

## Texas State Vita

### 1. Academic/Professional Background

**A. Name:** Erica Nierth Simpson

**Title:** Senior Lecturer

### B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
PhD	2007	Tulane Medical School	Cell and Molecular Biology	<i>The Effects of Rapid Estrogen Signaling on Leiomyoma Expansion</i>
MS	1994	Tulane University	Ecology	<i>The Effects of Altered Hydrology on Secondary Productivity of Bottomland Hardwood Forests</i>
BS	1992	Texas Christian University	Biology	

### C. University Experience

Position	University	Dates
Senior Lecturer	Texas State University	2011-present
Instructor	Kingwood College/AHS	2010-2011
Instructor	Tulane Medical School	2007-2009
Instructor	Our Lady of Holy Cross College	2001-2002

### D. Relevant Professional Experience

Position	Entity	Dates
Postdoctoral research fellow	Center for Nuclear Receptors and Cellular Signaling; University of Houston	2009-2010
Postdoctoral research fellow	Center for Bioenvironmental Studies; Tulane University	2007-2009
Instructor	Ursuline Academy	2000-2001
Instructor	Mount Carmel Academy	1995-1999

### E. Other Professional Credentials

State of Louisiana teaching certificate in Secondary Biology.

## **II. Teaching**

### **B. Courses Taught**

Texas State University

Functional Biology

Lab Coordinator – Functional Biology

Tulane Medical School

Endocrine Pharmacology

Tulane University

Ecology Laboratory

Organismal Biology Laboratory

Cell Biology Laboratory

Molecular Biology Laboratory

Our Lady of Holy Cross College

General Biology for Majors

Nutrition for Nursing Majors

Louisiana State University

Ecology

Ecology Laboratory

Ursuline Academy

Environmental Science

Advanced Placement Biology

Mount Carmel Academy

Advanced Placement Biology

Atascocita High School/Kingwood College

Biology

Dual-credit/Advanced placement Biology

### **D. Courses Prepared and Curriculum Development**

Texas State University

Functional Biology

Functional Biology Laboratory

Our Lady of Holy Cross College

General Biology for Majors

Nutrition for nursing

Ursuline Academy

Environmental Science

Advanced Placement Biology

Mount Carmel Academy  
Advanced Placement Biology  
Atascocita High School  
Biology  
Dual-credit/Advanced placement Biology

**F. Submitted, but not funded, External Teaching Grants and Contracts:**

National Science Foundation (1998) – Technology in Secondary Science Classrooms

**III. Scholarly/Creative**

**A. Works in Print**

**2. Articles**

**a. Refereed Journal Articles:**

*Nierth-Simpson EN, Martin M, Chiang TC, Burow ME and JA McLachlan. 2009. Human uterine Smooth muscle and leiomyoma cells differ in their rapid estrogen signaling: implications for proliferation. Endocrinology 150(5): 2436-2445.*

Frigo DE, Basu A, *Nierth-Simpson EN, Weldon CE et al. 2006. P38 MAPK stimulates estrogen mediated transcription and proliferation of the p160 coactivator GRIP. Molecular Endocrinology 20:971-983.*

**b. Non-Refereed Journal Articles**

Tilgman S, *Nierth-Simpson EN, Wallace R, Burow ME, and JA McLachlan. 2010. Environmental Hormones: multiple pathways for response may lead to multiple disease outcomes. Steroids 75:520-523.*

McLachlan JA, *Nierth-Simpson EN, and M Martin. 2006. Endocrine disrupters and female reproductive health. Best Practices in Clinical Endocrinology and Metabolism 20(1): 63-75.*

**B. Works not in Print**

**1. Papers presented at professional meetings**

*Nierth-Simpson, E. (2008). Extra-nuclear estrogen signaling and uterine leiomyomas. Tulane*

*Medical School and Xavier University's Women's Health Research Day, LA.*

Nierth-Simpson E, Melnik L, Chiang TC, Bratton M, Burow ME, and JA McLachlan. (2008). Rapid Estrogen signaling events promot the growth of human leiomyoma cells. *Reproductive Tract Gordon Research Conference, NH.*

Nierth-Simpson E, Melnik L, Chiang TC, Bratton M, Burow ME and JA McLachlan. (2008) Estrogen signaling events promote the growth of human leiomyoma cells. *Endocrine Society Annual Meeting; San Franscisco, CA.*

Nierth-Simpson E, Melnik L, Chiang TC, Bratton M, Burow ME, and JA McLachlan. (2007). Rapid estrogen signaling promotes uterine leiomyomas. *Endocrine Society Annual Meeting; Toronto, Canada.*

Nierth-Simpson E, Melnik L and JA McLachlan. (2006). Role of PKC alpha in the promotion of uterine leiomyomas. *Reproductive Tract Gordon Research Conference, MA.*

Nierth-Simpson E, Melnik L and JA McLachlan. (2006). Role of PKC alpha in the promotion of uterine leiomyomas. *Endocrine Society Annual Meeting; Boston, MA.*

Nierth-Simpson E, Johanning K and JA McLachlan. (2003). Rapid G protein dependent signaling events triggered by 17-beta estradiol in myometrial and leiomyoma cells. *Tulane Health Science Center Research Days, LA.*

Nierth-Simpson E, Fox J, and JA McLachlan. (2002). Stilbene chemicals: potential disrupters of diverse signaling systems. *E.hormone Meeting, LA.*

## **2. Invited Talks, Lecturers and Presentations:**

Nierth-Simpson, E. (2008). Invited Speaker *E.hormone Conference*. New Orleans, LA.

## **D. Fellowships, Awards, Honors:**

2009-2010. Postdoctoral fellowship. Center for Nuclear Receptors and Cellular Signaling; University of Houston under the guidance of Jan-Ake Gustafsson, PhD.

2007-2009. Postdoctoral fellowship. Center for Bioenvironmental Signaling. Tulane University under the guidance of John A. McLachlan PhD and Matt E. Burow, PhD.

2006. Morris F. Schaffer Award. Best graduate student scientific presentation. Graduate Program in Biomedical Sciences, Tulane Medical School.

#### **IV. Service**

##### **A. University**

2013-present Pre health professions interview committee, Texas State University.

2013 Graduate student research mentor, Texas State University.

2013-present TriBeta Faculty mentor, Texas State University.

2011 Judge for Graduate College Research Days, Texas State University.

2011 American Physiology Association Physiology Understanding (PhUN) week – John Paul II Catholic High School; New Braunfels, TX.

2002-2005 SPRITE (Summer Pipeline Research Initiative; Tulane Experience) mentor

##### **B. Community**

2014 Booster club volunteer, football and band; New Braunfels High School, TX

2014 Secretary, Volunteer Coordinator, Lone Star Elementary PTA; New Braunfels, TX

2014 Youth Christian education, St. John's Episcopal Church; New Braunfels, TX

2013 Volunteer, monthly program for nursing home residents(TLC); New Braunfels, TX

2009-2011 Science Fair judge, secondary school; Houston, TX

1995-2006 *Save our Lake Foundation* volunteer; New Orleans, LA.

##### **E. Organizations**

###### **2. Professional**

2010-2011 Lake Houston Collaborative for Science Educators.

2002-2009 Endocrine Society

1994-2011 National Science Teachers Association