

CURRICULUM VITAE

Full name: Chia-Yi Chang

Date of birth: 6 July, 1977

Nationality: Taiwan

Office Address: 376 Chung-Cheng Road, Tansui, New Taipei City, 25158 Taiwan.

TEL : 886-2-26212111 Ext 343

E-mail: cychang@mail.nvri.gov.tw

Current employment

Animal Health Research Institute, 2001-present

Current research

1. Pathogenesis of CSF
2. Pathogenic determinants of CSFV
3. Molecular epidemiology of CSFV in Taiwan
4. Diagnosis of swine viral diseases

Education

2008-2011	PhD., Graduate Institute of Veterinary Medicine, National Taiwan University
2003-2005	Master, Graduate Institute of Veterinary Medicine, Nation Taiwan University
1995-2000	DVM, Department of Veterinary Medicine, National Taiwan University

Publication

1. Huang, Y.L., Deng, M.C., Tsai, K.J., Liu, H.M., Huang, C.C., Wang, F.I., **Chang, C.Y.**, 2017. Competitive replication kinetics and pathogenicity in pigs co-infected with historical and newly invading classical swine fever viruses. Virus Res. 228, 39-45.
2. Postel, A., Meyer, D., Cagatay, G.N., Feliziani, F., De Mia, G.M., Fischer, N., Grundhoff, A., Milićević, V., Deng, M.C., **Chang, C.Y.**, Qiu, H.J., Sun, Y., Wendt, M., Becher, P., 2017. High Abundance and Genetic Variability of Atypical Porcine Pestivirus in Pigs from Europe and Asia. Emerg. Infect. Dis. 23, 2104-2107.

3. Meyer, D., Fritsche, S., Luo, Y., Engemann, C., Blome, S., Beyerbach, M., **Chang, C.Y.**, Qiu, H.J., Becher, P., Postel, A., 2017. The double-antigen ELISA concept for early detection of Erns-specific classical swine fever virus antibodies and application as an accompanying test for differentiation of infected from marker vaccinated animals. *Transbound. Emerg. Dis.* 64, 2013-2022.
4. Chiou, H.Y., Huang, Y.L., Deng, M.C., **Chang, C.Y.**, Jeng, C.R., Tsai, P.S., Yang, C., Pang, V.F., Chang, H.W., 2015. Phylogenetic Analysis of the Spike (S) Gene of the New Variants of Porcine Epidemic Diarrhoea Virus in Taiwan. *Transbound. Emerg. Dis.* 64, 157-166.
5. Deng, M.C., **Chang, C.Y.**, Huang, T.S., Tsai, H.J., Chang, C., Wang, F.I., Huang, Y.L., 2015. Molecular epidemiology of porcine reproductive and respiratory syndrome viruses isolated from 1991 to 2013 in Taiwan. *Arch. Virol.* 160, 2709-2718.
6. Sung, M.H., Deng, M.C., Chung, Y.H., Huang, Y.L., **Chang, C.Y.**, Lan, Y.C., Chou, H.L., Chao, D.Y., 2015. Evolutionary characterization of the emerging porcine epidemic diarrhea virus worldwide and 2014 epidemic in Taiwan. *Infect. Genet. Evol.* 36, 108-115.
7. Wang, F.I., Deng, M.C., Huang, Y.L., **Chang, C.Y.**, 2015. Structures and functions of pestivirus glycoproteins: not simply surface matters (Review). *Viruses* 7, 3506-3529.
8. **Chang, C.Y.**, Deng, M.C., Wang, F.I., Tsai, H.J., Yang, C.H., Chang, C., Huang, Y.L., 2014. The application and development of duplicate reverse transcription real-time PCR for the surveillance of porcine reproductive and respiratory syndrome virus and porcine circovirus type 2 in Taiwan. *J Virol. Method* 201, 13-19.
9. Chiu, S.C., Yang, C.L., Chen, Y.M., Hua, S.C., Chiu, K.C., Lin, Y.C., **Chang, C.Y.**, Wang, F.I., 2014. Multiple models of porcine teschovirus pathogenesis in endemically infected pigs. *Vet. Microbiol.* 168, 69-77.
10. Deng, M.C., **Chang, C.Y.**, Huang, T.S., Kuo, S.T., Tsai, H.J., Chang, C., Huang, Y.L., 2014. The outbreak of porcine epidemic diarrhea in Taiwan. *Taiwan Vet. J.* 40, 115-121.
11. Huang, Y.L., Deng, M.C., Wang, F.I., Huang, C.C., **Chang, C.Y.**, 2014. The challenges of classical swine fever control: modified live and E2 subunit vaccines (Review). *Virus Res* 179, 1-11.
12. Huang, Y.L., Pang, V.F., Deng, M.C., **Chang, C.Y.**, Jeng, C.R., 2014. Porcine circovirus type 2 decreases the infection and replication of attenuated classical swine fever virus in porcine alveolar macrophages. *Res. Vet. Sci.* 96, 187-195.

13. Lin, Y.L., **Chang, C.Y.**, Pan, C.H., Deng, M.C., Tasi, H.J., Lee, F., 2014. First Finding of Southeast Asia Topotype of Foot-and-Mouth Disease Virus in Kinmen, Taiwan in the 2012 Outbreak. *J. Vet. Med. Sci.* 76, 1479-1485.
14. Tung, Y.C., **Chang, C.Y.**, Wang, F.I., 2014. The classical swine fever virus LPC vaccine and E2 glycoproteins protect from challenge with genotypically homologous viruses. *Taiwan Vet. J.* 40, 163-172.
15. **Chang, C.Y.**, Huang, C.C., Deng, M.C., Huang, Y.L., Lin, Y.J., Liu, H.M., Lin, Y.L., Wang, F.I., 2012. Identification of conformational epitopes and antigen-specific residues at the D/A domains and the extramembrane C-terminal region of E2 glycoprotein of classical swine fever virus. *Virus Res.* 168, 56-63.
16. **Chang, C.Y.**, Huang, C.C., Deng, M.C., Huang, Y.L., Lin, Y.J., Liu, H.M., Lin, Y.L., Wang, F.I., 2012. Antigenic mimicking with cysteine-based cyclized peptides reveals a previously unknown antigenic determinant on E2 glycoprotein of classical swine fever virus. *Virus Res.* 163, 190-196.
17. Chiu, S.C., Hu, S.C., Chang, C.C., **Chang, C.Y.**, Huang, C.C., Pang, V.F., Wang, F.I., 2012. The role of porcine teschovirus in causing diseases in endemically infected pigs. *Vet. Microbiol.* 161, 88-95.
18. Huang, Y.L., Pang, V.F., Deng, M.C., **Chang, C.Y.**, Shih, C.N., Wan, C.H., Jeng, C.R., 2012. Reduction of classical swine fever virus-specific cell proliferative response of porcine peripheral blood mononuclear cells by porcine circovirus type 2. *Taiwan Vet. J.* 38, 164-176.
19. Huang, Y.L., Pang, V.F., Lin, C.M., Tsai, Y.C., Chia, M.Y., Deng, M.C., **Chang, C.Y.**, Jeng, C.R., 2011. Porcine circovirus type 2 (PCV2) infection decreases the efficacy of an attenuated classical swine fever virus (CSFV) vaccine. *Vet. Res.* 42, 115.
20. **Chang, C.Y.**, Huang, C.C., Lin, Y.J., Deng, M.C., Tsai, C.H., Chang, W.M., Wang, F.I., 2010. Identification of antigen-specific residues on E2 glycoprotein of classical swine fever virus. *Virus Res.* 152, 65-72.
21. **Chang, C.Y.**, Huang, C.C., Lin, Y.J., Deng, M.C., Chen, H.C., Tsai, C.H., Chang, W.M., Wang, F.I., 2010. Antigenic domains analysis of classical swine fever virus E2 glycoprotein by mutagenesis and conformation-dependent monoclonal antibodies. *Virus Res.* 149, 183-189.
22. Lin, Y.J., Deng, M.C., Wu, S.H., Chen, Y.L., Cheng, H.C., **Chang, C.Y.**, Lee, M.S., Chien, M.S., Huang, C.C., 2008. Baculovirus-derived hemagglutinin vaccine protects chickens from lethal homologous virus H5N1 challenge. *J. Vet. Med. Sci.* 70, 1147-1152.

23. Lee, M.S., Deng, M.C., Lin, Y.J., **Chang, C.Y.**, Shieh, H.K., Shiau, J.Z., Huang, C.C., 2007. Characterization of an H5N1 avian influenza virus from Taiwan. *Vet. Microbiol.* 124, 193-201.
24. **Chang, C.Y.**, Huang, C.C., Huang, T.S., Deng, M.C., Jong, M.H., Wang, F.I., 2006. Isolation and characterization of a Sagiyama virus from farmed pigs. *J. Vet. Diagn. Invest.* 18, 156-161.
25. Deng, M.C., Huang, C.C., Huang, T.S., **Chang, C.Y.**, Lin, Y.J., Chien, M.S., Jong, M.H., 2005. Phylogenetic analysis of classical swine fever virus isolated from Taiwan. *Vet. Microbiol.* 106, 187-193.

Book

1. Wang, F.I., **Chang, C.Y.**, Huang, C.C., 2019. Togaviruses. *In*: Zimmerman J., Karriker L., Ramirez A., Schwartz K., Stevenson G., and Zhang J. (editors). *Diseases of swine* (11th edition). John Wiley & Sons, Hoboken, NJ, pp. 740-742.
2. Wang, F.I., **Chang, C.Y.**, Huang, C.C., 2012. Togaviruses. *In*: Zimmerman J., Karriker L., Ramirez A., Schwartz K., and Stevenson G. (editors). *Diseases of swine* (10th edition). John Wiley & Sons, Ames, Iowa, pp. 644-646.

Oral Presentation

1. **Chang, C.Y.**, 2015. The epidemiology and pathogenesis of novel porcine epidemic diarrhea virus in Taiwan. The 7th International Symposium on Emerging and Re-emerging Pig Disease.
2. **Chang, C.Y.**, Huang, C.C., Deng, M.C., Huang, Y.L., Wang, F.I., 2012. Identification of conformational and antigen-specific epitopes on E2 glycoprotein of classical swine fever virus. 22nd international pig veterinary society (IPVS) congress.
3. **Chang, C.Y.**, Lin, Y.J., Tsai, H.J., 2012. Situation and prevention of FMD in Taiwan. Symposium on prevention and control of foot and mouth disease.
4. **Chang, C.Y.**, Huang, C.C., Lin, Y.J., Deng, M.C., Wang, F.I., 2010. Analysis of antigenicity among various subgroups of classical swine fever virus. 21st international pig veterinary society (IPVS) congress.

Poster

1. **Chang, C.Y.**, Deng, M.C., Huang, Y.L., Wang, F.I., 2014. Antigen variation of E2 glycoprotein among different genotypes CSFV influence the efficacy of the CSFV vaccines. Joint U.S. BVDV/ESVV Pestivirus Symposium.
2. **Chang, C.Y.**, Deng, M.C., Huang, Y.L., Lin, Y.L., Huang, C.C., Wang, F.I., 2011. Protection of pigs by immunization with human adenovirus type 5 recombinant virus expressing the E2 glycoprotein of classical swine fever virus. XV International Congress of Virology (IUMS).