

# Johanna Ruth Rochester, M.S., Ph.D.

jorochester@tds.net  
johanna.rochester@gmail.com  
tedx.org

## EDUCATION AND EMPLOYMENT

- Sep 2012- Present* Research Associate at The Endocrine Disruption Exchange (TEDX), a non-profit organization that compiles and disseminates information on endocrine disrupting chemicals (EDCs) for academics, policy makers, and the public. My primary duty is writing and editing systematic reviews and reports on the subject of EDCs and human health (funded by TEDX, which receives grants from private foundations and individuals.)
- May 2015- Present* Independent Consultant/Reviewer of systematic review protocols for the Office of Health Assessment and Translation, National Toxicology Program (funded by NTP).
- Jan 2015- Present* Independent Contractor for Social & Science Systems, working on systematic reviews for the National Toxicology Program (funded by NTP). I work on data extraction and analysis for systematic reviews of chemical effects on human health.
- Feb 2009- Sept-2012* Postdoctoral fellow in a molecular neuroendocrine and reproductive biology laboratory.  
(PI: Dr. Pei-San Tsai)  
Department of Integrative Physiology  
University of Colorado, Boulder
- 2004-2008* Ph.D. Molecular, Cellular, and Integrative Physiology,  
with a Designated Emphasis in Reproductive Biology  
December 2008  
(Advisor: Dr. James Millam)  
University of California, Davis
- DISSERTATION:** Environmental estrogens and avian reproduction: Biomarkers of exposure and the possible role of phytoestrogens in the ecosystems of wild birds (December, 2008).  
(<http://proquest.umi.com/pqdweb?index=0&did=1701207011&SrchMode=2&sid=1&Fmt=2&VInst=PRO&VType=PQD&RQT=309&VName=PQD&TS=1262624600&clientId=56281>)
- 2002-2005* M.S. Avian Sciences, December 2005  
(Advisor: Dr. James Millam)  
University of California, Davis
- THESIS:** Phytoestrogens in songbird seed: what are the consequences for reproduction and plant-bird interactions?
- 2001-2002* Research Technician in an avian reproductive biology laboratory  
(PI: Dr. James Millam)  
University of California, Davis
- 1997-2001* B.S. Avian Sciences, June 2001  
University of California, Davis  
Graduated with High Honors

## PUBLICATIONS: REVIEWS AND SYSTEMATIC REVIEWS

1. **Rochester JR**, Bolden AL, Kwiatkowski CF. 2015 Prenatal exposure to bisphenol A and hyperactivity: implications for attention deficit hyperactivity disorder, a systematic review and meta-analysis. *Submitted to PLOSOne*.
2. **Rochester JR**, Bolden AL. 2015. Bisphenol S and F: A Systematic Review and Comparison of the Hormonal Activity of Bisphenol A Substitutes. *Environmental Health Perspectives*. *Epub ahead of print*.
3. **Rochester JR**. 2013. Bisphenol A and Human Health: A Review of the Literature. *Reproductive Toxicology*. 42: 132-155.
4. Tsai- PS, Brooks LR, **Rochester JR**, Kavanaugh SI, Chung WJC. 2010. Fibroblast growth factor signaling in the developing neuroendocrine hypothalamus. *Frontiers in Neuroendocrinology*. 32: 95-107.
5. **Rochester JR**, Millam JR. 2009. Phytoestrogens in avian ecosystems: exploring the possible role of plant compounds in the breeding ecology of wild birds. *Comparative Biochemistry and Physiology. Part A: Integrative Physiology* 154: 279-288.

#### PUBLICATIONS: PRIMARY RESEARCH STUDIES

1. **Rochester JR**, Chung WCJ, Hayes, TB, Tsai P-S. 2012. Opposite-sex housing reactivates the declining GnRH system in aged transgenic male mice with FGF signaling deficiency. *American Journal of Physiology: Endocrinology and Metabolism*. 303: E1428-1429.
2. **Rochester JR**, Forstmeier W, Millam JR. 2010. Post-hatch oral estrogen in zebra finches (*Taeniopygia guttata*): Is infertility due to disrupted testes morphology or reduced copulatory behavior? *Physiology and Behavior*. 101: 13-21.
3. Tsai P-S, Sun B, **Rochester JR**, Wayne NL. 2009. Gonadotropin-releasing hormone-like molecule in the gastropod, *Aplysia californica*, is not an acute reproductive activator. *General and Comparative Endocrinology*. 166: 280-288.
4. **Rochester JR**, Klasing KC, Stevenson L, Denison MS, Berry W, Millam JR. 2009. Dietary red clover (*Trifolium pratense*) induces oviduct growth and decreases ovary and testes growth in Japanese quail chicks. *Reproductive Toxicology* 27: 63-71.
5. **Rochester JR**, Heiblum R, Rozenboim I, Millam JR. 2008. Post-hatch oral estrogen exposure reduces oviduct and egg mass and alters nest-building behavior in adult zebra finches (*Taeniopygia guttata*). *Physiology and Behavior* 95: 370-380
6. Forstmeier W, **Rochester J**, Millam JR. 2008. Digit ratio unaffected by estradiol treatment of zebra finch nestlings. *General and Comparative Endocrinology* 156: 379-384.

#### OTHER ACTIVITIES

- Provided testimony on behalf of the Natural Resources Defense Council during the meeting of the Cal/EPA DART committee to list bisphenol a as a reproductive toxicant on proposition 65, May 7<sup>th</sup>, 2015. The NRDC paid for my travel costs to this meeting.

#### AD HOC REVIEWER

- General and Comparative Endocrinology
- Chronobiology International
- Steroids
- Journal of Pharmacy and Pharmacology
- Journal of Animal Science and Biotechnology

#### SELECTED AWARDS, GRANTS, AND HONORS

##### Post-Graduate

NIH individual postdoctoral NRSA (3 years)

Title: The role of social interaction in restoring the aging GnRH system.

PI: J. Rochester, Sponsor: P-S. Tsai

\$133,274.00

Awarded July 2010-Completed Oct 2012

**Graduate**

- 2005-present* Phi Kappa Phi (academic honor society) Member
- 2006-present* Phi Sigma (biological sciences honor society) Member
- 2008* Participant in the Young Investigators Symposium, International Society of Avian Endocrinology Meeting, Leuven, Belgium, July 2008.
- 2008* First place, Graduate Student Oral Presentation Award, Society of Environmental Toxicology and Chemistry (SETAC, Northern California Chapter) Meeting, Berkeley, CA (\$300)
- 2007* NSF E-BIRD Exchange Visit Grant to study in Australia, an inter-laboratory exchange visit to advance the collaboration of ecologists and endocrinologists in the area of avian endocrinology (\$1000)
- 2005* George G. Lee Memorial Scholarship (for research related to the role of environmental factors on the epidemiology of cancer, \$1000)