

## CURRICULUM VITAE

Date Updated: 04-11-09

**Pingsheng Wu, Ph.D., M.S.**

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### DOCTORAL DISSERTATION:

**Title:** Chromosome Doubling of Interspecific Hybrids in the *Festuca-lolium* Complex Induced by Antimitotic Agents Colchicine, Oryzalin, and Trifluralin  
**Advisors:** Timothy Philips, Ph.D.

### EDUCATION:

07/94 Bachelor of Science in Crop Science  
Shanxi Agricultural University, Shanxi, China

07/97 Master of Science in Plant Genetics  
Shanxi Agricultural University, Shanxi, China

05/99 Master of Science in Statistics  
University of Kentucky, Lexington, KY

05/00 Doctor of Philosophy in Crop Science  
University of Kentucky, Lexington, KY

### ACADEMIC HONORS:

#### Undergraduate:

09/90 – 07/94 Shanxi Agricultural University Excellent Student Fellowship  
09/92 – 07/94 Zhou's Outstanding Student Award

#### Graduate School:

09/94 – 07/97 Shanxi Agricultural University Graduate Student Scholarship  
01/99 – 07/04 Tuition scholarship, University of Kentucky

#### Postgraduate:

08/2004 Enhancement Award, Vanderbilt University

### TRAINING:

08/04 – 07/08 Post-doctoral fellow, Vanderbilt University Medical Center, TN

### ACADEMIC APPOINTMENTS:

08/08 – Current Staff Scientist, Department of Biostatistics, Vanderbilt University School of Medicine

## **PROFESSIONAL ORGANIZATIONS:**

American Statistical Association  
American Thoracic Society

## **PROFESSIONAL ACTIVITIES:**

### **Intramural Seminars and Presentations:**

- 03/06 Infant Viral Exposure and Timing of Infection on the Risk of Childhood Asthma, Division of Allergy, Pulmonary and Critical Care Medicine Weekly Seminar
- 05/06 Infant Viral Exposure and Timing of Infection on the Risk of Childhood Asthma, Department of Biostatistics Weekly Seminar
- 01/07 Infections and Childhood Asthma: Chicken or Egg, Paramyxovirus Retreat, Division of Pediatric Infection Disease
- 04/07 Born at the Wrong Time: Early Viral Infection during Infancy Increases the Risk of Childhood Asthma, Division of Allergy, Pulmonary and Critical Care Medicine Weekly Seminar
- 11/07 Effect of Maternal Smoking on Childhood Asthma Is Mediated Through Bronchiolitis During Infancy, Division of Allergy, Pulmonary and Critical Care Medicine Weekly Seminar
- 04/08 Poster presentation: Timing of Infant Viral Exposure on the Risk of Childhood Asthma. Presented at: 2nd Annual Postdoctoral Association Poster Symposium.
- 04/09 RSV prophylaxis use in Tennessee Medicaid Population, Division of Allergy, Pulmonary and Critical Care Medicine Weekly Seminar

### **Extramural Presentations**

- 04/01 Poster presentation: Efficiency of Amphiploid Production in Tall Fescue x Ryegrass Wide Hybrids. Presented at: American Society of Agronomy-Crop Science Society of America-Soil Science Society of America Annual Meetings, Charlotte, NC.
- 05/05 Poster presentation: Elevated urinary lipid oxidative markers during acute asthma exacerbations: clinical course and impact of systemic corticosteroids. Presented at: American Thoracic Society Annual International Meetings, San Diego, CA.
- 08/06 Poster presentation: Analysis of Respiratory Viral Exposure and Timing of Exposure during Infancy on the Development of Childhood Asthma. Presented at: Joint Statistical Annual Meeting. Seattle, WA.

- 05/07 Poster presentation: Timing of Infant Viral Exposure on the Risk of Childhood Asthma. Presented at: American Thoracic Society Annual International Meetings, San Francisco, CA.
- 08/08 Poster presentation: Season of Bronchiolitis and Early Childhood Asthma. Presented at: Joint Statistical Annual Meeting. Denver, CO.

**JOURNAL REVIEWER:** Journal of Allergy and Clinical Immunology (2)  
 Thorax (2)  
 Journal of the American Medical Association (1)  
 American Journal of Respiratory and Critical Care Medicine (1)

**TEACHING ACTIVITIES:**

- 02/04 - Present Teaching Assistant, Biostatistics II (MSCI 524-5015), 4 credit-hour required course for the Master of Science in Clinical Investigation program, Vanderbilt University School of Medicine.
- 02/08 - Present Teaching Assistant, Biostatistics II (MPH 514-5509), 4 credit-hour required course for the Master of Public Health program, Vanderbilt University School of Medicine
- 02/08 - Present Teaching Assistant, Epidemiology I (Dr. Shintani's section, MSCI), 4 credit-hour required course for the Master of Science in Clinical Investigation program, Vanderbilt University School of Medicine.

**RESEARCH PROGRAMS:**

**Funded Research:**

1F32HL086048-01 (Wu) 08/01/06 - 07/31/08  
 NIH/NHLBI \$99,702 total project direct cost  
 "Infant Viral Exposure and Risk of Childhood Asthma"

This project will explore both the timing of infection and the influence of viral exposure intensity during infancy on the development of childhood asthma to identify critical time periods in infancy during which seasonal respiratory viral infection increases susceptibility to develop childhood asthma. The implications of this research relate to the potential for identifying critical time periods during which preventing infection could prevent or alter the phenotypic expression of asthma in predisposed hosts. Dr. Hartert serves as mentor for this training grant project.

Thrasher Research Fund (Wu) 10/01/06 - 09/30/07  
 \$25,000 total project direct cost  
 Timing and Etiology of Infant Bronchiolitis on the Risk of Childhood Asthma

The objectives of this study are to determine if viruses are associated with, or cause, childhood asthma, to identify the susceptible age period(s) during which viral infection increases the risk of subsequent development of childhood asthma, and to differentiate the effect of different viruses on the risk of childhood asthma. Results of this study will enable us to understand the role and timing of viral infection

during infancy on the risk of developing childhood asthma which might open new options for targeted prevention or altering the subsequent severity of asthma in children who are known to be at risk of developing asthma (as it is a familial disease). Dr. Hartert serves as mentor for this training grant project.

5 U01 HL 072471-05 (Sheller) 09/30/02 - 07/31/07 (NCE)  
NIH/NHLBI \$2,112,077 total project direct cost  
"Asthma Disparities in Cohorts at High-risk for Morbidity"  
Program P.I.: James R. Sheller, M.D.  
Deputy Director: Tina V. Hartert, M.D., M.P.H.  
Project P.I.: Tina V. Hartert, M.D., M.P.H.  
Project: "Maternal Asthma and Racial Differences in Asthma-Specific, Maternal, Perinatal and Infant Outcomes"

The goals of the Center are to determine the mechanisms underlying the disparities in asthma, and to target for asthma-specific, material and perinatal complications, among pregnant women with asthma.

5 NIH R01 AI 50884-03 08/01/03 - 01/31/08  
NIH/NIAID \$2,296,331 total project direct cost  
"Dietary Antioxidants and Incidence of Adult-Onset Asthma" – Shanghai Women's Asthma and Allergy Study SWAAS)  
Principal Investigator: Tina V. Hartert, M.D., M.P.H.

The objectives of this proposal are to study the association of dietary and serum antioxidants and oxidative stress on adult-onset asthma and allergic rhinitis incidence among a cohort of 75,000 women.

Thrasher Research Fund 07/01/04 - 06/30/07  
"Modifiable Risk Factors for Severe Bronchiolitis Among Hospitalized Infants"  
Principal Investigator: Tina V. Hartert, M.D., M.P.H.

The objective of this study is to determine the relationship between severe RSV bronchiolitis requiring hospitalization and family history of atopy.

1 R03 MH 077902-0 8/10/06 - 07/31/08  
NIH/NIMH \$98,550 total project direct cost  
"Maternal and Infant Effects of Treated and Untreated Depression during Pregnancy"  
Principal Investigator: Tina V. Hartert, M.D., M.P.H.

The objectives of this study are to determine the risks of treated and untreated depression among pregnant women on maternal, perinatal and infant outcomes. Results of this study will enable us to understand effects of depression and medication for depression on both mothers and infants.

1 R21 AT004738 (Hartert) 06/30/2008 – 06/29/2011  
NIH/AT \$403,558 total project direct cost  
"Antioxidant Enzyme Induction as a New Approach to Therapy in Patients with Asthma"

This study is to determine if induction of antioxidant enzymes can alter inflammatory markers in asthma that are known to be linked with clinical endpoints, lung function and oxidant stress.

K24 DK062849-06 (Ikizler)  
NIH/NIDDK  
"Nutrition and Metabolism in Dialysis Patients"

01/01/2008-12/31/2012  
\$157,948 total project direct cost

The aim of this study is to identify the mechanism(s) by which CHD patients lose muscle mass and test certain interventions that will either prevent whole-body and muscle protein breakdown or enhance muscle growth.

1U01DK082192-01 (Ikizler)  
NIH/NIDDK  
"Impact of Acute Kidney Injury on Kidney Disease Progression"

09/11/2008-06/30/2013

The aim of this study is to establish an Acute Kidney Injury (AKI) Natural History Consortium with the primary objective of following the natural history of patients with AKI after they finish the acute phase of their illness for comparison with concurrent relevant control patients.

## BIBLIOGRAPHY

### PEER REVIEWED PUBLICATIONS:

#### A. Original Investigations

1. **Wu, P.**, Nan, J., Lu, B., Use of BT-4 biological pesticide for the prevention and control of cotton bollworms (*Heliothis Armigera* (Hubner)). *Journal of Shanxi Agricultural University*.15(3):293-295, 1995.
2. Enriquez, R., **Wu, P.**, Griffin, M.R., Gebretsadik, T., Shintani, A., Mitchel, E., Carroll, K.N., Hartert, T.V. Cessation of asthma medication in early pregnancy. *American Journal of Obstetrics and Gynecology*. 195(1): 149-153, 2006.
3. **Wu, P.**, Griffin, M.R., Richardson, A., Gabbe, S.G., Gambrell, M.A., Hartert, T.V. Influenza vaccination during pregnancy: opinions and practices of obstetricians in an urban community. *Southern Medical Journal*. 99(8): 823-828, 2006.
4. **Wu, P.**, Roberts, L.J., Shintani, A.K., Sheller, J.R., Minton, P.L., Higgins, S., Hartert, T.V. Changes in urinary dinor dihydro F<sub>2</sub>-Isoprostane metabolites concentrations, a marker of oxidative stress, during and following asthma exacerbations. *Free Radical Research*. 41(9): 956-962, 2007.
5. Carroll, K.N., Gebretsadik T., Griffin, M.R., Dupont, W.D., Mitchel, E., **Wu, P.**, Enriquez, R., Hartert, T.V. Maternal Asthma and Maternal Smoking Are Associated with Increased Risk of Bronchiolitis during Infancy. *Pediatrics*. 119(6):1104-12. 2007.
6. Enriquez, R., Griffin, M.R., Carroll, K.N., **Wu, P.**, Cooper, W.O., Gebretsadik, T., Dupont, W.D., Mitchel, E., Hartert, T.V. Impact of Maternal Asthma and Asthma Control on Pregnancy and Perinatal Outcomes. *Journal of Allergy and Clinical Immunology*. 129(3):625-30. 2007.

7. Carroll, K.N., Gebretsadik T., Griffin, M.R., **Wu, P.**, Dupont, W.D., Mitchel, E., Enriquez, R., Hartert, T.V. The increasing Burden and Risk Factors for Bronchiolitis Related Healthcare Visits in the First Year of Life. *Pediatrics*. 2008 Jul;122(1):58-64
8. Jia, Y., Lu F, Zeng G., Sun X., Xiao Y., Lu L., Liu W., Ni M., Qu S., Li C., Liu J., **Wu P.**, Vermund S.H. Predictors of HIV infection and prevalence for syphilis infection among injection drug users in China: Community-based surveys along major drug trafficking routes. *Harm Reduction Journal*. 2008 Aug 25;5:29
9. **Wu, P.**, Dupont, W.D., Griffin, M.R., Carroll, K.N., Mitchel, E., Gebretsadik T., Hartert, T.V. Evidence of a causal role of winter virus infection during infancy on early childhood asthma, *American Journal of Pulmonary and Critical Care Medicine*. 2008 Dec 1;178(11):1123-9
10. Sundell, M., Cavanaugh, K.L., **Wu, P.**, Shintani, A., Hakim, R.M., Ikizler, A. Oral protein supplementation alone improves anabolism in a dose dependent manner in chronic hemodialysis patients. *Journal of Renal Nutrition* (In press)
11. Carroll, K.N., **Wu, P.**, Gebretsadik T., Griffin, M.R., Dupont, W.D., Mitchel, E., Hartert, T.V. Bronchiolitis Severity and the Risk of Early Childhood Asthma. *Journal of Allergy and Clinical Immunology*. (Accepted for publication, 2009)

**B. LETTERS TO EDITOR:**

1. **Wu, P.**, Carroll, K.N., Gebretsadik T., Griffin, M.R., Dupont, W.D., Mitchel, E., Hartert, T.V. Season of Infant Bronchiolitis and Estimates of Subsequent Risk and Burden of Early Childhood Asthma. *Journal of Allergy and Clinical Immunology*. 2009 Jan 30. [Epub ahead of print]

**ACADEMIC CITATION FREQUENCY:**

The following 6 publications by Dr. Wu and colleagues were listed by the Institute for Scientific Information (Web of Science) as being cited in the literature as of April 11, 2009. There are a total of 33 academic publications that have cited these papers (see <http://portal.isiknowledge.com/portal.cgi?DestApp=WOS&Func=Frame>)

Number of Times Cited	First Author	Journal	Year	Volume and Pages
11	Carroll	Pediatrics	2007	119(6): 1104-1112
8	Enriquez	Am J Obstet Gynecol.	2006	195(1): 149-53
7	Enriquez	JACI	2007	120(3): 625-630
3	Wu	SMJ	2006	99(8): 823-826
3	Carroll	Pediatrics	2008	122(1): 58-64
1	Wu	AJRCCM	2008	178(11): 1123-1129