



Yang, Cheng-Yao

Assistant Professor, Graduate Institute of Veterinary Pathobiology

Professional Specialty: Swine Diseases, Immunopathology, Molecular Diagnosis, Efficacy evaluation of Veterinary Vaccine, Animal Models

Courses Taught:

Undergraduate: Diseases of Swine, Veterinary Pathology, Clinical Conference

Graduate: Special topics on Swine Disease, Applied Molecular Genetics

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Education Background:

D.V.M. Ph.D., Department of Veterinary Medicine, National Chung Hsing University (NCHU)

Current Position

Assistant Professor, Graduate Institute of Veterinary Pathobiology, NCHU

Executive Director, Taiwan Swine Veterinarians Association

Director, Taiwan Animal and Plant Quarantine and Inspection Development Association

Supervisor, Chinese Society of Veterinary Science

Committee of Animal and Products Risk Assessment, Animal and Plant Health Inspection Agency (APHIA), Ministry of Agriculture (MOA)

Senior Assessor, Taiwan Accreditation Foundation (TAF)

Professional Career:

Director, Animal Technology Laboratories and adjunct Attending Veterinarian, Agricultural Technology Research Institute (ATRI)

Director, Animal Technology Laboratories, ATRI

Deputy Director, Animal Technology Laboratories, ATRI

Laboratory Head, Laboratory of Animal Medicine (1373) (Accreditation Criteria: ISO/IEC 17025: 2005)

Associate Research Fellow, and adjunct Chief, Division of Administration, Animal Technology Institute Taiwan

Associate Research Fellow, Animal Technology Institute Taiwan

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

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

D.V.M Hsin-Cheng Animal Hospital

Honor:

Excellent Service Award, 111 Academic Year, NCHU

Selected Publications:

1. 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)
2. 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)
3. 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)
4. 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)
5. SL Lee, WH Hsu, CM Tu, WH Wang, **CY Yang***, HK Lee*, TY Chin*. The effects of freshwater clam (*Corbicula fluminea*) extract on activated hepatic stellate cells. *Evidence-Based Complementary and Alternative Medicine* 2021, 6065168 <https://doi.org/10.1155/2021/6065168> (Q2, IF=1.813) (SCI)
6. 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)
7. 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)
8. 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)
9. 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)
10. 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)
11. 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)
12. 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)
13. Hung RC, Chen CC, Lin JW, Chiu CC, Huang PM, Hung YC, Tsai PT, **Yang CY***, Hung SW*. Establishment of a mouse model with membranous glomerulonephritis induced by cationic bovine serum albumin. *Journal of the Chinese Society of Animal Science* 47: 95-108. 2018. (in Chinese)
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)
17. LC Hung, **CY Yang**, IC Cheng*. Peptides mimicking viral proteins of porcine circovirus type 2 were profiled by the spectrum of mouse anti-PCV2 antibodies. *BMC Immunology* 18: 25, 2017. DOI 10.1186/s12865-017-0211-2 (Q3, IF=2.481) (SCI)

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