yu Hsieh**, Wipavee Thongpiam, Chi-Hsuan Sung, ChiChung Chou (2019) Temperature-dependent pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*) following single oral and intravenous administration
8. Tirawat Rairat, **Chia-Yu Hsieh**, Wipavee Thongpiam, Chi-Chung Chou (2019) Pharmacokinetic– pharmacodynamic modelling for the determination of optimal dosing regimen of florfenicol in Nile tilapia (*Oreochromis niloticus*) at different water temperatures and antimicrobial susceptibility levels
9. **Hsieh, C.Y.**\*, Huang, C.W., Pan, Y.C., (2016) Crayfish plague *Aphanomyces astaci* detected in redclaw crayfish, *Cherax quadricarinatus* in Taiwan. Journal of Invertebrate Pathology 136, 117-123. (SCI)
10. Tu C, **C.Y. Hsieh**, S.M. Huang, S.K. Chang, M.M. Chen (2014) Production of monoclonal antibody against ORF72 of koi herpesvirus isolated in Taiwan. Folia Microbiol (Praha) 59(2):159-65. (SCI)
11. Chiu K. C., **C. Y. Hsieh**, T. C. Chang, Y. C. Lin, S. C. Hu, F. I. Wang (2014) Frequent Presence of Porcine Teschovirus Antigens in Visceral and Lymphoid Organs of Nonsuppurative Encephalitic Pigs in the Endemic Field Situation. Taiwan Veterinary Journal Vol. 40, No. 01: 49-55.
12. Tu C, **C.Y. Hsieh**, S.K. Chang, J.F. Su and M.M. Chen (2013) Development of a cell line from the gill of koi and molecular characterization of KHV isolated in Taiwan. African Journal of Microbiology Research 7(28): 3665-3674. (SCI)
13. **Hsieh, C. Y.**, Z. B. Wu, M. C. Tung, S. S. Tsai (2007) PCR and *in situ* hybridization for the detection and localization of a new pathogen *Francisella*-like bacterium (FLB) in ornamental fish. Diseases of Aquatic Organisms 75: 29-36. (SCI)
14. Lien Y. Y., J. W. Lee, H. Y. Su, H. J. Tsai, M. C. Tsai, **C. Y. Hsieh**, S. S. Tsai (2007) Phylogenetic characterization of Newcastle disease viruses isolated in Taiwan during 2003

- to 2006. *Veterinary Microbiology* 20;123(1-3): 194-202. **(SCI)**
15. Chang, T.C., **C. Y. Hsieh**, C. D. Chang, Y. L. Shen, K. C. Huang, C. Tu, L. C. Chen, Z. B. Wu, S. S. Tsai (2006) Pathological and molecular studies on mycobacteriosis of milkfish *Chanos chanos* in Taiwan. *Diseases of Aquatic Organisms* 72: 147-151. **(SCI)**
16. **Hsieh, C. Y.**, M. C. Tung, C. Tu, C. D. Chang, S. S. Tsai (2006) Enzootics of visceral granulomas associated with *Francisella*-like organism infection in Tilapia (*Oreochromis* spp.). *Aquaculture* 254: 129-138. **(SCI)**
17. **Hsieh, C. Y.**, P. C. Chuang, L. C. Chen, C. Tu, M. S. Chien, K. C. Huang, H. F. Kao, M. C. Tung, S. S. Tsai (2006) Infectious hypodermal and haematopoietic necrosis virus (IHHNV) infections in giant freshwater prawn, *Macrobrachium rosenbergii*. *Aquaculture* 258: 73-79. **(SCI)**
18. **Hsieh, C. Y.**, Z. B. Wu, M. C. Tung, C. Tu, S. P. Lo, T. C. Chang, C. D. Chang, S. C. Chen, Y. C. Hsieh, S. S. Tsai (2006) *In situ* hybridization and RT-PCR detection of *Macrobrachium rosenbergii* nodavirus in giant freshwater prawn (*Macrobrachium rosenbergii*) in Taiwan. *Journal of Fish Diseases* 29: 665-671. **(SCI)**
19. **Hsieh, C. Y.**, T. C. Chang, Y. L. Shen, C. D. Chang, C. Tu, M. C. Tung, L. C. Chen, S. S. Tsai (2006) Pathological and PCR detection of mycobacteriosis in pond-cultured Chinese soft shell turtles, *Trionyx sinensis*. *Aquaculture* 261: 10-16. **(SCI)**

Updated: 2017/02/01