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主要教授課程：

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### 簡要學經歷及重要榮譽：

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美國普度大學比較病理生物系及州立動物疾病診斷實驗室博士後研究

美國普度大學比較病理生物系研究助理

美國印地安那州立動物疾病診斷實驗室助理

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### 研究興趣及成果簡述：

- DNA 疫苗之研發
- IBDV 類病毒顆粒之應用
- 分子佐劑之研發與應用
- 動物免疫反應檢測方法之研發
- 病毒致病機轉之探討

### 代表著作：

#### 期刊論文

1. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. DNA-mediated vaccination conferring protection against infectious bursal disease in broiler chickens in the presence of maternal antibody. *Vaccine* 28: 3936-3943, 2010. (SCI)
2. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. Priming with DNA vaccine and boosting with killed

vaccine conferring protection of chickens against infectious bursal disease. *Vaccine* 25: 5417-5427, 2007. (SCI)

3. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. The effect of co-administration of DNA carrying chicken interferon-g gene on protection of chickens against infectious bursal disease by DNA-mediated vaccination. *Vaccine* 24: 6955-6965, 2006. (SCI)
4. Harris, N.B., Zinnial, D.K., **Hsieh, M.K.**, Cirillo, J.D. and Barletta, R.G. Cell sorting of Formalin-treated pathogenic Mycobacterium paratuberculosis expressing GFP. *Biotechniques* 32: 522-27, 2002. (SCI)
5. Loa, C.C., **Hsieh, M.K.**, Wu, C.C. and Lin, T.L. Molecular identification and characterization of turkey IFN-g. *Comparative Biochemistry and Physiology Part B* 130: 579-84, 2001. (SCI)

#### 研討會論文

1. **Hsieh, M.K.**, C.C. You, and C.J. Huang. The Effects of the Calreticulin on the Immune Response Induced by DNA Vaccine Containing the Classical Swine Fever Virus E2 Gene in Mouse Model. The 13<sup>th</sup> Annual Meeting of American Society of Gene & Cell Therapy. Washington DC, USA. May 19-22, 2010.
2. **Hsieh, M.K.**, T.W. Feng, T.L. Lin, and C.C. Wu. A combination of chicken calreticulin gene and infectious bursal disease virus large segment gene in DNA vaccination against infectious bursal disease. The 20th Annual Phi Zeta Research Day. Purdue University, West Lafayette, Indiana; April 2, 2007
3. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. A prime-boost approach to enhance DNA vaccination-mediated protection against infectious bursal disease. The 58th North Central Avian Disease Conference and Symposium on Lessons Learned from AI preparation. St. Paul, Minnesota; March 11-13, 2007 (Oral)
4. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. DNA vaccination conferring protection of broiler chickens against infectious bursal disease in the presence of maternal antibody. The 18th Annual Phi Zeta Research Day. Purdue University, West Lafayette, Indiana; April 5, 2005
5. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. The effect of chicken Interleukin-2 on protection of chickens against infectious bursal disease by DNA vaccination. The 55th Annual of North Central Avian Disease Conference and Symposium. Ames, Iowa; October 3-5, 2004 (Oral)
6. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. Protection of chickens against infectious bursal disease by priming with DNA and boosting with killed vaccine. The 17th Annual Phi Zeta Research Day. Purdue University, West Lafayette, Indiana; April 5, 2004
7. **Hsieh, M.K.**, T.L. Lin, and C.C. Wu. The effect of chicken IFN-g on protection of chickens against infectious bursal disease by DNA vaccination. The 15th Annual Phi Zeta Research Day. Purdue University, West Lafayette, Indiana; April 1, 2002