



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

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|-----------------|---|
| 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

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|-----------------|---|
| 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 focuses on emerging infectious diseases in aquatic animal. (e.g., Crayfish plague, Francisellosis, Mycobacteriosis, *Macrobrachium rosenbergii* nodavirus, Nervous necrosis virus, Epizootic ulcerative syndrome, Cyprinid herpesvirus, *Austwickia chelonae* in reptiles, Fish flavobacteriosis...)

Selected publications

1. Wu, S. T., and **Hsieh, C. Y.** ^{*} (2026). First Report of *Tenacibaculum maritimum* Infection in Grouper (*Epinephelus* spp.) Aquaculture in Taiwan. *Journal of fish diseases*, e70308. <https://doi.org/10.1111/jfd.70308> (SCI)
2. Raghav, R. K., Police Patil, A. V., Wu, S. T., **Hsieh, C. Y.** ^{*}, and Wu, C. C. ^{*} (2026). Disposable Au-BTC nanocomposite-coated screen-printed carbon electrodes constructed as aptasensors for detecting *Vibrio harveyi*. *Electrochimica Acta*, 576, 149650. <https://doi.org/10.1016/j.electacta.2026.149650> (SCI)
3. Wu, S. T., Lin, Y. S., and **Hsieh, C. Y.** ^{*} (2026). Isolation and Identification of *Erysipelothrix* sp. in Hybrid Grouper (*Epinephelus fuscoguttatus* × *E. lanceolatus*) in Taiwan. *Journal of fish diseases*, e70262. <https://doi.org/10.1111/jfd.70262> (SCI)
4. Wu, S. T., and **Hsieh, C. Y.** ^{*} (2026). Outbreaks of Granulomatous Disease Associated with *Vibrio harveyi* Infection in Grouper (*Epinephelus fuscoguttatus* × *E. lanceolatus*) Aquaculture in Taiwan. *Journal of fish diseases*, 49(11), e70213. <https://doi.org/10.1111/jfd.70213> (SCI)
5. **Hsieh, C. Y.** ^{*}, Wu, S. T., and Lin, C. Y. (2026). *In Situ* Hybridization and RT-PCR Detection of Nervous Necrosis Virus in Fourfinger Threadfin, *Eleutheronema tetradactylum*, in Taiwan. *Journal of fish diseases*, 49(10), e70205. <https://doi.org/10.1111/jfd.70205> (SCI)
6. **Hsieh, C. Y.** ^{*}, Wu, S. T., Chang, Y. L., Chen, Y. F., and Lin, C. Y. (2026). *Austwickia chelonae*-associated cutaneous and plastron lesions in Chinese stripe-necked turtles (*Mauremys sinensis*). *Veterinary pathology*, 63(4), 722–727. <https://doi.org/10.1177/03009858261420319> (SCI)
7. **Hsieh, C. Y.** ^{*}, Rairat, T., and Chou, C. C. (2021). Detection of Ranavirus by PCR and *in situ* hybridization in the American bullfrog (*Rana catesbeiana*) in Taiwan. *Aquaculture*, 543, 736955. <https://doi.org/10.1016/j.aquaculture.2021.736955> (SCI)
8. Rairat, T., Chi, Y., Chang, S. K., **Hsieh, C. Y.**, Chuchird, N., and Chou, C. C. (2021). Differential effects of aquatic anaesthetics on the pharmacokinetics of antibiotics: Examples using florfenicol in Nile tilapia (*Oreochromis niloticus*). *Journal of fish diseases*, 44(10), 1579–1586. <https://doi.org/10.1111/jfd.13480> (SCI)
9. Rairat, T., Chi, Y., **Hsieh, C. Y.**, Liu, Y. K., Chuchird, N., and Chou, C. C. (2021). Determination of Optimal Doses and Minimum Effective Concentrations of Tricaine Methanesulfonate, 2-Phenoxyethanol and Eugenol for Laboratory Managements in Nile Tilapia (*Oreochromis niloticus*). *Animals*, 11(6), 1521. <https://doi.org/10.3390/ani11061521> (SCI)
10. Rairata, T., **Hsieh, C. Y.**, Thongpiama, W., Chuchird N., and Chou, C. C. (2020) Temperature-dependent non-linear pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*) and its implementation in optimal dosing regimen determination. *Aquaculture*, 517, 734794. <https://doi.org/10.1016/j.aquaculture.2019.734794> (SCI)
11. Rairat, T., Thongpiam, W., **Hsieh, C. Y.**, Liu, Y. K., Tunkijjanukij, S., and Chou, C. C. (2020). Salinity-dependent pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*) and its implication in optimal dosing regimen. *Aquaculture*, 519, 734900. <https://doi.org/10.1016/j.aquaculture.2019.734900> (SCI)
12. Rairat, T., Kuo, Y. S., Chang, C. C., **Hsieh, C. Y.**, and Chou, C. C. (2020). Bath immersion pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*). *Journal of veterinary pharmacology and therapeutics*, 43(6), 520–526. <https://doi.org/10.1111/jvp.12887> (SCI)
13. Rairat, T., **Hsieh, C. Y.**, Thongpiam, W., Sung, C. H., and Chou, C. C. (2019). Temperature-dependent pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*) following single oral and intravenous administration. *Aquaculture*, 503, 483–488. <https://doi.org/10.1016/j.aquaculture.2018.12.081>

(SCI)

14. Rairat, T., **Hsieh, C. Y.**, Thongpiam, W., and Chou, C. C. (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. *Journal of fish diseases*, 42(8), 1181–1190. <https://doi.org/10.1111/jfd.13040> (SCI)
15. **Hsieh, C. Y.***, Huang, C. W., and Pan, Y. C. (2016). Crayfish plague *Aphanomyces astaci* detected in redclaw crayfish, *Cherax quadricarinatus* in Taiwan. *Journal of invertebrate pathology*, 136, 117–123. <https://doi.org/10.1016/j.jip.2016.03.015> (SCI)
16. Tu, C., Lu, Y. P., **Hsieh, C. Y.**, Huang, S. M., Chang, S. K., and Chen, M. M. (2014). Production of monoclonal antibody against ORF72 of koi herpesvirus isolated in Taiwan. *Folia microbiologica*, 59(2), 159–165. <https://doi.org/10.1007/s12223-013-0261-7> (SCI)
17. Chiu, K. C., **Hsieh, C. Y.**, Chang, T. C., Lin, Y. C., Hu, S. C., and Wang, F. I. (2014) Frequent Presence of Porcine Teschovirus Antigens in Visceral and Lymphoid Organs of Nonsuppurative Encephalitic Pigs in the Endemic Field Situation. *Taiwan Veterinary Journal*, 40(1), 49–55. <https://doi.org/10.1142/S1682648514500061>
18. Tu, C., **Hsieh, C. Y.**, Chang, S. K., Su, J. F., and Chen, M. M. (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. <https://doi.org/10.5897/AJMR2013.5723>
19. **Hsieh, C. Y.**, Wu, Z. B., Tung, M. C., and Tsai, S. S. (2007). PCR and *in situ* hybridization for the detection and localization of a new pathogen *Francisella*-like bacterium (FLB) in ornamental cichlids. *Diseases of aquatic organisms*, 75(1), 29–36. <https://doi.org/10.3354/dao075029> (SCI)
20. Lien, Y. Y., Lee, J. W., Su, H. Y., Tsai, H. J., Tsai, M. C., **Hsieh, C. Y.**, and Tsai, S. S. (2007). Phylogenetic characterization of Newcastle disease viruses isolated in Taiwan during 2003–2006. *Veterinary microbiology*, 123(1–3), 194–202. <https://doi.org/10.1016/j.vetmic.2007.03.006> (SCI)
21. Chang, T. C., **Hsieh, C. Y.**, Chang, C. D., Shen, Y. L., Huang, K. C., Tu, C., Chen, L. C., Wu, Z. B., and Tsai, S. S. (2006). Pathological and molecular studies on mycobacteriosis of milkfish *Chanos chanos* in Taiwan. *Diseases of aquatic organisms*, 72(2), 147–151. <https://doi.org/10.3354/dao072147> (SCI)
22. **Hsieh, C. Y.**, Tung, M. C., Tu, C., Chang, C. D., and Tsai, S. S. (2006) Enzootics of visceral granulomas associated with *Francisella*-like organism infection in Tilapia (*Oreochromis* spp.). *Aquaculture*, 254(1), 129–138. <https://doi.org/10.1016/j.aquaculture.2006.03.044> (SCI)
23. **Hsieh, C. Y.**, Chuang, P. C., Chen, L. C., Tu, C., Chien, M. S., Huang, K. C., Kao, H. F., Tung, M. C., and Tsai, S. S. (2006) Infectious hypodermal and haematopoietic necrosis virus (IHHNV) infections in giant freshwater prawn, *Macrobrachium rosenbergii*. *Aquaculture*, 258, 73–79. <https://doi.org/10.1016/j.aquaculture.2006.04.007> (SCI)
24. **Hsieh, C. Y.**, Wu, Z. B., Tung, M. C., Tu, C., Lo, S. P., Chang, T. C., Chang, C. D., Chen, S. C., Hsieh, Y. C., and Tsai, S. S. (2006). *In situ* hybridization and RT-PCR detection of *Macrobrachium rosenbergii* nodavirus in giant freshwater prawn, *Macrobrachium rosenbergii* (de Man), in Taiwan. *Journal of fish diseases*, 29(11), 665–671. <https://doi.org/10.1111/j.1365-2761.2006.00762.x> (SCI)
25. **Hsieh, C. Y.**, Chang, T. C., Shen, Y. L., Chang, C. D., Tu, C., Tung, M. C., Chen, S. S. and Tsai, S. S. (2006). Pathological and PCR detection of mycobacteriosis in pond-cultured Chinese soft shell turtles, *Trionyx sinensis*. *Aquaculture*, 261(1), 10–16. <https://doi.org/10.1016/j.aquaculture.2006.07.005> (SCI)