

## TEXAS STATE VITA

### I. Academic/Professional Background

#### A. Name and Title

Name: Dr. Erica N. Nierth

Title: Professor of Instruction

#### B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
PHD	2007	Tulane University	Molecular and Cellular Biology	
MS	1994	Tulane University	Ecology, Evolutionary and Organismal Biology	
BS	1992	Texas Christian University	Biology	

#### C. University Experience

<i>Position</i>	<i>University</i>	<i>Comments</i>	<i>Dates</i>
Senior Lecturer/Pre-Health Advisor	Texas State University. San Marcos, TX		2022 - Present
Senior Lecturer/Lab Coordinator	Texas State University. San Marcos, TX		2011 - 2022
Instructor	Kingwood College/AHS Center for		2010 - 2011
Post doctoral Research Fellow	Nuclear Receptors and Cellular Signaling; University of Houston		2009 - 2010
Instructor	Tulane Medical School		2007 - 2009
Postdoctoral Research Fellow	Center for Bioenvironmental Studies; Tulane University		2007 - 2009

<i>Position</i>	<i>University</i>	<i>Comments</i>	<i>Dates</i>
Instructor	Our Lady of Holy Cross College		2001 - 2002

## II. TEACHING

### A. Teaching Honors and Awards:

Award/Honor Recipient: Student Athlete's Faculty of the Year, Texas State University.  
2021

Award/Honor Recipient: College Achievement Award for Excellence in Teaching,  
College of Science and Engineering, Texas State University.  
2021

Award / Honor Recipient: Favorite Professor, Alpha Chi Honor Society, Texas State  
University.  
2016  
2014

### B. Courses Taught:

Texas State University:

BIO 1130 - FUNCTIONAL BIO LAB

BIO 1330 - FUNCTIONAL BIOLOGY

BIO 1330 – FUNCTIONAL BIOLOGY HYBRID

BIO 1330-FUNCTIONAL BIOLOGY HONORS

Kingwood College/AHS:

General Biology

Louisiana State University:

Ecology Laboratory

Ecology

Our Lady of Holy Cross College:

General Biology for Majors

Nutrition for Nursing Majors

Tulane Medical School:

Endocrine Pharmacology

Tulane University:

Cell Biology Laboratory

Ecology Laboratory

Molecular Biology Laboratory

Organismal Biology Laboratory

D. Courses Prepared and Curriculum Development:

Functional Biology Honors, Curriculum Development, Texas State University; January 2020- Present.

Functional Biology Hybrid, Curriculum Development, Texas State University: July 2016 - Present.

Functional Biology Laboratory, Curriculum Development, Texas State University: August 2011 - 2022.

Instructional Assistant Seminar, Texas State University: August 2013-2020.

Functional Biology, Curriculum Development, Texas State University: 2011 - Present.

Endocrine Pharmacology, Curriculum Development, Tulane Medical School: 2007 - 2009.

General Biology, Curriculum Development, Our Lady of Holy Cross College: 2001 - 2002.

F. Other:

Team Leader, BIO 1330 Course Redesign team, NSF funded (1928696) Faculty-Student Communities for improving STEM instruction (January 2021-Present).

Guest Lecture. (September 1, 2017 - 2019).

[BIO+5100\\_7100+Syllabus+2017+Fall \(1\)-1.pdf](#)

Additional Comments: Prepared presentation and led discussion for Professional Development (5100) - Sept 29, Oct. 6, Nov. 10.

Guest Lecture, Professional Development 5100. 25. (January 19, 2017 - April 27, 2017).

Additional Comments: Developed presentation & led discussion for Professional Development 5100, Spring 2017 (February 16 & 23, March 2).

**G. Teaching Professional Development Activities Attended**

Panelist, "TXST STEM Conference," Texas State University, San Marcos, TX, United States (April 10, 2024)

Training, "Transformers Course Redesign," Faculty Development, Texas State University, San Marcos, TX, United States (May – August 2023)

Training, "STEM Faculty/LA Communities summer institute," Texas State University, San Marcos, TX, United States (May 2021, 2022, 2023)

Virtual Conference Attendance, "Annual Conference," National Association of Biology Teachers (November 2020).

Conference Attendance, "Annual Conference," National Association of Biology Teachers, Chicago, IL, United States. (November 17, 2019 - November 19, 2019).

Conference Attendance, "Freshman Research Initiative," University of Texas, Austin, TX, United States. (October 3, 2018 - October 4, 2018).

Workshop, "Improving your Online Course," Quality Matters, San Marcos. (January 12, 2017).

Seminar, "Pedagogy in Large Lectures," Texas State University, San Marcos, United States. (October 2016 - December 2016).

Course for SACSOC requirements for faculty teaching distance education, "Foundations in Online Course Design and Development Course," Texas State University, San Marcos, TX, United States. (August 2016 - September 2016).

Seminar, "Hybrid Course Teaching Experiences." (September 6, 2016).

Tutorial, "Technology training - Camstasia & Articulate," Texas State University, San Marcos, TX, United States. (March 23, 2016).

Workshop, "Active Learning in a Flipped Class," Texas State University, San Marcos, TX, United States. (February 4, 2016).

**III. SCHOLARLY/CREATIVE**

A. Works in Print (including works accepted, forthcoming, in press):

2. Articles:

a. Refereed Journal Articles:

Nierth-Simpson, E. N., Martin, M., Chiang, T. C., Burow, M. E., & McLachlan, J. A. (2009). Human Uterine smooth muscle and leiomyoma cells differ in their rapid estrogen signaling: implications for proliferation. *Endocrinology*, *150*(5), 2436–2445.

Frigo, D. E., Basu, A., Nierth-Simpson, E. N., Weldon, C. E., Dugan, C. M., Elliot, S., ... Burow, M. E. (2006). P38 MAPK stimulates estrogen-mediated transcription and proliferation of the p160 coactivator GRIP1. *Molecular Endocrinology*, *20*, 971–983.

b. Non-refereed Articles:

Tilgman, S., Nierth-Simpson, E. N., Wallace, R., Burow, M. E., & McLachlan, J. A. (2010). Environmental hormones: multiple pathways for response may lead to multiple disease outcomes. *Steroids*, *75*, 520–523.

McLachlan, J. A., Nierth-Simpson, E. N., & Martin, M. (2006). Endocrine disrupters and female reproductive health. *Best Practices and Research in Clinical Endocrinology and Metabolism*, *20*(1), 63–75.

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Nierth-Simpson, E., Tulane Medical School and Xavier University's Women's Health Research Day, "Extra-nuclear estrogen signaling and uterine leiomyomas," LA. (2008).

Nierth-Simpson, E., Melnik, L., Chiang, T. C., Bratton, M., Burow, M. E., McLachlan, J. A., Endocrine Society Annual Meeting, "Rapid estrogen signaling events promote the growth of human leiomyoma cells but not normal uterine smooth muscle cells," San Francisco, CA, United States. (2008).

Nierth-Simpson, E., Melnik, L., Chiang, T. C., Bratton, M., Burow, M. E., McLachlan, J. A., Reproductive Tract Gordon Research Conference, "Rapid estrogen signaling events promote the growth of human leiomyoma cells but not normal uterine smooth muscle cells," NH. (2008).

Nierth-Simpson, E., Melnik, L., Chiang, T. C., Bratton, M., Burow, M. E., McLachlan, J. A., Endocrine Society Annual Meeting, "Rapid estrogen signaling promotes uterine leiomyomas," Toronto, Canada. (2007).

Nierth-Simpson, E., Melnik, L., McLachlan, J. A., Endocrine Society Annual Meeting, "Role of PKC $\alpha$  in the promotion of uterine leiomyomas," Boston, MA, United States. (2006).

Nierth-Simpson, E., Melnik, L., McLachlan, J. A., Reproductive Tract Gordon Research Conference, "Role of PKC $\alpha$  in the promotion of uterine leiomyomas," MA. (2006).

Nierth-Simpson, E., Johanning, K., McLachlan, J. A., E.hormone Meeting, "Rapid G-protein dependent signaling events triggered by 17-beta estradiol in myometrial and leiomyoma cells," LA. (2003).

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

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

## 2. Invited Talks, Lectures, and Presentations:

Nierth-Simpson, E., E.hormone Conference, New Orleans, LA, United States. (2008).

## 3. Consultancies:

For Profit Organization, KJ Scientific, Georgetown, TX, United States. (May 2014 – June 2017).

## D. Scholarly / Creative Fellowships, Awards, Honors:

Fellowship Recipient: Post-doctoral, Center for Nuclear Receptors and Cellular Signaling, University of Houston.  
2009 - 2010

Additional Comments: under the guidance of Jan-Ake Gustafsson, PhD

Fellowship Recipient: Post-doctoral fellowship, Center for Bioenvironmental Signaling.  
2007 - 2009

Additional Comments: Tulane University under the guidance of John A. McLachlan, PhD and Matt E. Burow, PhD

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

## IV. SERVICE

### A. Institutional

#### 1. University:

Pre-Health Advisor (August 2022 – Present).  
Member, Success Platform Committee. (February 2023).

University Mentor, Pre - Nursing Organization. (August 2019 - Present).

University Mentor, H-LSAMP scholar mentor (August 2021 – Present).

University Mentor, Pre-nursing living learning community. (August 24, 2017 – May, 2023).

Chair, Pre-health professions interview committee. (April 2023 – Present).

Member, Pre-health professions interview committee. (2013 - 2023).

Additional Comments: Texas State University

University Mentor, TriBeta Biological Honor Society Faculty Mentor/Co-Mentor. (2013 - 2023).

Facilitator, Faculty Development - Program for Excellence and Scholarship (PETS). (January 26, 2018).

Multiple faculty search committees. (2012 - 2015).

Additional Comments: Texas State University

Judge, Graduate College Research Days. (2011).

Additional Comments: Texas State University

SPRITE (Summer Pipeline Research Initiative; Tulane Experience) mentor for talented minority undergraduates. (2002 - 2005).

### 3. Department/School:

Member, Student Success Committee for the Selection of Software/Platform (October 2022 – February 2023).

Member, Non-thesis Student Master's Committee (December 2020, October 2021)

Member, Lecturer Evaluation Committee. (May 2016 – May 2019).

Member, Lecture/Lab Space Strategic Planning Committee. (May 2016 - December 2016).

Member, Service Strategic Planning Committee. (May 2016 - September 2016).

Volunteer Coordinator, Biology Colloquium. (February 2016 – May 2021).

### B. Professional:

Review/Referee (Howard Hughes Medical Institute) (2020)

Additional Comments: Reviewed question bank

Review/ Referee, MacMillan (2020)

Additional Comments: Reviewed *How Life Works* revision

Reviewer / Referee, McGrawHill. (December 2016).

Additional Comments: Reviewed digital Biology textbook

C. Community:

Interviewer, University of Incarnate Word School of Osteopathic Medicine (November 3, 2023).

Volunteer, Hernandez 5th grade STEM fieldtrip, San Marcos, TX. (January 16, 2019).

Volunteer, IDEA School visit (STEM), San Marcos, TX. (November 14, 2018).

Volunteer, STEM fieldtrip host San Marcos 5th graders, San Marcos, TX. (January 2018).

Volunteer, STEM fieldtrip host San Marcos 5th graders, San Marcos, TX. (January 2017).

Volunteer, STEM fieldtrip host San Marcos 5th graders, San Marcos, TX. (January 2016).

Volunteer, STEM fieldtrip host San Marcos 5th graders. (January 2015).

STEM Field trip host for San Marcos 5th graders, San Marcos, TX. (January 2014).

Additional Comments: Yearly field trip for 5th graders to science departments across campus

Science Fair Judge, secondary school, Houston, TX. (2009 - 2011).

Volunteer, Save Our Lake Foundation, New Orleans, LA. (1995 - 2006).

D. Organization Memberships:

Texas Association of Advisors for the Health Professions (August 2022 – Present)

National Association of Advisors for the Health Professions (August 202 – Present)

National Association of Biology Teachers (NABT). (1994-1999; 2009-2010; October 2019 - Present).



Lake Houston Collaborative for Science Educators. (2010 - 2011).

Endocrine Society. (2002 - 2009).

National Science Teachers Association. (1994 - 2000).

E. Service Honors and Awards:

Elected Member-at-Large, Texas Association of Advisors for the Health Professions Board (February 2024 – present).

Award / Honor Recipient: Foundations of Excellence Award, Student Foundation.  
December 2017

G. Service Professional Development Activities Attended:

Conference Attendance, “Annual Conference,” Texas Association of Advisors for the Health Professions, El Paso, Texas (February 2024).

Conference Attendance, “Bi-Annual Conference,” Southeastern Association of Advisors for the Health Professions, Tampa, Florida, United States (May 2023).

Conference Attendance, “Annual Conference,” Texas Association of Advisors for the Health Professions, Edinburg, Texas, United States (February 2023).

Seminar, "Disability Ally," Texas State University, San Marcos. (July 19, 2019).

Workshop, "Mental Health Part I," Texas State University, San Marcos. (February 7, 2018).

Workshop, "Allies Training," Texas State University, San Marcos. (January 11, 2017).