

## 個人履歷

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### 學歷

博士	2003-2011	國立中興大學	微生物暨公共衛生學研究所
碩士	2001-2003	國立中興大學	獸醫病理生物學研究所
學士	1996-2001	國立中興大學	獸醫學系

### 經歷

1. 農業科技研究院動物科技研究所正研究員兼所長
2. 農業科技研究院動物科技研究所資深研究員兼所長
3. 農業科技研究院動物科技研究所動物醫學組資深研究員兼組長
4. 農業科技研究院動物科技研究所動物醫學組研究員
5. 台灣動物科技研究所動物醫學組副研究員
6. 中央研究院農業生物科技研究中心博士後研究員

### 研究領域及興趣

1. 產品開發：動物用疫苗、診斷試劑
2. 人與動物關係：肉品衛生、細菌抗藥性、動物實驗爭議
3. AIoT 技術應用：實驗室技術數位化、畜牧場管理與疾病診斷數位化
4. 溫室氣體：產品碳足跡、循環經濟

### 相關期刊論文

1. Wang CC, Hung YT, Chou CY, Hsuan SL, Chen ZW, Chang PY, Jan TR, Tung CW. Using random forest to predict antimicrobial minimum inhibitory concentrations of nontyphoidal Salmonella in Taiwan. *Vet Res.* 2023 Feb 6;54(1):11.
2. Li SC, Huang JF, Hung YT, Wu HH, Wang JP, Lin JH, Chen ZW, Hsuan SL. In Silico capsule locus typing for serovar prediction of *Actinobacillus pleuropneumoniae*. *Microb Genom.* 2022 Apr;8(4):000780.
3. Li IC, Yu GY, Huang JF, Chen ZW, Chou CH. Comparison of Reference-Based Assembly and De Novo Assembly for Bacterial Plasmid Reconstruction and AMR Gene Localization in *Salmonella enterica* serovar Schwarzengrund Isolates. *Microorganisms.* 2022 Jan 20;10(2):227.

4. Li IC, Wu HH, **Chen ZW**, Chou CH. Prevalence of IncFIB Plasmids Found among *Salmonella enterica* serovar Schwarzengrund isoates from animal sources in Taiwan using Whole-Genome Sequencing. *Pathogens*. 2021, 10, 1024.
5. Li SC, Cheng YT, Wang CY, Wu JY, **Chen ZW**, Wang JP, Lin JH, Hsuan SL. *Actinobacillus pleuropneumoniae* exotoxin ApxI induces cell death via attenuation of FAK through LFA-1. *Sci Rep*. 2021 Jan 18;11(1):1753.
6. Hsu CW, Li SC, Chang NY, **Chen ZW**, Liao JW, Chen TH, Wang JP, Lin JH, Hsuan SL. Involvement of NF- $\kappa$ B in regulation of *Actinobacillus pleuropneumoniae* exotoxin ApxI-induced proinflammatory cytokine production in porcine alveolar macrophages. *Vet Microbiol*. 2016 Nov 15;195:128-135.
7. Chang NY, **Chen ZW**, Chen TH, Liao JW, Lin CC, Chien MS, Lee WC, Lin JH, Hsuan SL. Elucidating the role of ApxI in hemolysis and cellular damage by using a novel apxIA mutant of *Actinobacillus pleuropneumoniae* serotype 10. *J Vet Sci*. 2014;15(1):81-9.
8. Wang JP, Yeh KS, Hsieh MW, Fang CY, **Chen ZW**, Lin JH. Pathogenic microbiological baseline survey of pork carcasses in Taiwan. *J Food Prot*. 2013 Jun;76(6):1046-50.
9. Wu CM, **Chen ZW**, Chen TH, Liao JW, Lin CC, Chien MS, Lee WC, Hsuan SL. Mitogen-activated protein kinases p38 and JNK mediate *Actinobacillus pleuropneumoniae* exotoxin ApxI-induced apoptosis in porcine alveolar macrophages. *Vet Microbiol*. 2011 Aug 5;151(3-4):372-8.
10. **Chen ZW**, Chien MS, Chang NY, Chen TH, Wu CM, Huang C, Lee WC, Hsuan SL. Mechanisms underlying *Actinobacillus pleuropneumoniae* exotoxin ApxI induced expression of IL-1 $\beta$ , IL-8 and TNF- $\alpha$  in porcine alveolar macrophages. *Vet Res*. 2011 Feb 7;42(1):25.
11. **Chen ZW**, Hsuan SL, Liao JW, Chen TH, Wu CM, Lee WC, Lin CC, Liao CM, Yeh KS, Winton JR, Huang C, Chien MS. Mutations in the *Salmonella enterica* serovar Choleraesuis cAMP-receptor protein gene lead to functional defects in the SPI-1 Type III secretion system. *Vet Res*. 2010 Jan-Feb;41(1):5.
12. Hsuan SL, Liao CM, Huang C, Winton JR, **Chen ZW**, Lee WC, Liao JW, Chen TH, Chiou CJ, Yeh KS, Chien MS. Efficacy of a novel *Pasteurella multocida* vaccine against progressive atrophic rhinitis of swine. *Vaccine*. 2009 May 14;27(22):2923-9.
13. Chien MS, Chan YY, **Chen ZW**, Wu CM, Liao JW, Chen TH, Lee WC, Yeh KS, Hsuan SL. *Actinobacillus pleuropneumoniae* serotype 10 derived ApxI induces apoptosis in porcine alveolar macrophages. *Vet Microbiol*. 2009 Mar 30;135(3-4):327-33.
14. Chu CY, Wang SY, **Chen ZW**, Chien MS, Huang JP, Chen JJ, Hong LS, Shiao AL, Tsai JL, Wu CL. Heterologous protection in pigs induced by a plasmid-cured and crp gene-deleted *Salmonella choleraesuis* live vaccine. *Vaccine*. 2007 Oct 10;25(41):7031-40.
15. Liao CM, Huang C, Hsuan SL, **Chen ZW**, Lee WC, Liu CI, Winton JR, Chien MS. Immunogenicity and efficacy of three recombinant subunit *Pasteurella multocida* toxin vaccines against progressive atrophic rhinitis in pigs. *Vaccine*. 2006 Jan 9;24(1):27-35.