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Associate Professor and Director, Graduate Institute of Veterinary Pathobiology

Research Interests: Swine pathology, immunopathology, molecular diagnostics, animal vaccine efficacy evaluation, animal models

Course Taught:

Undergraduate: Swine Diseases, Veterinary Pathology (and Practice), Clinical Practice

Institute: Special Topics on Swine Diseases, Animal Vaccinology, Laboratory Quality Management and International Standard

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Education Background:

PhD. Department of Veterinary Medicine, National Chung Hsing University, Taiwan

Professional Career:

Associate professor, Graduate Institute of Veterinary Pathobiology, National Chung Hsing University (Since Feb. 2025)

Assistant Professor, Graduate Institute of Veterinary Pathobiology, National Chung Hsing University

Director/ Deputy Director, Animal Technology Laboratories & Attending Veterinarian, Agricultural Technology Research Institute

Laboratory Head, Laboratory of Animal Medicine, ISO/IEC 17025, Lab. No.: 1373

Associate Research Fellow & Chief of Division of Administration, Animal Technology Institute Taiwan (ATIT)

Associate Research Fellow, Division of Animal Medicine, ATIT

Assistant Professor, Department of Medical Technology, Yuanpei University of Medical Technology

Postdoctoral Fellow, Division of Biotechnology and Pharmaceutical Research, National Health Research Institutes

Honor:

Service Outstanding Teacher, National Chung Hsing University (2022)

Selected publications:

1. YF Hung, PC Liu, CH Lin, CN Lin, HY Wu, MT Chiou, HJ Liu, **CY Yang***. Molecular Detection of Emerging Porcine Circovirus in Taiwan. Heliyon, 2024, 10 (15): e35579 (Q1, IF=3.4) (SCI)
2. KTY Teng, CC Chang, SW Hung, MT Chiou, CN Lin, **CY Yang***. Combination of enzyme-linked immunosorbent assay and an indirect fluorescence assay method for a nationwide sero-survey of Toxoplasma gondii infection in pig herds in Taiwan. Prev Vet Med 2024, 230: 106286. (Q1, IF=2.2) (SCI)
3. CH Lin, FC Hsieh, CC Lai, ML Wang, C Hsu, HW Hsu, CC Yang, **CY Yang*** and HY Wu*. Identification

- of the protein coding capability of coronavirus defective viral genomes by mass spectrometry. *Virology Journal* 2023, 20: 290. (Q2, IF=4.8) (SCI)
4. CY Hsu, Y Jang, WR Huang, CY Wang, H W Wen, PC Tsai, **CY Yang**, M Munir, HJ Liu*. Development of Polycistronic Baculovirus Surface Display Vectors to Simultaneously Express Viral Proteins of Porcine Reproductive and Respiratory Syndrome and Analysis of Their Immunogenicity in Swine. *Vaccines* 2023, 11, 1666, (Q1, IF=7.8) (SCI)
 5. CY Hsu, CY Hsieh, **CY Yang**, YK Chang, WL Shih, CM Yeh, NJ Hu, MS Chen, BL Nielsen, HJ Liu*. The sortase A fusion expression and mIFc2 co-expression of bovine lactoferricin and analysis of its antibacterial activity. *Processes* 2022, 10, 2470. (Q2, IF=3.352) (SCI)
 6. HW Lee, **CY Yang**, MC Lee, SP Chen, HW Chang and IC Cheng*. The use of distinctive monoclonal antibodies in FMD VLP- and P1-based blocking ELISA for the seromonitoring of vaccinated swine. *International Journal of Molecular Sciences (IJMS)* 2022, 23, 8542 (Q1, IF=6.208) (SCI)
 7. DH Tan, YS Gong, SC Ou, **CY Yang**, YC Pan, JH Shien, and PC Chang*. Relationship Between the Serotypes and Hemagglutinin Gene Sequences of *Avibacterium paragallinarum*. *AVIAN DISEASES* 65:329–334, 2021. (Q2, IF=1.4) (SCI)
 8. CH Lin, **CY Yang** , ML Wang, SC Ou, CY Lo, TL Tsai, HY Wu*. Effects of coronavirus persistence on the genome structure and subsequent gene expression, pathogenicity and adaption capability. *Cells* 2020, 9, 2322; doi:10.3390/cells9102322 (Q2, IF=4.366) (SCI)
 9. CH Lin, **CY Yang** , SC Ou, ML Wang , CY Lo, TL Tsai, HY Wu*. The impacts of antivirals on the coronavirus genome structure and subsequent pathogenicity, virus fitness and antiviral design. *Biomedicines* 2020, 8, 376; doi:10.3390/biomedicines8100376 (Q1, IF=4.717) (SCI)
 10. WH Lin, K Kaewprom, SY Wang, CF Lin, **CY Yang**, MT Chiou*, CN Lin*. Outbreak of porcine reproductive and respiratory syndrome virus 1 in Taiwan. *Viruses* 2020, 12, 316; doi:10.3390/v12030316 (Q2, IF=3.811) (SCI)
 11. WH Lin, HC Shih, CF Lin, **CY Yang**, CN Lin* and MT Chiou*. Genotypic analyses and virulence characterization of *Glaesserella parasuis* isolates from Taiwan. *PeerJ* 7: e6960, 2019. DOI 10.7717/peerj.6960 (Q2, IF=2.118) (SCI)
 12. WH Lin, HC Shih, SY Wang, CF Lin, **CY Yang**, YF Chang, CN Lin* and MT Chiou*. Emergence of a Virulent Porcine Reproductive and Respiratory Syndrome Virus in Taiwan in 2018. *Transboundary and Emerging Diseases* 2019; 1-4. DOI:10.1111/tbed.13173 (Q1, IF=3.554) (SCI)
 13. WH Lin, HC Shih, CF Lin, **CY Yang**, YF Chang, CN Lin* and MT Chiou*. Molecular serotyping of *Haemophilus parasuis* isolated from diseased pigs and the relationship between serovars and pathological patterns in Taiwan. *PeerJ* 6: e6017, 2018. (Q2, IF=2.118) (SCI)
 14. Hung SW*, Chen CC, Lin JW, Chiu CC, Hung RC, Hung YC, Tsai PT, **Yang CY***. Establishment of cancer-bearing animal models and drug screening system in keeping with R&D of anti-breast cancer drugs. *Journal of the Chinese Society of Animal Science* 47: 147-166. 2018. (in Chinese)
 15. TH Shih, JT Chiang, HY Wu, WJ Tu, S Inouse, CT Tsai, SC Kuo, **CY Yang**, and CY Fei*. Human Exposure to Ferret Badger Rabies in Taiwan. *Int. J. Environ. Res. Public Health* 15, 1347, 2018; doi:10.3390/ijerph15071347 (Q2, IF=2.101) (SCI)
 16. CT Chiu, SN Kuo, SW Hung, and **CY Yang***. Combined Treatment with Hyaluronic Acid and Mesalamine Protects Rats from Inflammatory Bowel Disease Induced by Intracolonic Administration of Trinitrobenzene Sulfonic Acid. *Molecules* 22 (6), 904, 2017. (Q2, IF=2.861)