



## **Chou, Chi-Chung**

**Lifetime Distinguished Professor**  
**Vice President, Dean of International Affairs**  
**College of Veterinary Medicine**

**Specialty:** Analytical Pharmacology, Food Safety  
Pharmacokinetics, Clinical Pathology

### **Courses Taught :**

**Undergraduate:** Clinical Pathology, Principle    Pharmacokinetics,  
Veterinary Public Health

**Graduate:** Biomedical Analysis, Critical Review on Scientific  
Papers in Clinical Medicine (Taught in English)

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### **Education background**

Ph. D., University of Florida, College of Veterinary Medicine, USA 2001  
MS, National Chung-Hsing University, Department of Veterinary Medicine    1992  
BVMs, DVM, National Chung-Hsing University, Department of Veterinary Medicine 1990

### **Current Position and Professional Career**

Vice President, Dean of International Affairs    2023.8-  
Dean, Office of Research and Development, NCHU 2018.8-2021.2  
Dean, College of Veterinary Medicine, NCHU 2015.2-2018.1  
Lifetime Distinguished Professor, National Chung-Hsing University 2019. 8-  
Distinguished Professor, National Chung-Hsing University 2012.8—2014.7,    2017.8-2019.7  
Section Head, Diagnostic Lab, Veterinary Medical Teaching Hospital, NCHU 2012-2015,    2018.2-  
Joint Appointment Professor, National Defense Medical Center, 2018-  
Deputy Dean, Office of Academic Affairs, National Chung-Hsing University 2012.2—2014.2  
Deputy Dean, Office of International Affairs, National Chung-Hsing University 2010.9—2011.8  
Director, Office of International Affairs, National Chung-Hsing University 2007.9—2009.2  
Visiting scholar, University of Florida, 2011 ; North Carolina State University, 2007  
Professor, National Chung-Hsing University 2010. 8—  
Assistant and Associate Professor, National Chung-Hsing University 2002.8- 2007.2-2010.8

### **Honors**

National exam for Civil service and Board certified Veterinarian (First place) 1992.3.5  
Most Grant Award, National Chung-Hsing University 2006. 8 - 2007.7  
Best Teaching and Service Award, College of Veterinary Medicine, NCHU    2006. 9 - 2007. 6  
Best Mentor Award, National Chung-Hsing University 2008. 9  
Dr. Robert C. T. Lee Distinguish Teaching and Research Award 2016

### **Research Awards and Patents**

Featured Cover, Journal of Fish Disease, 2019 42:8 1181-1190 & 2021 44(10):1579-1586  
The Best Paper Award in 2006 by Cutaneous and Ocular Toxicology (Awarded at the Dermal Section of Society of Toxicology. SOT, 2007)  
Special report by SeparationsNOW.com, *One kebab, but hold the pigeon*  
Patent: HPLC-EC detection method for meat species identification and freshness evaluation (Taiwan Patent No.: I 316134)  
Patent: Combination of amphenicol antibiotics and the use there of (Taiwan Patent No.: I615140)  
Patent: Method for identification/differentiation of bacterial species and strains by using profiling of amino acids consumption pattern (Taiwan Patent No. I532841)  
Patent: Combination of tetracycline antibiotics and the use thereof (Taiwan Patent No. I415602)

### **Research Interest:**

Pharmacokinetics in aquatic species, Development of HPLC and CE methods for biomedical and food safety applications, drug residues, pathogen identification & disease diagnosis

### **Selected Publications (Corresponding authors after 2020)**

1. Liu, Y. K., Kuo, H.C., Lai, C.H and Chou, C. C.\* (2020) Single amino acid utilization for bacterial categorization. Scientific Report 10:12686 doi:10.1038/s41598-020-69686-5 (SCI, 14%)
2. 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* Vol. 519 (SCI, 9%, IF=3.225)
3. Rairat, T., Hsieh, C.Y., Thongpam, W., 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* Vol. 517 4 (SCI, 9%, IF=3.225)
  4. Lin, T.L., Ou, S.C., Maeda, K., Shimoda, K., Chan, J.P.W., Tu, W.C., Hsu, W.L.\* and Chou, C.C.\* (2020) The First Discovery of Severe Fever with Thrombocytopenia Syndrome Virus in Taiwan. *Emerging Microbes & Infections* Jan 10; 9(1):148-151 (SCI, 14%, IF=6.212)
  5. 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 DOI: 10.1111/jvp.12887 (SCI, 35%, IF=1.473)
  6. Rairat, T., Chi, Y., Chang, S.K., Hsieh, C.Y., Chuchird, N. and Chou, C.C.\* (2021) Differential effects of aquatic anesthetics on the pharmacokinetics of antibiotics: Examples using florfenicol in Nile tilapia (*Oreochromis niloticus*) *Journal of Fish Disease*: DOI:10.1111/jfd.13480 (SCI, 10%)
  7. 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 (SCI, 10%, IF=2.323) <https://doi.org/10.3390/ani11061521>
  8. Rairat, T., Chi, Y., Chang, S.K., Hsieh, C.Y., Chuchird, N. and Chou, C.C.\* (2021) Differential effects of aquatic anesthetics on the pharmacokinetics of antibiotics: Examples using florfenicol in Nile tilapia (*Oreochromis niloticus*) *Journal of Fish Disease* 44(10):1579-1586. DOI: 10.1111/jfd.13480 (SCI, 12%, IF=2.767) **Featured cover article**
  9. Rairat, T., Hsu, JCN., Lu, Y.P., Chen, SM., Liu, YK and Chou, CC\* (2022) Determination of temperature-dependent optimal oral doses of florfenicol and corresponding withdrawal times in Nile tilapia (*Oreochromis niloticus*) reared at 25 and 30°C *Aquaculture* 561 738719 (SCI, 7%, IF=5.135)
  10. Rattanapanadda, P., Kuo, H.C., Chang, S.K., Tell, L.A., Shia, W.Y and Chou, C.C.\* (2022) Effect of Carbonyl Cyanide Chlorophenylhydrazone on Intrabacterial Concentration and Antimicrobial Activity of Amphenicols against Swine Resistant *Actinobacillus pleuropneumoniae* and *Pasteurella multocida* *Veterinary Research Communication* 46(3):903-916. (SCI, 22%, IF=2.459)
  11. Rairat, T., Liu, Y.K., Hsu, JCN., Hsieh, CY., Niti Chuchird and Chou, CC.\* (2022) Combined Effects of Temperature and Salinity on the Pharmacokinetics of Florfenicol in Nile Tilapia (*Oreochromis niloticus*) Reared in Brackish Water. *Front. Vet. Sci., Veterinary Pharmacology and Toxicology* 9: 826586 <https://doi.org/10.3389/fvets.2022.826586> (SCI, 6%, IF=3.412) JCI 9%
  12. Kuan, C.Y., Lin, T.L., Ou, S.C. et al., Hsu, W.L., \* and Chou, C.C.\* (2023) The First Nationwide Surveillance of Severe Fever with Thrombocytopenia Syndrome in Ruminants and Wildlife in Taiwan. *Viruses* 15(2), 441 (SCI, 30%, IF=4.7)
  13. Rairat, T., Hsieh, MK., Lu, YP., Ho, WC., Wu, HC., Chou, CC\*(2023) Effects of starvation on the pharmacokinetics and optimal dosages of florfenicol in Asian seabass (*Lates calcarifer*) *Journal of Veterinary Pharmacology and Therapeutics*. 46 (2) 136-143 (SCI, 51%, IF=1.563)
  14. Rairat, T., Hsieh, MK., Ho, WC., Lu, YP., Fu, ZY., Chuchirda, N., Chou, CC\*. (2023) Effects of temperature on the pharmacokinetics, optimal dosage, tissue residue, and withdrawal time of florfenicol in Asian seabass (*Lates calcarifer*). *Food Additives & Contaminants: Part A* 2022 Dec 15;1-12 <https://doi.org/10.1080/19440049.2022.2155710> (SCI, 38%, IF=3.549)

#### Translated Books

1. **Chi-Chung Chou**, Book translation. *Veterinary Laboratory Medicine-Interpretation and Diagnosis* by Denny Meyer and John Harvey. Elsevier Inc. (ISBN 0-7216-8926-4) **2007**
2. **Chi-Chung Chou**, Book translation. Donald J Birkett and Australian Prescriber, *Pharmacokinetics Made Easy*, 2nd Ed. ◦ Mc Graw Hill (ISBN 9780070285279), **2011/12**
3. **Chi-Chung Chou**, ◦ Book translation. Susan M. Cotter, *Quick Look Series in Veterinary Medicine: Hematology*. Teton Newsmedia (ISBN 1-893441-36-9) 2016
4. **Chi-Chung Chou**, ◦ Book Editor. John Harvey: *Veterinary Hematology: A Diagnostic Guide and Color Atlas* ◦ Elsevier Ltd. ISBN( 9-781437-701739) 2016