

**BIOGRAPHICAL SKETCH**

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| NAME<br>JIANWU PEI, PH.D. | POSITION TITLE<br>Assistant Research Scientist |
|---------------------------|--|

| Institution And Location                        | Degree | Year (s) | Field Of Study              |
|---|--------|----------|-----------------------------|
| Hebei Agricultural University, Baoding, China   | DVM    | 1986     | Veterinary Medicine         |
| Beijing Agricultural University, Beijing, China | M.S.   | 1994     | Veterinary Microbiology     |
| China Agricultural University, Beijing, China   | Ph.D.  | 1996     | Microbiology and Immunology |

**Professional Positions**

- Sep.2003 – present **Assistant Research Scientist**, Department of Veterinary Pathobiology, Texas A&M University, College Station, TX.
- Apr.1998–Aug.2003 **Postdoctoral Research Associate**, Department of Veterinary Pathobiology, Texas A&M University, College Station, TX.
- Jul.1996–Mar.1998 **Assistant Research Professor and Division Head** of Swine Viral Diseases, Department of Virology, National Institute of Quality Control for Veterinary Bioproducts and Pharmaceuticals, Beijing, China.
- Sep.1991–Jul.1996 **Research and Teaching Assistant**, College of Veterinary Medicine, Beijing Agricultural University, Beijing, China.
- Jul.1986–Aug.1991 **Lecturer**, Department of Veterinary Medicine, Zhangjiakou Agricultural College, China.

**Awards and Honors**

- 2000 **Travel Award**, American Society for Virology.
- 1999 **Travel Award**, American Society for Virology.
- 1996 **Excellent Research Award**, Chinese Association of Animal Husbandry and Veterinary Medicine.
- 1994 **Excellent Avian Disease Research Paper Award**, Chinese Association of Poultry Health.
- 1983 **Outstanding Student**, Hebei Agricultural University.

**Grants Completed**

- 1996-1998. "Characterization of Classical Swine Fever Seed Virus in China" Principal Investigator. Sponsored by Ministry of Agriculture.
- 1990-1991. "Application of Negative Air Ion in Animal Science" Sole Principal Investigator. Sponsored by Hebei Educational Foundation.

**Membership in Professional Society**

- American Society for Virology.
- American Society for Microbiology.

**SELECTED PUBLICATIONS**

- Jianwu Pei**, and Ellen W. Collisson. (2004). Specific antibody secreting cells from chickens can be detected by three days and memory B cells by three weeks post-infection with the avian respiratory coronavirus. *Developmental & Comparative Immunology*. In press.
- Jianwu Pei**, and Thomas A. Ficht. (2004). *Brucella abortus* rough mutants are cytopathic for macrophages in culture. *Infection and Immunity*. 72(1): 440-450.
- Jianwu Pei**, W. Elwood Briles, and Ellen W. Collisson. (2003). Memory T cells protect chicks from acute infectious bronchitis virus infection. *Virology*. 306: 376-384.
- Jianwu Pei**, Margaret J. Sekellick, Philip I. Marcus, In-Soo Choi, and Ellen W. Collisson. (2001). Chicken interferon type-I inhibits infectious virus bronchitis virus replication and associated respiratory illness. *Journal of Interferon and Cytokine Research*. 21: 1071-1077.
- Ellen W. Collisson, **Jianwu Pei**, Jennifer Dzielawa, and Sang Heui Seo. (2000). Cytotoxic T lymphocytes are critical in the control of infectious bronchitis virus in poultry (review). *Development and Comparative Immunology* 24, 187-200.
- Sang Heui Seo, **Jianwu Pei**, W. Elwood Briles, Jennifer Dzielawa, and Ellen W. Collisson. (2000). Adoptive transfer of infectious bronchitis virus primed  $\alpha\beta$  T cells bearing CD8 antigen protect chicks from acute infection.

*Virology* 269, 183-189.

7. **Jianwu Pei**, Margaret J. Sekellick, Philip I. Marcus, In-Soo Choi, and Ellen W. Collisson. (2001). Chicken interferon type-I inhibits infectious virus bronchitis virus (IBV) replication. In *Current Progress on Avian Immunology Research* (Edited by K. A. Schat) pp. 253-257.
8. Ellen W. Collisson, Sang Heui Seo, Jennifer Dzielawa, W. Elwood Briles, and **Jianwu Pei**. (2001). Syngeneic CD8+ T lymphocytes protect chicks from acute infectious bronchitis viral infection and respiratory illness. In *Current Progress on Avian Immunology Research* (Edited by K. A. Schat) pp. 220-225.
9. Qingmin Wu, **Jianwu Pei**, Kaidong Wang, Tianshui Zhang, Hua Zhang, and Zhongzhi Zhang. (2002). Immunopetency assay of several attenuated vaccines against Newcastle disease. *Chinese Journal of Veterinary Medicine* 38(5): 12-13.
10. Qingmin Wu, **Jianwu Pei**, Suying Wang, Jingliang Su, and Zhongzhi Zhang. (2001). Efficacy of attenuated *Mycoplasma gallisepticum* and inactivated *Mycoplasma gallisepticum* oil emulsion vaccine in young chicken. *Chinese Journal of Veterinary Medicine* 37(4): 40-41.
11. **Jianwu Pei**, Fulin Wu, Jinyuan Gao, Guifang Liu, and Shutang Feng. (1998). Susceptibility of Wuzhishan miniature pig to classical swine fever virus. *Chinese Journal of Veterinary Bioproducts and Pharmaceuticals* 32(1): 8-10.
12. **Jianwu Pei**, Yupu Guo, and Shunwu Zhou. (1996). Expression of VP2 cDNA of infectious bursal disease virus in baculovirus expression system. *Proceeding of 10<sup>th</sup> Representative Conference of Chinese Association for Animal Science and Veterinary Medicine*. (edited by Menghou Gan), China Agricultural University Press, pp35-41.
13. **Jianwu Pei**, and Menghou Gan. (1996). Studies on the transfer of antibiotic-resistance of *Staphylococcus aureus* from chicken. *Chinese Journal of Veterinary Medicine* 22(4), 7-9.
14. **Jianwu Pei**, and Quanfu Li. (1993). Effects of negative air ion on bile output of rabbit, *Chinese Journal of Veterinary Medicine* 19(5), 12-13.
15. **Jianwu Pei**, Quanfu Li, Rui Zhang, and Huisheng Ma. (1992). The effects of negative air ion on death rate of embryo and percentage of weak chicks. *China Poultry*. 1: 14-15.
16. **Jianwu Pei**, Yupu Guo, and Shunwu Zhou. (1997). Advances in genetically engineered vaccines of infectious bursal disease (review). *Chinese Journal of Veterinary Bioproducts and Pharmaceuticals* 31(3), 52-55.
17. **Jianwu Pei**, and Menghou Gan. (1997). Advances in research of pathogenic *Escherichia coli* in chickens (review). *Chinese Journal of Veterinary Science* 17(2), 207-208.
18. **Jianwu Pei**. 1994. New concepts on the pathogenesis of broiler ascite syndrome (review). *Animal Science Abroad* 5, 45-46
19. **Jianwu Pei**, and Menghou Gan. (1994). Application and perspective of antisense oligonucleotide on viral disease control (review). *Chinese Journal of Veterinary Medicine* 20(2), 43-45.
20. **Jianwu Pei**, Menghou Gan, and Jue Liu. (1994). Oligonucleotide finger printing of viral genome and its application (review). *Chinese Journal of Veterinary Medicine* 20(4), 42-44.
21. **Jianwu Pei**, and Menghou Gan. (1992). Porcine epidemic abortion and respiratory syndrome (review). *Chinese Journal of Veterinary Medicine* 18(7), 42-43.

#### Manuscripts Submitted and in Preparation

1. **Jianwu Pei**, Thomas A. Ficht. *Brucella abortus* O-antigen is essential for proper uptake and intracellular survival. Submitted to *Infection and Immunity*.
2. **Jianwu Pei**, Joshua E. Turse, and Thomas A. Ficht. *Brucella* rough mutant infection induced cell death in murine macrophage requires bacterial protein synthesis and direct interaction with the macrophage. Manuscript in preparation.
3. Pricella Hong, **Jianwu Pei**, Mellisa M. Kahl, Renee M. Tsohis, and Thomas A. Ficht. *Brucella abortus* mutants defective for maintaining chronic infection confer protection in BALB/c mice. Manuscript in preparation.

#### Book Chapters

1. **Jianwu Pei**, and Menghou Gan. (2003) Avian influenza virus. In *Avian Influenza*, 2th Edition (Menghou Gan ed). China Agriculture Press. pp 15-79.
2. Qian Han, Deming Zhao, Shijun Zhen, Jingliang Su, and **Jianwu Pei** (ed) (1997) The Merck Veterinary Manual (seventh edition) Chinese version. Beijing Agricultural University Press.
3. **Jianwu Pei**, and Menghou Gan. (1995). Avian influenza virus. In *Avian Influenza* (Menghou Gan ed). Beijing Agricultural University Press. pp 12-58.

#### Conference Presentations and Abstracts

1. **Jianwu Pei**, Joshua E. Turse, and Thomas A. Ficht. *Brucella* rough mutant infection induced cell death in murine macrophage requires bacterial protein synthesis and direct interaction with the macrophage. *104th General Meeting of American Society for Microbiology*. New Orleans, Louisiana. May 23-27, 2004.
2. Joshua E. Turse, **Jianwu Pei**, J. Mock, M. Banai, and Thomas A. Ficht. A role for naturally occurring *Brucella* rough mutants. *104th General Meeting of American Society for Microbiology*. New Orleans, Louisiana. May 23-27, 2004.

3. Thomas A. Ficht, Carol Turse, **Jianwu Pei**, Janni Weeks, Duan Liu, Qingmin Wu. Comparison of the mouse model and macrophage culture in the identification of *Brucella melitensis* mutants attenuated for survival. *104th General Meeting of American Society for Microbiology*. New Orleans, Louisiana. May 23-27, 2004.
4. **Jianwu Pei**, Thomas A. Ficht. *Brucella abortus* O-antigen is essential for proper uptake and intracellular survival. *Microbial Pathogenesis and Host Response*. Cold Spring Harbor Laboratory. September 10-14, 2003.
5. **Jianwu Pei**, and Thomas A. Ficht. *Brucella abortus* rough mutants are cytopathic for macrophages in culture. *Brucellosis 2003 International Research Conference*. Pamplona, Spain. September 15-17, 2003.
6. **Jianwu Pei**, Thomas A. Ficht. Rough mutants of *Brucella abortus* S2308 invade murine macrophages via an alternative pathway. *103th General Meeting of American Society for Microbiology*. Washington D.C. May 18-23, 2003.
7. Ellen W. Collisson, D. Elwood Briles, **Jianwu Pei**. Memory T cells protect chicks against infectious bronchitis virus infection. IXth International Symposium on Nidoviruses (Arteriviruses and Coronaviruses). Egmond aan Zee, Netherlands. May 24-29, 2003.
8. Priscilla C. Hong, **Jianwu Pei**, Melissa M. Kahl, Renee M. Tsois, and Thomas A. Ficht. *Brucella abortus* mutants defective for maintaining chronic infection confer protection in mice. *102th General Meeting of American Society for Microbiology*. Salt Lake City, UT. May 19-23, 2002.
9. **Jianwu Pei**, W. Elwood Briles, and Ellen W. Collisson. Memory T cells protect chicks from acute infectious bronchitis virus (IBV) infection. *American Society for Virology 20<sup>th</sup> Annual Meeting*. University of Wisconsin, Madison, Wisconsin. July 20-25, 2001.
10. **Jianwu Pei** and Ellen W. Collisson. Soluble factor(s) produced from chicken lymphocytes suppress IBV replication. *American Society for Virology 19<sup>th</sup> Annual Meeting*. Colorado State University, Fort Collins, Colorado. July 8-12, 2000.
11. **Jianwu Pei**, Margaret J. Sekellick, Philip I. Marcus, and Ellen W. Collisson. Supernatant produced from chicken splenocytes inhibit infectious bronchitis virus (IBV) replication. *Avian Immunology Research Group Meeting*. Cornell University, Ithaca, New York. Oct. 7-10, 2000.
12. Collisson, Ellen W., Sang Heui Seo, Jennifer Dzielawa, W. Elwood Briles, and **Jianwu Pei**. Syngeneic CD8<sup>+</sup> T lymphocytes protect chicks from acute infectious bronchitis viral infection and respiratory illness. *Avian Immunology Research Group Meeting*. Cornell University, Ithaca, New York. Oct. 7-10, 2000.
13. **Jianwu Pei**, Sang Heui Seo, Jennifer Dzielawa, and Ellen W. Collisson. Adoptively transferred immune lymphocytes protect chicks from IBV infection. *American Society for Virology 18<sup>th</sup> Annual Meeting*. University of Massachusetts, Amherst, Massachusetts. July 10-14, 1999.
14. Qingmin Wu, **Jianwu Pei**, and Fuyong Chen. Immunopetency investigation of attenuated vaccines against Newcastle disease. *9<sup>th</sup> General Meeting Abstract of Poultry Health Branch, Chinese Association of Animal Science and Veterinary Medicine*. Nanning, Guangxi, 1998.
15. Jinhua Liu, Yupu Guo, Hanchun Yang, and **Jianwu Pei**. Expression of PrM/E gene of Japanese encephalitis virus in baculovirus. *1997 Annual Meeting of Chinese Association of Veterinary Microbiology*. Beijing, Aug. 13-18, 1997.
16. **Jianwu Pei**, Yupu Guo, and Shunwu Zhou. Expression of VP2 cDNA of infectious bursal disease virus in eukaryotic expression system. *10<sup>th</sup> Representative Conference of Chinese Association for Animal Science and Veterinary Medicine*. Nanjing, China. Oct. 10-13, 1996.
17. **Jianwu Pei**, and Menghou Gan. Studies on the transfer of antibiotic-resistance of *Staphylococcus aureus* from chicken. *1994 General Meeting of Chinese Association of Poultry Health, Zhengzhou, Henan, China*. Oct. 15-20, 1994.