



## **Wu, Ching Fen**

**Assistant Professor**

**Professional specialty:**

Molecular Pharmacology of Natural Products,  
Development of diagnostic biomarkers

**Lectures:**

Veterinary Clinical Pathology, Veterinary  
Pharmacology, Veterinary Toxicology,  
Veterinary Immunology, Veterinary Nutrition

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### **Educational Background**

Ph.D., Institute of Pharmacy and Biochemistry, Johannes Gutenberg-Universität Mainz, Germany

Master of Science, Institute of Traditional Medicine, National Yang-Ming University, Taiwan

Bachelor of Veterinary Science, National Chung-Hsing University, Taiwan

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

Assistant Professor, Department of Veterinary Medicine, NCYU, 08/2019-now

### **Honors**

NSC-DAAD sandwich program, 2012/3-2013/8.

### **Areas of Interest and Achievements**

Molecular pharmacology of natural products, molecular mechanism of liver diseases,  
Development of diagnostic biomarker

### **Selected Publications**

1. Fang CC\*, **Wu CF\***, Liao YJ, Huang SF, Chen M, Chen YM. AAV serotype 8-mediated liver specific GNMT expression delays progression of hepatocellular carcinoma and prevents carbon tetrachloride-induced liver damage. *Sci. Rep.*, 2018, 8(1):13802. (\*:equal contribution)

2. **Wu CF**, Efferth T. (2017) Anticancer activity of Salvia miltiorrhiza secondary metabolites, in Salvia Biotechnology (eds V. Georgiev and A. Pavlov), Springer International Publishing. pp. 179-208. Doi: 10.1007/978-3-319-73900-7\_5
3. Hong C, Cao J, **Wu CF**, Kadioglu O, Schüffler A, Kauh U, Opatz T, Thines E, Efferth T. The Chinese herbal formula Free and Easy Wanderer ameliorates oxidative stress through Keap1-Nrf2/HO-1 pathway. *Sci. Rep.* 2017, 7(1):11551.
4. Hong C, Schüffler A, Kauh U, Cao J, **Wu CF**, Opatz T, Thines E, Efferth T. Identification of NF-κB as determinant of posttraumatic stress disorder and its inhibition by the Chinese herbal remedy Free and Easy Wanderer. *Front. Pharmacol.* 2017, 8:181.
5. Seo EJ, **Wu CF**, Ali Z, Wang YH, Khan SI, Walker LA, Khan IA, Efferth T. Both Phenolic and Non-phenolic Green Tea Fractions Inhibit Migration of Cancer Cells. *Front. Pharmacol.* 2016, 7:398.
6. Efferth T, Banerjee M, Paul N, Abdelfatah S, Arend J, Elhassan G, Hamdoun S, Hamm R, Hong C, Kadioglu O, Naß J, Ochwangi D, Ooko E, Ozenver N, Saeed M, Schneider M, Seo EJ, **Wu CF**, Yan G, Zeino M, Zhao Q, Abu-Darwish M, Andersch K, Alexie G, Bessarab D, Bhakta-Guha D, Bolzani V, Dapat E, Donenko F, Efferth M, Greten H, Gunatilaka L, Hussein A, Karadeniz A, Khalid H, Kuete V, Lee IS, Liu L, Midiwo J, Mora R, Nakagawa H, Ngassapa O, Noysang C, Omosa L, Roland FH, Shahat A, Saab A, Saeed E, Shan L, Titinchi S. Biopiracy of natural products and good bioprospecting practice. *Phytomedicine*. 2016, 23(2): 166-173.
7. **Wu CF**, Seo EJ, Klauck SM, Efferth T. Cryptotanshinone deregulates unfolded protein response and eukaryotic initiation factor signaling in acute lymphoblastic cells. *Phytomedicine* 2016, 23(2): 174-180.
8. **Wu CF**, Bohnert S, Thines E, Efferth T. Cytotoxicity of the root extract of Salvia miltiorrhiza against multidrug-resistance cancer cells. *Am. J. Chin. Med.* 2016, 44(4): 871-894.
9. **Wu CF**, Karioti A, Rohr D, Bilia AR, Efferth T. Production of rosmarinic acid and salvianolic acid B from callus culture of Salvia miltiorrhiza with cytotoxicity towards acute lymphoblastic leukemia cells. *Food Chem.* 2016, 201: 292-297.
10. **Wu CF**, Klauck SM, Efferth T. Anticancer activity of cryptotanshinone on acute lymphoblastic leukemia cells. *Arch. Toxicol.* 2016, 90(9): 2275-2286.

11. Seo EJ, **Wu CF**, Greten HJ, Efferth T. (2015) Epidermal growth factor receptors and downstream signalling pathways as cancer treatment targets for medicinal plants, in *Ethnopharmacology* (eds M. Heinrich and A. K. Jäger), John Wiley & Sons, Ltd, Chichester, UK. pp.169-178. Doi:10.1002/9781118930717.ch16
12. **Wu CF**, Hong C, Klauck SM, Lin, YL, Efferth T. Molecular mechanisms of rosmarinic acid in acute lymphoblastic leukemia cells. *J. Ethanolpharmacol.* 2015, 176:55-68.
13. **Wu CF**, Efferth T. Miltirone induces G2/M cell cycle arrest and apoptosis in CCRF-CEM acute lymphoblastic leukemia cells. *J. Nat. Prod.* 2015, 78(6):1339-1347.
14. Dörsam B, **Wu CF**, Efferth T, Kaina B, Fahrer J. The eucalyptus oil ingredient 1,8-cineol induces oxidative DNA damage. *Arch. Toxicol* 2015, 89(5):797-805.
15. Hamm R, Chen YR, Seo EJ, Zeino M, **Wu CF**, Müller R, Yang NS, Efferth T. Induction of cholesterol biosynthesis by archazolid B in T24 bladder cancer cells. *Biochem. Pharmacol.* 2014, 91(1):18-30.
16. **Wu CF**, Lin YL, Huang YT. Hepatitis C virus core protein stimulates fibrogenesis in hepatic stellate cells involving the obese receptor. *J. Cell. Biochem.* 2013, 114(3):541-550

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