

CURRICULUM VITAE

January 2010

THEA M. EDWARDS, PhD

Research Assistant Professor

Center for Bioenvironmental Research
Department of Ecology and Evolutionary Biology
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EDUCATION

Ph.D. August 2005. Zoology, University of Florida, Gainesville. Dissertation directed by Prof. Louis J. Guillette, Jr., entitled, "Environmental influences on mosquitofish reproduction".
M.S. in Teaching. 1997. Botany with a minor in Education, University of Florida, Gainesville.
M.Ag. 1994. Environmental Horticulture, University of Florida, Gainesville.
B.S. 1991. Horticulture, Virginia Tech, Blacksburg.

RESEARCH INTERESTS

Legume symbiosis; role of biodiversity in ecosystem resilience; nitrogen cycle and nitrogen footprint; endocrine disruption in plants, wildlife, and humans; effects of nitrate on physiology and reproduction of aquatic vertebrates and legume plants; environment-gene interactions; fetal origins of disease; environmental regulation of reproduction and growth in plants and animals; adaptive and plastic responses to environmental signals in plants and animals; sustainability in urban ecosystems, mentoring the next generation of scientists.

CURRENT PROFESSIONAL APPOINTMENT

Research Assistant Professor, Center for Bioenvironmental Research, Tulane University, New Orleans, Louisiana, September 2009-present. Under the direction of Dr. John McLachlan.

Communications Fellow. Environmental Health Sciences, Charlottesville, Virginia.

PREVIOUS PROFESSIONAL APPOINTMENTS

Post Doctoral Research Associate and Associate Director of the UF-HHMI G.A.T.O.R. Program, Department of Zoology, University of Florida, Gainesville, December 2006 – September 2009. Under the direction of Prof. Louis Guillette.

The UF-HHMI G.A.T.O.R. (Group Advantaged Training of Research) Program (www.biology.ufl.edu/hhmi) is funded for four years by a Howard Hughes Medical

Institute Professorship to Prof. Louis Guillette. G.A.T.O.R. is a year-long research and mentoring experience in which a select group of graduate students each mentor two undergraduates in research related to the graduate student's PhD research. The program has five goals: 1) to give graduate students who plan careers as university faculty hands-on experience in mentoring; 2) to enable undergraduates to enter the "scientist in training" pipeline; 3) to improve communication among scientists and non-scientists to increase scientific literacy and awareness among the general public; 4) to develop portable resources to improve scientific and mentoring training of young people, and thereby increase retention and career fulfillment; and 5) to make the process of becoming a scientist visible and thereby accessible, especially to groups who are currently under-represented within the scientific community.

Post Doctoral Research Associate, Environmental Health Sciences, Charlottesville, VA, July 2005 – December 2006. Under the direction of Dr. John Peterson Myers.

Graduate Teaching Assistant, Department of Zoology, University of Florida, 1999 - 2005.
Courses taught: *Evolution, Ecology, and Behavior; General Biology Labs* and *Discussions; Marine Biology Lab*.

Research Technician, Department of Zoology, University of Florida, Summer 1999. Worked with Dr. Larry McEdward on several echinoderm larval ecology projects at the Keys Marine Laboratory in the Florida Keys and Friday Harbor Laboratories in Friday Harbor, Washington.

Adjunct Lecturer, Department of Biological Sciences, University of Florida, 1997 – 1999.
Taught *General Biology Labs*.

Molecular Biology Research Intern, International Paper Company, Bainbridge, GA, summer, 1998.

Science Teacher, Millhopper Montessori School, Gainesville, FL, Fall semester, 1997. Grades K-6.

Graduate Teaching Assistant, Department of Botany, University of Florida, 1996-1997. Taught *General Biology Labs*.

Molecular Biology Research Technician with Dr. John Davis, School of Forestry, and Dr. Karen Koch, Department of Horticultural Sciences, University of Florida. 1995.

Graduate Research and Teaching Assistant, Department of Environmental Horticulture, University of Florida, 1993-1994. Courses taught: *Plant Identification Lab* and *Plant Propagation Lab*.

REFEREED PUBLICATIONS

- Edwards T.M.**, Bybee S., Cox C., Germain-Aubrey C., Gomez J., Hamlin H., Roark A.M., Smith B., Watts D., Wessels F., White J., and Guillette L.J. Metamorphosis of Mentorship. *PLoS Biology*. *Under review*.
- Edwards T.M.**, Toft G., and Guillette L.J. Seasonal reproduction in female *Gambusia holbrooki* (eastern mosquitofish) from two Florida lakes. *Science for the Total Environment*. *In Press*.
- Crain D.A., Janssen S.J., **Edwards T.M.**, Heindel J., Ho S.M., Hunt P., Iguchi T., Juul A., McLachlan J.A., Schwartz J., Skakkebaek N., Soto A.M., Swan S., Walker C., Woodruff T.K., Woodruff T.J., Giudice L.C., Guillette L.J. 2008. Female reproductive disorders: the roles of endocrine-disrupting compounds and developmental timing. *Fertility and Sterility* 90(4): 911-940.
- Hamlin H.J., Moore B.C., **Edwards T.M.**, Larkin I.L.V., Boggs A., High W.J., Main K.L., and Guillette L.J. Jr. 2008. Nitrate-induced elevations in circulating sex steroid concentrations in female Siberian sturgeon (*Acipenser baeri*) in commercial aquaculture. *Aquaculture* 281(1-4): 118-125.
- Guillette L.J. Jr. and **Edwards T.M.** 2008. Environmental Influences on Fertility: Can We Learn Lessons from Studies of Wildlife? *Fertility & Sterility*, 89(2 Suppl): e21-4.
- Hamlin H.J., **Edwards T.M.**, Moore B.C., Main K.L., Guillette L.J. Jr. 2007. Stress and its relation to endocrine function in captive female Siberian sturgeon (*Acipenser baeri*). *Environmental Sciences*, 14(3): 129-39.
- Edwards T.M.** and Guillette L.J. 2007. Reproductive characteristics of male mosquitofish (*Gambusia holbrooki*) from nitrate-contaminated springs in Florida. *Aquatic Toxicology*, 85(1): 40-47.
- Guillette L.J., **Edwards T.M.**, Moore B.C. 2007. Alligators, Contaminants and Steroid Hormones. *Environmental Science*, 14(6): 331-347.
- Edwards T.M.** and Myers J.P. 2007. Environmental Exposures and Gene Regulation in Disease Etiology. *Environmental Health Perspectives*, 115(9): 1264-1270.
- Kristensen T., **Edwards T.M.**, Kohno S., Baatrup E., Guillette L.J. Jr. 2007. Fecundity, 17 β -estradiol concentrations and expression of vitellogenin and estrogen receptor genes throughout the ovarian cycle in female eastern mosquitofish from three lakes in Florida. *Aquatic Toxicology*, 81: 245–255.
- Edwards T.M.**, McCoy K.A., Barbeau T., McCoy M.W., Thro J.M.*, and Guillette L.J. 2006. Environmental context determines nitrate toxicity in Southern toad tadpoles (*Bufo terrestris*). *Aquatic Toxicology*, 78: 50-58.

Edwards T.M., Thompson H.D.*, Guillette L.J. 2006. Water Quality Influences Growth and Reproduction in Female Mosquitofish (*Gambusia holbrooki*) from Eight Florida Springs. *Environmental Health Perspectives*, 114, Supplement 1: 69-75.

Edwards T.M., Moore B.C., Guillette L.J. 2006. Reproductive Dysgenesis in Wildlife – A Comparative View. *International Journal of Andrology*, 29: 109-121.

Milnes M.R., Bermudez D., Bryan T., **Edwards T.M.**, Gunderson M.P., Larkin I., Moore B.C., Guillette L.J. 2006. Contaminant-induced feminization and demasculinization of non-mammalian vertebrate males in aquatic environments. *Environmental Research*, 100 (1): 3-17.

Guillette L.J. and **Edwards T.M.** 2005. Is Nitrate an Ecologically Relevant Endocrine Disruptor in Vertebrates? *Integrative and Comparative Biology*, 45 (1): 19-27.

Edwards T.M., Gunderson M.P., Milnes M.R., Guillette L.J. 2004. Gonadotropin-induced testosterone response in peripubertal male alligators. *General and Comparative Endocrinology*, 135: 372-380.

Gunderson M.P., Bermudez D.S., Bryan T.A., Degala S.*, **Edwards T.M.**, Kools S.A.E., Milnes M.R., Woodward A.R., Guillette L.J. 2004. Variation in sex steroids and phallus size in juvenile American alligators (*Alligator mississippiensis*) collected from 3 sites within the Kissimmee-Everglades drainage in Florida (USA). *Chemosphere*, 56: 335-345.

Heath J.A., Frederick P.C., **Edwards T.M.**, Guillette L.J. 2003. Reproductive physiology of free-living white ibises (*Eudocimus albus*) in the Florida Everglades. *General and Comparative Endocrinology*, 133: 118-131.

Toft G., **Edwards T.M.**, Baatrup E., Guillette L.J. 2003. Disturbed sexual characteristics in male mosquitofish (*Gambusia holbrooki*) from a lake contaminated with endocrine disruptors. *Environmental Health Perspectives*, 111: 695-701.

Gunderson M.P., Bermudez D.S., Bryan T.A., Crain D.A., Degala S.*, **Edwards T.M.**, Kools S.A.E., Milnes M.R., Guillette L.J. 2002. Temporal and spatial variation in plasma thyroxine (T₄) concentrations in juvenile alligators collected from Lake Okeechobee and the Northern Everglades, Florida, USA. *Environmental Toxicology and Chemistry*, 21: 914-921.

* Underlined authors were undergraduates at the time of publication.

REVIEWED BOOK CHAPTERS

Edwards T.M., Iguchi T., Guillette L.J. Jr. 2008. Genes to Ecosystems: Viviparous Fishes and Endocrine Disruption. *Viviparous Fishes, Volume 2*. Edited by Mari Carmen Uribe and Harry J. Grier. *In Press*.

Orlando E.F., Davis W.P., **Edwards T.M.**, Sulkowski D.F., Toft G., and Guillette L.J. Jr. 2005. Mosquitofish as Sentinels of Exposure to Environmental Androgens and Estrogens. In: *Viviparous Fishes*. Edited by Mari Carmen Uribe and Harry J. Grier. New Life Publications, Homestead, Florida. Pages 435 – 453.

Guillette L.J. Jr., Orlando E.F., Gunderson M., Milnes M.R., and **Edwards T.M.** 2000. Aquatic wildlife as sentinels for endocrine disruption: an update. In: *Endocrine Disruptors in the Marine Environment: Impacts on Marine Wildlife and Human Health*. Edited by S. De Guise. The Jackson Laboratory, Bar Harbor, ME, The Marine Environmental Research Institute of The University of Connecticut.

PAPERS IN PREPARATION

Edwards T.M., Miller H.D., Toft G., Benson N., Thro M., and Guillette L.J. Seasonal variation and reduced sperm quality in male *Gambusia holbrooki* (eastern mosquitofish) collected from contaminated versus reference lakes in Florida. *Biology of Reproduction*.

CURRENT PROJECTS

Edwards T.M. McLachlan J. Bacterial-partner biodiversity and host resilience in the face of environmental change: a study of legume symbiosis.

Edwards T.M., Hamlin H.J., and Guillette L.J. Experimental effects of nitrate on growth, endocrinology, and histology of alligator neonates.

Freymler H., Harty J., **Edwards T.M.**, Guillette L.J. Morphology of the Alligator Pancreas. (Haley Freymiller and Jenna Harty are UF undergraduates working with me).

Edwards T.M. The Effects of Nitrate on Sea Urchin Development.

TECHNICAL REPORTS

Edwards T.M., McCoy K., Barbeau T., and Guillette L.J. Effects of Nitrate/Nitrite on Two Sentinel Species Associated with Florida's Springs. A Technical Report Provided to the Florida Department of Environmental Protection, funded by FDEP Agreement No. S0028. April 2004.

PUBLISHED ABSTRACTS

Edwards T.M., Moore B.C., Guillette L.J. 2005. Metamorphic sex change: Evolutionary insight for endocrine disruption studies. *Integr. Comp. Biol.*, 45 (6): 991-991.

Edwards T.M., Guillette L.J. 2006. Seasonal reproductive variation in *Gambusia holbrooki* (eastern mosquitofish) from two Florida lakes. *J. Exp. Zool.*, 305A (2): 123-123.

Edwards T.M., Emrich R., Thompson H., Thro J.M., Chapman L., Guillette L.J., 2003. Reproductive physiology of *Gambusia holbrooki* collected from several Florida springs contaminated with varying amounts of nitrate. *Integr. Comp. Biol.*, 43: 1005-1005.

Edwards T.M., Benson N., Thro M., Toft G., Guillette L.J., 2002. Reduced sperm quality and seasonal reproductive variation in male *Gambusia holbrooki* (Eastern mosquitofish) collected from contaminated versus reference lakes in Florida. *Integr. Comp. Biol.*, 42: 1224-1224.

Edwards T.M., Gunderson M.P., and Guillette L.J. 2002. Variation in gonadotropin induced testosterone synthesis in juvenile alligators from contaminated and reference lakes. Proceedings of the 16th Working Meeting of the Crocodile Specialist Group. Gainesville, FL.

Edwards T.M., Nell T., and Barrett J.E. 1994. Ethylene Effects on Miniature Potted Roses. *HortScience*, 29(5): 431.

NON-REFEREED PUBLICATIONS

Edwards T.M. August 2008. Chemicals in Sewage Sludge: Health and Ecological Effects. Prepared for a course called "Improving Wastewater Treatment", offered by the Florida Environmental Health Association. Contact person is Albert Royster, Vice-Chairperson, FEHA

Edwards T.M. Late summer 2005. Fertilizer, the Good, the Bad, and the Ugly. The Strainer, a newsletter produced by Current Problems, Inc. and Adopt a River in Gainesville, Florida. Pp. 3-4.

Edwards T.M. Spring 2005. Pesticides in Our Water. The Strainer, a newsletter produced by Current Problems, Inc. and Adopt a River in Gainesville, Florida. P. 4.

GRANTS

Edwards T.M. 2010. Science Communications Fellowship, Environmental Health Sciences, Charlottesville, Virginia. Funded: \$5,000.

Edwards T.M. and Guillette L.J. 2002-2003. Florida Department of Environmental Protection, Florida Springs Initiative. Project entitled Effects of Nitrate Contamination on Two Sentinel Species Associated with Florida's Springs. Funded: \$86,000.

INVITED TALKS

Ecology Meets Medicine: Research in Endocrine Disruption. Invited seminar speaker for the Department of Biology. University of North Florida, Jacksonville, Florida, November 14, 2008.

Ecological Impacts of Endocrine Disruptors. Invited speaker for The Florida Water Resource Conference, Endocrine Disruptors Workshop. Organized by the Florida Section of the American Water Works Association. Tampa, Florida, May 5, 2008.

Is nitrate the next endocrine disruptor? A consideration for Florida's springs. Invited speaker for the Santa Fe Springs Working Group. High Springs, Florida, March 8, 2007.

Reproductive variability associated with nitrate exposure in Florida mosquitofish populations. Invited speaker for the Interdisciplinary Reproductive Biology Group seminar series, hosted by the Department of Animal Sciences, University of Florida, Gainesville, Florida, September 20, 2006.

Why all that pond scum is a bad sign. Invited speaker for a seminar series on aquatic animal health, hosted by the College of Veterinary Medicine, University of Florida, Gainesville, Florida, September 14, 2006.

Nitrate: Beyond Eutrophication. Invited seminar speaker, Mote Marine Laboratory, Sarasota, Florida, July 15, 2005.

Biological Effects of Nitrate. Invited speaker for the Florida Springs Conference, Gainesville, Florida. February 2003.

Gonadotropin Induction of Testosterone Synthesis in Alligators from Contaminated and Uncontaminated Lakes. Invited speaker for University of Florida Herpetology Club, September 13, 2000.

CONFERENCE AND DEPARTMENT PRESENTATIONS

Metamorphic Sex Change: Evolutionary Insight for Endocrine Disruption Studies. Society of Integrative and Comparative Biology, Orlando, Florida. January 2006.

*Endogenous androgens and spermatogenesis in wild *Gambusia holbrooki*.* 15th International Congress of Comparative Endocrinology, Boston, Mass. May 24, 2005.

Environmental Influences on Mosquitofish Reproduction. Exit Seminar, Department of Zoology, Univ. of Florida, Gainesville, Florida. May 17, 2005.

*Effect of nitrate on reproduction of *Gambusia holbrooki*.* Society of Integrative and Comparative Biology, New Orleans, LA. January 2004.

*Seasonal reproductive variation and reduced sperm quality in male *Gambusia holbrooki* (eastern mosquitofish) collected from contaminated versus reference lakes in Florida.* Society of Integrative and Comparative Biology, Toronto, Ontario. January 2003.

Seasonal reproduction in male Gambusia holbrooki from two Florida lakes. Graduate Student Symposium, Department of Zoology, University of Florida, Gainesville, Florida. April 2002.

Seasonal Reproduction in Gambusia holbrooki (eastern mosquitofish) in two Florida lakes. Florida Ecology and Evolution Symposium, Archibald Biological Station, Lake Placid, Florida. April 2002.

Teaching Science Learning, Learning Science Teaching – How to Promote Meaningful Learning in Science. MST exit seminar, University of Florida. April 1997.

INVITED LECTURES

Endocrine disruptors and you! Guest lecturer for a course on Aquatic Toxicology. University of Florida, Gainesville, Florida, April 13, 2009.

Endocrine disruptors: Impact on children and families. Guest lecturer for a course on human development. University of Florida, Gainesville, Florida, January 30, 2009.

Applications of Endocrine Disruption Research. Guest speaker for a course on public health. University of Florida, Gainesville, Florida, November 17, 2008.

Developmental Origins of Disease: Prenatal, Perinatal, and Infant Exposures. Guest lecturer for a course on the biology of reproduction. University of Florida, Gainesville, Florida, April 14, 2008.

Environmental Causes of Disease. Guest speaker for a course on environmental health. University of Florida, Gainesville, Florida, April 7, 2008.

Environmental Contaminants and Health. Guest speaker for a course on contaminants and culture. University of Florida, Gainesville, Florida, September 4, 2007.

Environmental Contaminants and Health. Guest lecturer for an honors course on contemporary issues in science. University of Florida, Gainesville, Florida, October 12, 2006.

Reproductive Hormones. Guest speaker for a course on Human Sexuality. University of Florida, Gainesville, Florida, September 13, 2006.

Environmental Contaminants and Health. Guest speaker for a course on contaminants and culture. University of Florida, Gainesville, Florida, September 5, 2006.

Gene Regulation. Guest speaker for a course on molecular endocrinology, University of Florida. January 24, 2006.

Air and Water Pollution. Guest speaker for a course on contaminants and culture. University of Florida, Gainesville, Florida, September 27, 2005.

Endocrine Disrupting Contaminants. Guest speaker for a course on culture and contaminants. University of Florida, Gainesville, Florida, August 30, 2005.

Hormones and Human Reproduction. Guest speaker for course on human sexuality, University of Florida, September 2004.

Endocrine Disrupting Contaminants and Health. Course guest speaker, University of Florida, October 2002.

DDT and Endocrine Disruption. Course guest speaker, University of Florida, April 2002.

POSTERS AND CONFERENCE ATTENDANCE

Edwards T.M., Roark A.M., Guillette L.J. *Mentoring the Next Generation of Scientists*. Poster given at the annual Society for Integrative and Comparative Biology (SICB) meeting, Seattle, Washington, January 3-8, 2010.

Edwards T.M. *Eutrophication is Environmental Obesity, and Other Stories of Excess*. Poster given at the e.hormone Conference, Tulane University, New Orleans, Louisiana, October 2009.

Edwards T.M., Guillette L.J. Jr. *UF-HHMI G.A.T.O.R. Program Group Advantaged Training of Research*. Poster given at the United Kingdom-Japan Conference on Endocrine Disruptors, Exeter, England, October 5-8, 2008. Attendance at this conference is by invitation only.

Edwards T.M., Hyndman K.A., Moore B.C., Guillette L.J. Jr. *Trophotaenia: A New Model for the Effects of Nitrate on Pregnancy and Fetal Growth*. Poster given at the Gordon Conference on Endocrine Disruptors, Waterville Valley, New Hampshire, June 2008.

Attendee: Gordon Conference on Endocrine Disruptors, Italy, June 2006.

Edwards T. M., McCoy K., Emrich R., Thompson H., Thro J. M., and Guillette L. J. *The effects of nitrate on amphibian metamorphosis*. Poster given at e.hormone conference on endocrine disruptors, New Orleans, October 2003.

Edwards T. M., Gunderson M.P., Trindade A., and Guillette L.J. Variation in Gonadotropin-induced testosterone synthesis in juvenile alligators from contaminated and reference lakes. 16th working meeting of the crocodile Specialist Group, Gainesville, Florida, October 7-10, 2002.

Edwards T. M., Benson N., and Guillette L.J. *Seasonal sperm counts and viability for *Gambusia holbrooki* (eastern mosquitofish) in two Florida lakes*. Poster given at Viviparous Fish Meeting, Mexico, March 2002

Edwards T.M., Gunderson M.P., Orlando E.F., and Guillette L.J. *Gonadotropin Induction of Testosterone Synthesis in Alligators from Contaminated and Uncontaminated Environments*. Poster given at the e.hormone Conference, New Orleans, October 2000.

Edwards T.M., Gunderson M.P., Orlando E.F., and Guillette L.J. *Effects of embryonic xenoestrogen exposure on testosterone synthesis in juvenile male alligators*. Poster given at the Gordon Conference on Endocrine Disruptors, Plymouth, New Hampshire, June 2000.

Attendee: Society of Integrative and Comparative Biology (SICB) Conference, Atlanta, GA, January 2000.

Attendee: e.hormone Conference - Estrogens in the Environment, New Orleans, October 1999.

UNDERGRADUATES MENTORED

Honors Thesis Students

1. Gina Long: Spring 2000-Spring 2001. **Honors thesis:** “Skeletal Clear and Stain Method for *Gambusia holbrooki*”
2. Annie Heffernan: Spring 2000-Spring 2002. **Honors thesis:** “The fecundity of female *Gambusia holbrooki* in Lake Apopka, a polluted environment, compared to a reference site, Lake Woodruff.” Went on to medical school.

Independent Research Students

1. Hilary Thompson (UF): Fall 2000 – Spring 2003. Went on to graduate school.
2. Rebecca Emrich (UF): Spring 2001 – Spring 2003. Went on to graduate school.
3. John Matt Thro (UF): Spring 2001 – Spring 2003.
4. Lisa Choe (UF): Spring 2001 – Summer 2003. Went on to medical school.
5. Maria Paredes (UF): Spring 2002 – Spring 2003. Went on to pharmacy school.
6. Elisabeth Kuehlem (UF): Spring 2002.
7. Donnell Bowen (UF): Spring 2002. Went on to medical school.
8. Chinenye Echeazu (UF): Summer 2001. Went on to medical school.
9. Laura Patterson (UF): Fall 2001. Went on to graduate school.
10. Paree Taslimi (UF): Summer 2001.
11. Fred Norris (UF): Summer 2002 – Spring 2003.
12. Kelly April (UF): Summer 2002 – Spring 2003. Went on to graduate school.
13. Scott Watson (UF): Summer 2002 – Spring 2003. Went on to dental school.
14. Rich Lufkin (UF): Spring 2003.
15. Jaime Joyce (UF): Fall 2002 – Spring 2003.
16. Tricia Bardis (UF): Spring 2003 – Summer 2003.
17. Sarah Tynes (High School – Summer Internship) (UF): Summer 2003.
18. Scott Schultz (UF): Fall 2003. Went on to medical school.
19. Chad Mackman (UF): Fall 2003 – Spring 2004. Went on to medical school.
20. Koo Chung (UF): Fall 2003 – Spring 2005. Went on to graduate school.
21. Rachele Degraff (UF): Summer 2007 – Spring 2008.
22. Haley Freymiller (UF): Summer 2008 – present.

23. Jenna Harty (UF): Spring 2009 – present.
24. Anna Whalen (Tulane): Fall 2009 – present.
25. Andy Zellinger (Tulane): Spring 2009 – present.

RESEARCH SKILLS

Lab skills: Raising tadpoles, fish, and plants under laboratory or greenhouse conditions, DNA and RNA extractions, PCR, and cloning, bacterial culture, RIA, ELISA, paraffin histology, immunohistochemistry, short-term tissue culture, anesthesia and blood sampling procedures, microdissection, light microscopy, photography, and image analysis.

Field skills: Seining and fish trapping techniques, plant identification, airboat operation, SCUBA diving, and staying hydrated.

IN THE NEWS

News articles and reports for which I was interviewed, or that cite my work.

Johnston, Jade, January 2010. Lamarck lives! The epigenetic revolution in environmental health. *Health and Environment Online*, <http://healthandenvironmentonline.com/current-issue/>.

Edwards and Myers, 2007. Inaugural “Article of the Month” on the *Children’s Environmental Health Network*, March 2008, http://www.cehn.org/science_aom.htm.

Crabbe, Nathan. May 13, 2007. Health risk from springs' pollution not fully known. *The Gainesville Sun*, <http://www.gainesville.com/article/20070513/LOCAL/705130312>.

SERVICE

Reviewer - Journals

American Journal of Respiratory and Critical Care Medicine
Aquatic Toxicology
Archives of Environmental Contamination and Toxicology
Environmental Health Perspectives
Environmental Research
Epigenetics
Journal of Fish Biology
Journal of Herpetology
Reproduction
Theriogenology
Turkish Journal of Zoology

Reviewer – Grants

American Diabetes Association Research Funding Program

Representative Public Outreach

- Two-part public education series on endocrine disruption presented at *Indigo*, a local green store in Gainesville, Florida. Part I: Bisphenol A (BPA), the poster child for a paradigm shift in how we think about contamination. Part II: Local and personal solutions to endocrine disruption. Presented in July and August, 2008.
- Guest speaker on genetics for an 8th grade class at Mebane Middle School in Alachua, Florida, September 26, 2008.
- Guest speaker on genetics for two 5th grade classes at Chiles Elementary School in Gainesville, Florida, September 27, 2006.
- Faculty representative for mock qualifying exams for graduate students in the Department of Zoology, University of Florida, September 26, 2006.
- Presentation on natural history and adaptations of alligators, given to group of 10-13 year olds participating in the University of Florida's summer GatorLab. July 11, 2006.
- Reviewer for a report on nitrates produced by St. Johns River Water Management District in Florida, September 2005
- Panel Member for the Women in Science Symposium sponsored by the UF chapter of Undergraduate Women in Science. April 2, 2005.
- Undergraduate Research Committee, Department of Zoology, University of Florida. 2004-2005 academic year.
- Alligator Biology booth, University of Florida Homecoming Parade, Gainesville, Florida, November 2002.
- Teacher Workshops on micro-dissection of mosquitofish and measuring sperm count and viability in *Gambusia holbrooki*. Workshops were sponsored by the Center for Pre-collegiate Education and Training, University of Florida. February 2002.
- Vice President of the Graduate Student Body, Department of Zoology, University of Florida. 2001 - 2002 academic year.
- Presentation on alligators, fish, and being a scientist for summer camp group of middle school students aspiring to become veterinarians. July 2001.
- Seminar Committee, Department of Zoology, University of Florida. 1999 – 2000 academic year.

- Herpetology presentation on alligators, turtles, snakes, frogs, iguanas, and bearded dragons. Norton Elementary School (1st grade), Gainesville, Florida. November 8, 2000.
- Alligator talk at PK Yonge Laboratory School, 6th grade. Gainesville, FL. March 17, 2000.
- Volunteered as a weekly botany instructor for the Millhopper Montessori School in Gainesville, FL. Spring 1996 and spring 1997.