



## **Chen, Po-Wen, Associate Professor**

**Research Interests:** probiotics and lactoferrin related studies, control or treatment of Non-alcoholic fatty liver disease (NAFLD), anti-microorganisms, anti-cancer, anti-inflammation, maintain the health of aquatic animals, gut microbiome, microbiota and host health, causes and treatments of urethritis, antibiotic-resistance related studies, development of alternative therapies.

**Courses Taught:** Veterinary Pharmacology, Veterinary Physiology Tel: 04-22840368 ext:36

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### **Educational Background**

PhD, Department of Veterinary Medicine, National Chung-Hsing University

BS, Department of Veterinary Medicine, National Chung-Hsing University

### **Professional Career**

1. Associate Professor, Department of Veterinary Medicine, National Chung-Hsing University 2022/02
2. Assistant Professor, Department of Veterinary Medicine, National Chung-Hsing University 2019/02
3. Associated Professor, Department of Nursing, St. Mary's Junior College of Medicine, Nursing and Management 2014/02-2019/01
4. Assistant Professor, Department of Nursing, St. Mary's Junior College of Medicine, Nursing and Management 2010/08-2014/01
5. Dean of Student Affairs, St. Mary's Junior College of Medicine, Nursing and Management 2012/08-2015/07
6. Postdoctoral Fellow, Department of Microbiology, National Taiwan University 2005/12-2009/12
7. Associate Technical Specialist, Bureau of Animal and Plant Health Inspection and Quarantine, Council of Agriculture, Executive Yuan, Taichung city, Taiwan 1999/12 ~ 2000/08

### **Honors**

2010, 2012, 2015, 2016 Excellent homeroom teacher

2012, 2016 Good teaching faculty

2007-2008 Research Training Fellowship, National Taiwan University, Taiwan.

2005-2007 Research Training Fellowship, National Science Council, Taiwan.

2003 Honored as a member for the "Phi Tau Phi Scholastic Honor Society of the Republic of China".

1998 Honored as the outstanding graduate for the "Golden Key Award" from National Chung-Hsing University; Honored as a member for the "Phi Tau Phi Scholastic Honor Society of the Republic of China".

### **Selected Publications 2013-2021**

1. Liu ZS, Lin CF, and **Chen PW\***. 2021. Transcriptome analysis of *Lactobacillus rhamnosus* GG strain treated with prebiotic - bovine lactoferrin under a cold environment. *Journal of Food and Drug analysis*. In press. **IF: 6.079**
2. **Chen PW**, Kuo TC, Liu ZS\*, Lu HF. 2021. Assessment of the mutagenicity of two common indoor air pollutants, formaldehyde and toluene. *Indoor Air*. 2021;00:1-11 **IF: 5.770**
3. Liu ZS, Lin CF, Lee C-P, Hsieh M-C, Lu H-F, Chen Y-F, Ku Y-W, **Chen PW\***. 2021. A Single Plasmid of Nisin-Controlled Bovine and Human Lactoferrin Expressing Elevated Antibacterial Activity of Lactoferrin-Resistant Probiotic Strains. *Antibiotics (Basel)*, 0(2):120. **IF: 4.639**
4. **Chen PW\***, Kuo YH, Lin YL. 2020. The Impact of the Postpartum "Doing-the-Month" Practice on Human Milk Microbiota: A Pilot Study in Taiwan. *Microorganisms*. 8(9):1283. **IF: 4.128**

5. Huang MS, Cheng CC, Tseng SY, Lin YL, Lo HM, **Chen PW\***. 2019. Most commensally bacterial strains in human milk of healthy mothers display multiple antibiotic-resistance. *Microbiology Open*, 8:e618. **IF: 3.139**
6. **Chen PW\***, Lin YL, Huang MS. 2018. Profiles of commensal and opportunistic bacteria in human milk from healthy donors in Taiwan. *Journal of Food and Drug analysis*, 26:1235-1244 **IF: 6.079**
7. **Chen PW**, Liu ZS, Kuo TC. 2018. Assessment of cellular mutagenicity of one common air pollutant by using Ames assay. Conference on Environment and Sustainable Development, Nov 2-4, Singapore
8. Liu ZS, **Chen PW\***, Wang JY, Kuo TC. 2017. Assessment of cellular mutagenicity of Americano coffees from popular coffee chains. *Journal of Food Protection*, 9:1489-1495. **IF: 2.077**
9. **Chen PW\***, Liu ZS, Kuo TC, Hsien MC and Li ZW. 2017. Prebiotic effects of bovine lactoferrin on specific probiotic bacteria. *Biometals*, 30(2):237-248. **IF: 2.949**
10. **Chen PW**, Lin YL, Huang MS. 2017. Prevalence of Commensal and Pathogenic Bacteria in Human Milk at Different Lactational Stages and after Different Types of Delivery. ALPHA : Advancing the Life Sciences and Public Health Awareness, August 1-3, Hiroshima , JAPAN.
11. **Chen PW**, Liu ZS\*, Wun MJ, Kuo TC. 2016. Cellular Mutagenicity and Heavy Metal Concentrations of Leachates Extracted from the Fly and Bottom Ash Derived from Municipal Solid Waste Incineration. *Int J Environ Res Public Health*. 13: E1078. **IF: 3.390**
12. **Chen PW\***, Tseng SY and Huang MS. 2016. Antibiotic Susceptibility of Commensal Bacteria from Human Milk. *Curr Microbiol*, 72:113-119 **IF: 2.188**
13. **Chen PW**, Liu ZS\*, Wun MJ, Ran CL. 2015. Evaluating the mutagenicity of leachates obtained from the bottom ash of a municipal solid waste incinerator by using a Salmonella reverse mutation assay. *Chemosphere*, 124: 70-76. **IF: 7.086**
14. **Chen PW**, Liu ZS, Wun MJ. Evaluation of the Mutagenicity of Leachates Obtained from an Incinerator Fly Ash using a Salmonella Reverse Mutation Assay.2015. International Environmental Engineering Conference (IEEC). Oct 28-Oct 31, BEXCO, Busan, Korea.
15. **Chen PW**, Huang MS, Tseng SY. 2015. Lactobacillus and Enterococcus strains isolated from breast milk exhibit potential anti-bacterial activity against food-borne pathogens. PROBIOTICS SUMMIT. July 5-July 10, San Francisco, USA.
16. **Chen PW\***, Ku YW, Chu FY. 2014. Influence of bovine lactoferrin on the growth of selected probiotic bacteria under aerobic conditions. *Biometals*, 27:905-914 **IF: 2.949**
17. **Chen PW\***, Jheng TT, Shyu CL, Mao FC\*. 2013. Antimicrobial potential for the combination of bovine lactoferrin and its hydrolysate with probiotics against food-borne pathogens. *Journal of Dairy Science*, 96 :1438–1446. **IF: 4.034 (Rank: 6/63)**
18. **Chen PW**, Lin C, Chen CD, Chen WY, Mao FC\*. 2013. Chromium levels in insulin-sensitive tissues and thighbone are modulated by prednisone and high-fat diets in mice. *Biometals*, 26:347–354 **IF: 2.949**
19. Pan WR<sup>#</sup>, **Chen PW<sup>#</sup>**, Chen YLS, Hsu HC, Chen WJ\*. 2013. Bovine lactoferrin B induced apoptosis of human gastric cancer cell line AGS by inhibition of autophagy at a late stage. *Journal of Dairy Science*, 96:7511-20. **#contributed equally IF: 4.034 (Rank: 6/63)**
20. **Chen PW\***, Jheng TT, Shyu CL, Mao FC\*. 2013. Synergistic antibacterial efficacies of the combination of bovine lactoferrin or its hydrolysate with probiotic secretion in curbing the growth of methicillin-resistant *Staphylococcus aureus* (MRSA). *J Medical Microbiol*, 62: 1845–1851 **IF: 2.422**
21. Lin C<sup>#</sup>, **Chen PW<sup>#</sup>**, Chen W-Y, Sun CC, Mao FC\*. 2013. Glucagon and insulin have opposite effects on tissue chromium distribution in an obese mouse model. *J diabetes invest*, 4:528-532 **#contributed equally IF: 4.232**
22. **Chen PW**, Jhen TY, Shyu CL, Mao FC. 2013. Synergistic effects for the combination of bovine lactoferrin with probiotics against multi-drug resistant *staphylococcus aureus*. FAVA. Jan.4-Jul.7, Taiwan. P168.