

## ZENG-WENG CHEN

### PEER REVIEWED PUBLICATIONS:

1. Lin, G. J., M. C. Deng, **Z. W. Chen**, T. Y. Liu, C. W. Wu, C. Y. Cheng, M. S. Chien, C. Huang. 2012. Yeast expressed classical swine fever E2 subunit vaccine candidate provides complete protection against lethal challenge infection and prevents horizontal virus. 30:2336-2341. *Vaccine*. (2012 IF= 3.327)
2. Shen, M. Y., Y. P. Lin, B. C. Yang, Y. S. Jang, C. K. Chiang, C. Mettling, **Z. W. Chen**, J. R. Sheu, C. L. Chang, Y. L. Lin and W. C. Yang. Catenarin prevents type 1 diabetes in non-obese diabetic mice via inhibition of leukocyte migration involving the MEK6/p38 and MEK7/JNK pathways. 2012. *Evidence-Based Complementary and Alternative Medicine*. 2012: 982396. (2012 IF=4.774)
3. Shen M. Y., Y. J. Liu, M. J. Don, H. Y. Liu, **Z. W. Chen**, C. Mettling, P. Corbeau, C. K. Chiang, Y. S. Jang, T. H. Li, P. Young, C. L. Chang, Y. L. Lin, W. C. Yang. 2011. Combined phytochemistry and chemotaxis assays for identification and mechanistic analysis of anti-inflammatory phytochemicals in *Fallopia japonica*. *PLoS ONE* 6(11):e27480. (2012 IF=4.092)
4. Wu, C. M., **Z. W. Chen**, T. H. Chen, J. W. Liao, C. C. Lin, M. S. Chien, W. C. Lee, and S. L. Hsuan. 2011. Mitogen-activated protein kinases p38 and JNK mediate *Actinobacillus pleuropneumoniae* exotoxin ApxI-induced apoptosis in porcine alveolar macrophages. *Veterinary Microbiology* 151:372–378. (2012 IF= 3.327)
5. **Chen, Z. W.**, M. S. Chien, N. Y. Chang, T. H. Chen, C. M. Wu, C. Huang, W. C. Lee, and S. L. Hsuan. 2011. Mechanisms underlying *Actinobacillus pleuropneumoniae* exotoxin ApxI induced expression of IL-1 $\beta$ , IL-8 and TNF- $\alpha$  in porcine alveolar macrophages. *Veterinary Research* 42:25. (2012 IF= 4.060)
6. Wu, C. M., S. L. Hsuan, T. R. Jinn, **Z. W. Chen**, C. Huang, J. W. Liao, T. H. Chen, C. M. Liao, W. C. Lee, T. Y. Wu, and M. S. Chien. 2010. Expression and immunological studies of classical swine fever virus glycoprotein E2 in the bi-cistronic baculovirus/larvae expression system. *Bioscience, Biotechnology and Biochemistry* 74:1343-9. (2012 IF= 1.276)
7. **Chen, Z. W.**, S. L. Hsuan, J. W. Liao, T. H. Chen, C. M. Wu, W. C. Lee, C. C. Lin, C. M. Liao, K. S. Yeh, J. R. Winton, C. Huang, and M. S. Chien. 2010. Mutations in the *Salmonella enterica* serovar Choleraesuis cAMP-receptor protein gene lead to functional defects in the SPI-1 Type III secretion system. *Veterinary Research* 41:5. (2012 IF= 4.060)
8. Hsuan, S. L., C. M. Liao, C. Huang, J. R. Winton, **Z. W. Chen**, W. C. Lee, J. W. Liao, T. H. Chen, C. J. Chiou, K. S. Yeh, and M. S. Chien. 2009. Efficacy of a novel *Pasteurella multocida* vaccine against progressive atrophic rhinitis of swine. *Vaccine* 27:2923-2929. (2012 IF= 3.766)

9. Chien, M. S., Y. Y. Chan, **Z. W. Chen**, C. M. Wu, J. W. Liao, T. H. Chen, W. C. Lee, K. S. Yeh, and S. L. Hsuan. 2009. *Actinobacillus pleuropneumoniae* serotype 10 derived ApxI induces apoptosis in porcine alveolar macrophages. *Veterinary Microbiology* 135:327-333. (2012 IF= 3.327)
10. Lin, G. J., T. Y. Liu, Y. Y. Tseng, **Z. W. Chen**, C. C. You, S. L. Hsuan, M. S. Chien, and C. Huang. 2009. Yeast-expressed classical swine fever virus glycoprotein E2 induces a protective immune response. *Veterinary Microbiology* 139:369-374. (2012 IF= 3.327)
11. J. P. Huang, J. J. Chen, L. S. Hong, A. L. Shiau, J. L. Tsai, and C. L. Wu. 2007. Heterologous protection in pigs induced by a plasmid-cured and *crp* gene-deleted *Salmonella choleraesuis* live vaccine. *Vaccine* 25:7031-7040. (2012 IF= 3.766)
12. Liao, C. M., C. Huang, S. L. Hsuan, **Z. W. Chen**, W. C. Lee, C. I. Liu, J. R. Winton, and M. S. Chien. 2006. Immunogenicity and efficacy of three recombinant subunit *Pasteurella multocida* toxin vaccines against progressive atrophic rhinitis in pigs. *Vaccine* 24:27-35. (2012 IF= 3.766)

#### **ABSTRACTS AND POSTER PRESENTATIONS:**

1. Liao, C. M., C. M. Wu, **Z. W. Chen**, J. Y. Chen, P. Y. Wu, C. C. Lin, J. W. Liao, S. L. Hsuan, J. Yu, M. S. Chien. 2012. Efficacy study of classical swine fever recombinant E2 subunit vaccine using an experimental cohabitation challenge model. 22<sup>nd</sup> International Pig Veterinary Society Congress. Jeju, South Korea. Abst. No. VP-112 [Poster]
2. Chang, N. Y., **Z. W. Chen**, T. H. Chen, J. W. Liao, C. C. Lin, M. S. Chien, W. C. Lee, S. L. Hsuan. 2012. Effect of LPS on ApxI-induced apoptosis in porcine alveolar macrophages. 22<sup>nd</sup> International Pig Veterinary Society Congress. Jeju, South Korea. Abst. No. BP-263 [Poster]
3. **Chen, Z. W.**, C.Y. Yen, S. H. Chen, and W. C. Yang. 2011. Role of myeloid-derived suppressor cells in type 1 diabetes. The 5<sup>th</sup> Autoimmune Congress Asia 2011. Singapore. [Poster]
4. **Chen, Z. W.**, M. S. Chien, N. Y. Chang, C. M. Wu, C. C. Lin, T. H. Chen, C. M. Liao, J. Yu and S. L. Hsuan. 2010. *Actinobacillus pleuropneumoniae* exotoxin ApxI induces expression of proinflammatory cytokines in porcine alveolar macrophages. 21<sup>th</sup> International Pig Veterinary Society Congress. Vancouver, Canada. Abst. No. 7393. [Poster]
5. Wu C. M., M. S. Chien, N. Y. Chang, **Z. W. Chen**, C. M. Liao, J. Yu, J. W. Liao, W. C. Lee, and S. L. Hsuan. 2010. Involvement of mitogen-activated protein kinases p38 and JNK in *Actinobacillus pleuropneumoniae* exotoxin ApxI-induced apoptosis in porcine alveolar macrophages. 21<sup>th</sup> International Pig Veterinary Society Congress. Vancouver, Canada. Abst. No. 7814. [Poster]

6. **Chen, Z. W.**, S. L. Hsuan, C. M. Liao, C. Huang, and M. S. Chien. 2007. Differences in *Salmonella*-induced PKB activation of porcine epithelial cells may correlate to diarrheagenic symptoms of swine salmonellosis. The 3<sup>rd</sup> *Salmonella* Conference, Taichung, Taiwan. L08. [Oral presentation]
7. Huang, B. S., **Z. W. Chen**, S. L. Hsuan, W. C. Lee, M. S. Chien. 2006. Development and evaluation of *Mycoplasmal pneumonia* of swine and swine progressive atrophic rhinitis bivalent vaccine. 19<sup>th</sup> International Pig Veterinary Society Congress. Copenhagen, Denmark. Abst. No. 170. [Poster]
8. **Chen, Z. W.**, S. L. Hsuan, C. M. Liao, C. Huang, W. C. Lee, M. S. Chien. 2006. Effect of classical swine fever virus on *Salmonella* invasion. Proceedings of the 19<sup>th</sup> IPVS Congress, Copenhagen, Denmark. O.42-02. [Oral presentation]
9. Hsuan, S. L., C. M. Liao, **Z. W. Chen**, C. Huang, B. S. Huang, M. S. Chien. 2006. Efficacy of the recombinant subunit *Pasteurella multocida* toxin vaccine against Progressive Atrophic Rhinitis in fields. 19<sup>th</sup> International Pig Veterinary Society Congress. Copenhagen, Denmark. Abst. No. 378. [Poster]
10. Liao, C., Y. Lin, **Z. Chen**, W. Lee, C. Lin, M. Chien\* Impairment of swine phagocytes against *Salmonella enterica* serovars Choleraesuis and Typhimurium caused by CSFV infection. ASM conferences, *Salmonella* pathogenesis, epidemiology, and vaccine development, September 20-24 2003, Alghero, Italy. [Poster]

#### **CHAIRPERSON EXPERIENCE**

*Haemophilus parasuis*. Bacteriology and Bacterial diseases. Concurrent Oral Session B3. 2012. 22<sup>nd</sup> International Pig Veterinary Society Congress. Jeju, South Korea.

#### **PATENTS**

Maw-Sheng Chien and **Zeng-Weng Chen**. Construction of a *Salmonella* Choleraesuis mutant for live attenuated vaccine candidate. (2008, Taiwan).