**Dr. Hongzhuan Wu**

**Main Content**

**Dr.Hongzhuan Wu**Assistant Professor of Biology  
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Dr. Hongzhuan Wu received his DVM and MS degrees from Yangzhou University. Dr.Wu received his Ph.D. in Immunology and Pathology at South China Agricultural University /College of Veterinary Medicine; He was then a postdoctoral fellow with Dr.Frederic C Leung in the University of Hong Kong Department of Zoology, and British Houghton trust grant scholar, Canada visiting scholar, and a research scientist with Dr. Joseph J Giambrone at Auburn University. He was a tenured associate professor at China in 1999. He joined Alabama State University in 2004 as a postdoctoral research associate. He serves as an Assistant Professor of Biology from 2007.

**Dr.Wu’s research focuses on:**

* Veterinary infectious diseases and vaccine technology development (Bird flu).
* DNA based diagnostic platform for pathogenic microorganisms.
* Gene transfer *in vitro* and *in vivo* in chicken, transgenic technology.
* Using transgenic plant as a bioreactor to produce pharmaceuticals.
* Using phyto- remediation to deal with heavy metal contamination.

**Some of the recent research publications and patents:**

* H. Wu, N. K. Singh, K. S. Gunn and J. J. Giambrone. 2009. Research towards development of an edible vaccine for avian reovirus. Avian Dis(submitted).
* H. Wu, K Williams, S.R.Singh K.S.Gunn N. K. Singh, T. Dormitorio and J. J. Giambrone. 2009. Structural Integrity of a Yeast-Derived Hemagglutinin Protein of an Avian Influenza Virus (H10N7) Using Atomic Force Microscopy. Biotechnology Letters (submitted).
* H.Wu, V.A. Dennis, S.R. Pillai and S. R.Singh. 2009. RSV Fusion (F) protein DNA vaccineprovides partial protection against viral infection. Virus Research (submitted).
* H.Wu, T. V. Dormitorio, J. J.Giambrone, N. K. Singh. 2009. Development of a recombinant avian influenza vaccine in yeast. Auburn University Technology Disclosure#08-006.
* Giambrone JJ., Dormitorio T., Wu H., Singh NK. 2008. Development of a Recombinant Avian Influenza Vaccine in Yeast. Feedinfo News Service Scientific Reviews.
* Y.Sang, J.M. Barbosa, H.Wu, R.D. Locy, N.K.Singh.2007. Identification of a pyridoxine (pyridoxamine) 5’-phosphate oxidase from Arabidopsis thaliana. FEBS Letters 587: 344-348.
* H. Wu, Williams Y, Gunn KS, Singh NK, Locy RD, Giambrone JJ. 2005. Yeast-derived sigma C protein-induced immunity against avian reovirus. Avian Dis. 49(2):281-4.
* H. Wu, N. K. Singh, J.J. Giambrone, R.D. Locy, K.S. Gunn, Y. Williams. 2004. Edible vaccine against avian reovirus U.S. Provional Patent#60/688,678.