



## **Chang, Chih-Cheng**

**Professor**

### **Professional specialty:**

Diseases of Swine, Veterinary Virology, Veterinary Pathology, Evolutionary virology, Animal Disease Diagnosis

### **Lectures:**

Diseases of Swine, Advanced Molecular Virology, Advanced Veterinary Digestive and Respiratory Diseases

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### **Educational Background**

Ph.D. in Veterinary Medicine, Iowa State University, USA, 08/1996-07/2001.

Master of Veterinary Medical Science, National Taiwan University, Taiwan, 09/1990-06/1992.

Associate of Veterinary Medicine, National Chiayi Institute of Agriculture, Taiwan, 08/1978-06/1984

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

Professor, Department of Veterinary Medicine, NCYU, 08/2020- now

### **Honors**

Excellent Mentor Award, NCYU, 2019

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

Production Medicine of Swine, Evolution of Animal Virus, Animal Disease Pathogenic Mechanism, Field Epidemic Investigation of Animal Disease

### **Selected Publications**

1. Pang VF, Chiang CF, **Chang CC**. 2020. The in vitro effects of aflatoxin B1 on physiological functions of swine alveolar macrophages. *Veterinary Medicine and Science* 6(4): 919-925. (SCI) (IF: 0.943, 74/141, 2018)
2. Chiang CF, Yen CH, **Chang CC**. 2020. Evaluation on the Efficacy of a Porcine Reproductive and Respiratory Syndrome Virus Subunit Vaccine in Field Nursery

Figs. Journal of International Cooperation 15(1) (2020-04-24 accepted).

3. **Chang CC**. 2019. Viral Disease: Bunyaviruses. DISEASES OF SWINE 11th. Publisher: Wiley Blackwell/ Publication date (print): 2019-05/ ISBN (print): 978-1-119-35085-9/ ISBN (ebook): 978-1-119-35090-3 (2019-03).
4. Yu CH, Cheng TY, Chiang CF, **Chang CC**. 2019. Effects of a live porcine reproductive and respiratory syndrome virus (PRRSV) vaccine on the growth performance, antibody response, and infection of common pathogens in field pigs. Journal of International Cooperation 14(2):83-98.
5. Yu CH, Kaewprom K, **Chang CC**, Chiou MT, Lin CN. 2019. Genetic evolution of porcine reproductive and respiratory syndrome virus based on ORF5 on 7 Taiwanese pig farms. Thai Journal of Veterinary Medicine 49(2):167-174. (SCI) (IF: 0.318, 116/141, 2018)
6. Yu CH, Chen CY, **Chang CC**. 2019. The immediate effects of weaning stress on the hypothalamuspituitary-adrenal alteration of newly weaned piglets. Journal of Animal Physiology and Animal Nutrition 103:1218-1223. (SCI) (IF: 1.703, 34/141, 2018)
7. Hsu YH, Chou SJ, **Chang CC**, Pan MJ, Yang WC, Lin CF, Chan KW. 2017. Development and validation of a new loop-mediated isothermal amplification for detection of pathogenic Leptospira species in clinical materials. Journal of Microbiological Methods 141:55-59. (SCI) (IF: 1.803, 104/133, 2018)
8. Xue YJ, Chang CC, Lai JM, Wang JH. 2017. Determining the tranquilization dose and residue of tricaine methanesulfonate (MS-222) in sea bass Lates calcarifer tissue. Fisheries Science 83(4):625-633. (SCI) (IF: 0.929, 37/52, 2018)
9. Lee Y, Lin CM, Jeng CR, Chang HW, **Chang CC**, Pang VF. 2015. The pathogenic role of torque teno susvirus 1 and 2 and their correlations with various viral pathogens and host immunocytes in wasting pigs. Veterinary Microbiology 180:186-195. (SCI) (IF: 2.791, 7/141, 2018)
10. Chiou MT, Yu CH, **Chang CC**, Chung WB, Wu HY, Lin CF, Lin CN. 2014. Molecular characterization of the porcine epidemic diarrhea virus TW4/2014 in Taiwan. Austin Virology and Retrovirology 1(2): 1-4.
11. Chan KW, Ping TY, Chou SJ, Zheng ZJ, Yang WC, Lai JM, Lo DY, **Chang CC**, Wu JT. 2014. Case Report: Treatment of an elderly dog with concurrent heart disease and acute uremia by hemodialysis. Taiwan Veterinary Journal 40(2):95-100.
12. Tsai YC, Jeng CR, **Chang CC**, Hsiao SH, Chang HW, Lin CM, Chia MY, Wan CH,

- Pang VF. 2014. Differences in the expression of innate immune response-modulating genes in blood monocytes between subclinically porcine circovirus type 2 (PCV2)-infected and PCV2-free pigs prior to and after lipopolysaccharide stimulation in vitro. *Taiwan Veterinary Journal* 40(1):37-48.
13. Karuppannan AK, Qiang J, **Chang CC**, Kwang J. 2013. A novel baculovirus vector shows efficient gene delivery of modified porcine reproductive and respiratory syndrome virus antigens and elicits specific immune response. *Vaccine* 31:5471-5478. (SCI) (IF: 3.485, 35/124, 2014)
  14. Chan KW, Ping TY, Chou SJ, Zheng ZJ, Yang WC, Lai JM, Lo DY, **Chang CC**, Wu JT. 2013. Case Report: Treatment of an elderly dog with concurrent heart disease and acute uremia by hemodialys. *Taiwan Veterinary Journal* 39(3):150-157.
  15. Lin CM, Jeng CR, Liu JP, Lin EC, **Chang CC**, Huang YL, Tsai YC, Chia MY, Wan CH, Pang VF. 2013. Immune gene expression profiles in swine inguinal lymph nodes with different viral loads of porcine circovirus type 2. *Veterinary Microbiology* 162:519-529. (SCI) (IF: 2.791, 7/141, 2018)
  16. **Chang CC**. 2012. Viral Disease: Bunyaviruses. *DISEASES OF SWINE* 10th. Publisher: Wiley Blackwell/ Publication date (print): 2012-01/ ISBN (print): 978-0-8138-2267-9/2012.
  17. Chiu SC, Hu SC, Chang CC, Chang CY, Huang CC, Pang VF, Wang FI. 2012. The role of porcine teschovirus in causing diseases in endemically infected pigs. *Veterinary Microbiology* 161:88-95. (SCI) (IF: 2.791, 7/141, 2018)
  18. Huang PC, **Chang CC**, Kuo TY, Yang TS, Lee DN. 2011. Effects of diet supplemented with lingzhi culture on the growth and immune responses of weaned pigs. *J. Chin. Soc. Anim. Sci.* 40(4):221-231.
  19. Lo DY, Chen HY, Tee KY, Tseng YS, Wang KT, Tsai HP, Chiou HY, Hsiao SH, **Chang CC**, Wu JT. 2011. Case Report: Pyogranulomatous gastritis caused by *pythium insidiosum* in a dog. *Taiwan Veterinary Journal* 37(2):129-135.
  20. Lin CM, Jeng CR, Hsiao SH, Liu JP, **Chang CC**, Chiou MT, Tsai YC, Chia MY, Pang VF. 2011. Immunopathological characterization of porcine circovirus type 2 infection-associated follicular changes in inguinal lymph nodes using high-throughput tissue microarray. *Veterinary Microbiology* 149(1-2):72-84. (SCI) (IF:3.327, 2/145,2011)
  21. **Chang CC**, Huang AJ, Shyu BR, Ma WJ, Pang VF, Wang Jh. 2011. Epidemiological survey of torque teno virus (TTV) in Taiwan pig farms from 2008

to 2009. Taiwan Veterinary Journal 37(1):45-52.

[And more](#)