Eila K. Roberts
Curriculum Vitae

University of Michigan
Department of Psychology
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Education

Ph.D. in Biopsychology
University of Michigan, Ann Arbor
Anticipated completion: 2012

M.S. in Resource Ecology Management, 2007
University of Michigan, Ann Arbor
Thesis: “Endocrine Disrupting Chemicals and Conservation of Terrestrial Animals”

B.S. in Biopsychology, 2004
University of Michigan, Ann Arbor
LSA Honors Student (2003)
Honors Thesis: “The effects of prenatal testosterone on the mating behavior of female sheep”

Research Experience

2005-2007; Graduate Student Research Assistant, Advisor Dr. Theresa Lee

In addition to the collection and analysis involved in my master’s thesis project, I managed a multifaceted research project on the effects of prenatal steroid hormones on the behavior of sheep. My responsibilities included long term behavioral observation, regular blood sampling, training and managing over thirty undergraduate students, experiment preparation and execution, as well as liaising with other labs to coordinate animal and space usage.

2004-2005; Lab Manager, Lab of Dr. Theresa Lee

I took part in the project planning and managing of the Lee Lab sheep project. In addition to my managing responsibilities above, I performed administrative tasks for the lab. During this time, I also took part in developing better techniques in data collection and entry.

2004; Field Assistant, Dr. Shannon Bouton

I assisted in the data collection for Dr. Bouton’s doctoral research project. The purpose of the project was to explore the effects of multiple environmental stressors on the growth and

development of cliff swallow nestlings. It included behavioral and physiological measurements allowing me to have observational and hands on experience in the field.

2003-2004; Honors thesis research, Advisor: Dr. Theresa Lee

I tested the hypothesis that the organizational effects of prenatal testosterone on females would masculinize reproductive behavior independently of genitalia.

2002-2003; Undergraduate Research Opportunity Program Student, Advisor: Dr. Theresa Lee

I investigated the influence of prenatal testosterone on aspects of male and female adult behavior including aggression, social dominance, and mating behavior.

2001-2002, Undergraduate Research Opportunity Program Student, Advisor: Dr. Tomasz Baumiller; Co-investigator: Dr. Forest Gahn

I investigated the occurrence of parasitism between two Middle Devonian crinoid species and platyceratid snails.

Publications

Steckler, T.L., **Roberts, E.K.**, Doop, D.D., Lee, T.L., and Padmanabhan, V. Developmental programming in sheep: Administration of testosterone during 60-90 days of pregnancy reduces breeding success and pregnancy outcome. Theriogenology. 2007, 67(3): 459-467.

Roberts, E.K., Padmanabhan, V., Lee, T.M. Differential effects of prenatal testosterone on phenotypic and behavioral masculinization and defeminization of female sheep. Horm. Behav. Submitted.

Abstracts and Presentations

Roberts, E.K., Michel, J.E., Cooper, A.P., and Lee, T.M. “Prenatal steroid hormones alter response to brief stressor in juvenile sheep.” Poster presentation at the Society of Behavioral Neuroendocrinology annual conference, Monteray, CA. 2007.

Roberts, E.K., Steckler, T. L., Lee, T. M., and Padmanabhan, V. “Fertility in Sheep After Short-term Exposure to Excess Testosterone Prenatally.” Oral presentation at the Society for the Study or Reproduction annual conference, Omaha, NE. 2006.

Roberts, E.K., Padmanabhan, V. and Lee, T.M. “Effect of Virilizing and Non-Virilizing Exposure to Testosterone on Male-Typical and Female-Typical Mating Behaviors.” Poster presented at the Society of Behavioral Neuroendocrinology annual conference, Pittsburgh, PA. 2006.

Roberts, E.K., Wehri, J.C., Ho, S. and Lee, T.M. “The Development of Inter-gendered Behavior in Adult Sheep.” Oral presentation at the University of Michigan Undergraduate Research Opportunity Program Spring Symposium, Ann Arbor, MI. 2003.

Roberts, E.K., Gahn, F. and Baumiller T.K. “Discovering parasitism in Fossil Crinoids.” Poster presented at the University of Michigan Undergraduate Research Opportunity Program Spring Symposium, Ann Arbor, MI. 2002.