

CURRICULUM VITAE

Larry Alan Pierce, M.S.

CURRENT POSITION Laboratory Manager, Neurosurgical Oncology Laboratory

Vanderbilt University Medical Center
Department of Neurological Surgery
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RELEVANT EXPERIENCE

- 09/05-06/08 **Vanderbilt University Medical Center, Nashville, Tennessee**
Research Coordinator, Department of Neurological Surgery
For Dr. Weaver's malignant tumor epigenetic biomarker studies, contributed to experimental designs, led laboratory protocol development, and implemented biomedical research designs. Responsible for management and coordination of sample collection, receipt, sample processing and database maintenance for both Dr. Weaver's clinical study and his NABTT0402 Study. Worked with Dr. Weaver in preparation of study budgets and grant applications, formatting of data for publication, assessment of funding vehicle strategies.
- 01/04-09/05 **Vanderbilt University Medical Center, Nashville, Tennessee**
Research Assistant III, Center for Health Services Research Molecular Epidemiology Lab
Primarily studied mitochondrial DNA damage and incidence and survival of breast cancer in a large Chinese population. Working under minimal supervision, performed, evaluated and implemented experimental and methods designs. Collaborated with off-site scientists both for experimental design and to obtain sample materials. Prepared data for analysis, and contributed to publication of results.
- 03/02-01/04 **Vanderbilt University Medical Center, Nashville, Tennessee**
Facility Manager, Southern Community Cohort Study Biosample Repository
As primary supervisor, managed a sample processing and storage facility receiving in excess of 1,000 bio-samples per month, supporting a major ongoing NIH-funded population study recruiting 100,000 patient participants in the southeastern USA. Provided logistical and coordination support for daily operations at 44 field sites, for 37 field recruiters. Provided training to field recruiters and study staff. Quality control and regulatory compliance consultant to supervisors, senior study staff, and investigators.
- 03/01-02/02 **Vanderbilt University Medical Center, Nashville, Tennessee**
Research Assistant I/II, Center for Health Services Research Molecular Epidemiology Lab
Under minimal supervision, designed and conducted routine to moderately complex molecular epidemiology experiments, and prepared data for biostatistical analysis, from more than 3,000 patients enrolled in the Shanghai Breast Cancer Study. Contributed to publication of results.
- 08/97-12/00 **Vanderbilt University, Nashville, Tennessee**
Graduate Research Assistant, Department of Biology
Conducted independent Masters' thesis research. Collaborated with other researchers inside and outside the research group and assisted with others' research. Contributed to publication efforts. Researched, developed and performed laboratory methods investigating neuropeptide agents effecting autonomic behaviors in insects.

EDUCATION

- 08/97-05/01 **Vanderbilt University**, Nashville, TN
M.S. in Biology
Thesis: “Cellular and Molecular Studies of Bursicon, an Insect Neuropeptide, in *Periplaneta americana*”
Honors: Graduate Research Assistance Fellowship 1998-1999
- 05/93-06/97 **Phillips University**, Enid, OK
B.S. in Biology
Honors: Graduated *cum Laude*; “Who’s Who Among American College Students,” 1997
- 04/88-07/88 **Defense Language Institute**, Monterey, CA
Egyptian Dialect Basic Immersion Course
Honor Graduate
- 01/87-04/88 **Defense Language Institute**, Monterey, CA
Modern Standard Arabic Basic Immersion Course
Honor Graduate
- 08/77-12/78 **University of Vermont**, Burlington, VT
Civil Engineering, Program not completed
- 09/71-06/77 **Union 32 High School**, Montpelier, VT (Junior-Senior High School)
High School Diploma
Honors: Honor Graduate, James L. Cross AFL-CIO Scholarship

AWARDS AND HONORS

- 1999-2000 Research Assistantship, Vanderbilt University
- 1998-1999 Graduate Research Assistance Fellowship, Vanderbilt University
- 1997 “Who’s Who Among American College Students, 1997”
- 1997 Finalist, “1997 Outstanding Senior, Sciences,” Phillips University
- 1997 Finalist, “1997 Representative Phillipian,” Phillips University
- 1995 HHMI Summer Undergraduate Research Program (Competitive), University of Arkansas
- 1994-1995 Freshman Academic All-American, U.S.A.A. and Phillips University
- 1993-1997 Academic Scholarship (100% Stipend), Department of Veterans’ Affairs and Phillips University
- 1992 Honorable Discharge, U.S. Army
- 1991 Army Commendation Medal (Impact Award), 101st Airborne Div.
- 1991 Southwest Asia Campaign Medal (Persian Gulf War; Two Awards)
 Operation “Desert Shield,” Operation “Desert Storm,” U.S. Army
- 1991 Liberation of Kuwait Medal, Kingdom of Saudi Arabia
- 1991 National Defense Service Ribbon, U.S. Army
- 1990 Army Achievement Medal (Impact Award), 101st Airborne Div.
- 1990 Army Achievement Medal (Impact Award), 101st Airborne Div.
- 1986 Army Commendation Medal (Service Award), 166th Military Intelligence Company
- 1986 Army Achievement Medal (Impact Award), 166th Military Intelligence Company
- 1985 Army Commendation Medal (Service and Impact Award), U.S. Army Field Station Okinawa
- 1983 Army Achievement Medal (Impact Award), U.S. Army Field Station Okinawa

PUBLICATIONS, PAPERS, PRESENTATIONS

Ye C, Shu XO, **Pierce L**, Wen W, Courtney R, Gao YT, Zheng W, Cai Q. (Submitted). Mutations in the Mitochondrial DNA D-loop Region and Breast Cancer Risk.

Ye C, Shu XO, Wen W, **Pierce L**, Courtney R, Gao YT, Zheng W, Cai Q. (2008). Quantitative analysis of mitochondrial DNA 4977-bp deletion in sporadic breast cancer and benign breast diseases. **Breast Cancer Res Treat.** 2008 Apr 108(3):427-34 [E-pub 2007 May 31].

K. D. Weaver, **L. Pierce**, J. Herman, S. A. Grossman (2008). Real-time polymerase chain reaction technique determines absolute copy number of plasma methylated MGMT gene promoter copies in newly diagnosed malignant glioma patients. **Abstracts, ASCO Conference 2008.**

Q Cai, **L Pierce**, W Wen, XO Shu, YT Gao and W Zheng (2007). Mutations in the Mitochondrial DNA D-loop Region in Sporadic Breast Cancer and their Associations with Breast Cancer Risk: a Report from the Shanghai Breast Cancer Study. **2007 AACR Abstracts.** 2007 AACR Meeting in Los Angeles, CA.

Pierce, L. (2005). Using PowerPoint Wisely: Never Having to Say, "Oops! I am sorry..." **Guest Lecture, MSPH73901: Advances in Public Health Readings.** Meharry Medical College, Nashville, TN. October, 2005.

Wen W, Cai Q, Shu XO, Cheng JR, Parl F, **Pierce L**, Gao YT, Zheng W.(2005). Cytochrome P450 1B1 and catechol-methyltransferase genetic polymorphisms and breast cancer risk in Chinese women: results for the shanghai breast cancer study and a meta-analysis. **Cancer Epidemiol Biomarkers Prev.** 2005 Feb; 14(2):329-35.

Shu XO, Moore DB, Cai Q, Cheng J, Wen W, **Pierce L**, Cai H, Gao YT, Zheng W.(2005). Association of cyclin D1 genotype with breast cancer risk and survival. **Cancer Epidemiol Biomarkers Prev.** 2005 Jan;14(1):91-7.

Shu XO, Gao YT, Cai Q, **Pierce L**, Cai H, Ruan ZX, Yang G, Jin F, Zheng W. Genetic polymorphisms in the TGF-beta 1 gene and breast cancer survival: a report from the Shanghai Breast Cancer Study. **Cancer Res.** 2004 Feb 1;64(3):836-9.

S.M. Boyapati , Shu X.-O., Cai Q., **Pierce L.**, Jin F., Dai Q., Gao Y.T., Zheng W. (2003). "CYP1A1 polymorphisms and breast cancer risk in a Chinese population." **2003 AACR Abstracts.** 2003 AACR Meeting in Toronto, Ontario, Canada.

Xiao-Ou Shu, Fan Jin, Qiuyin Cai, **Larry Pierce**, Hui Cai, Gong Yang, Zi-Xian Ruan, Yutang Gao, Wei Zheng (2003). "Genetic Polymorphisms in the *TGF-β1* and *XRCC1* Genes and Breast Cancer Survival: a Report from the Shanghai Breast Cancer Study." **2003 AACR Molecular and Genetic Epidemiology of Cancer Abstracts.** 2003 AACR Conference in Waikoloa, Hawaii.

H.-W. Honegger, D. Market, **L. A. Pierce**, E. M. Dewey, B. Kostron, M. Wilson, D. Choi, K. A. Klukas, and K. A. Mesce (2002). "Cellular Localization of Bursicon Using Antisera Against Partial Peptide Sequences of This Insect Cuticle-Sclerotizing Neurohormone." **Journal of Comparative Neurology** **452**:163-177.

M. Zhao, X.-O. Shu, Q. Cai, **L. Pierce**, Y.-T. Gao, Q. Dai, F. Jin, W. Zheng (2002). "NQO1 C609T Polymorphism, Endogenous Estrogen Exposure, and Breast Cancer Risk". **2002 AACR Abstracts.** 2002 AACR Meeting in San Francisco, CA.

Pierce, L.A. (2001) "Cellular and Molecular Studies of Bursicon, an Insect Neuropeptide, in *Periplaneta americana*" Thesis submitted and accepted by faculty of The Graduate School, Vanderbilt University, Nashville, TN, May, 2001.

H.-W. Honegger, M. Jadav, M. Wilson, **L. Pierce**. "Tracking down bursicon, the cuticle sclerotizing neurohormone of insects: sequence analysis and immunocytochemistry." **25th Annual East Coast Nerve Net Abstracts**, April 1999 Meeting at Woods Hole, MA.

Pierce, L. A. (1997) "Epicuticular Hydrocarbons and Asymmetric Mating in *Drosophila mojavensis*: A correlation study of links between environment, biochemistry, behavior and speciation in Mexican Fruit Flies." Senior Paper, **Phillips University Undergraduate Research Symposium**, Enid, OK, May 1997.