

**MICHELLE D. PINE**

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**Education**

- 1987      **Bachelor of Science**, Animal Science, University of Missouri-Columbia, Honors College.
- 1991      **Doctor of Veterinary Medicine**, University of Missouri-Columbia
- 2002      **Ph.D., Toxicology**. College of Veterinary Medicine, Texas A&M University  
**Dissertation:** A Comparison of Antioxidant Defense Mechanisms of a Virus-transformed Cetacean Renal Epithelial Cell Line to a Continuous Artiodactyl Renal Epithelial Cell Line.  
**Advisor:** Dr. David Busbee.

**Professional Experience and Academic Appointments:**

- 1991-1992      Veterinary Practitioner, Phelps County Veterinary Clinic, Rolla, Missouri
- 1992-1993      Manager/Staff Veterinarian, Central Missouri Humane Society, Columbia, Missouri
- 1993-1994      Staff Veterinarian, Jefferson City Animal Shelter, Jefferson City, Missouri
- 1993-1994      Veterinary Practitioner, Boonville Veterinary Clinic, Boonville, Missouri
- 1994-1998      Veterinary Medical Officer (GS12), USDA, Laurel, Mississippi
- 1998-2002      Veterinary Clinical Assistant (Graduate Student), Veterinary Anatomy & Public Health, Texas A&M University
- 2003-2004      Postdoctoral Research Fellow, Veterinary Integrative Biosciences, Texas A&M University (Dr. W. Les Dees)
- 2004-2006      Research Assistant Professor, Veterinary Integrative Biosciences, Texas A&M University
- 2006-Present      Clinical Assistant Professor, Veterinary Integrative Biosciences, Texas A&M University
- 2006-Present      Member, Faculty of Neuroscience, Texas A&M University
- 2007-Present      Member, Interdisciplinary Faculty of Toxicology, Texas A&M University

**Teaching Experience**

- 1998-2007      **Biomedical Anatomy 305** (Spring & Fall; assisted in 1 or 2 laboratory sections), Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University
- 2000 (Fall)      **Gross Anatomy I VIBS 910**, (assisted in laboratory) Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University

- 2004 (Fall) **Neuroendocrine Anatomy 603**, Adrenal and Thyroid lectures, Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University
- 2007 (Spring) **Gross Anatomy II VIBS 912**, (assisted in laboratory) Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University
- 2007 (Fall) **Biomedical Neuroendocrinology and Endocrine Disorders VIBS 604/489**, Adrenal lecture, Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University
- 2008 (Spring) **Biomedical Anatomy 305** (laboratory coordinator for all sections), Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University
- 2008 (Fall) **Biomedical Anatomy 305** (course coordinator), Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University

### **Professional Development**

- 2006 (Fall) **Writing Effective Research Grant Proposals**, TAMU Office of Proposal Development
- 2007 (Fall) **Craft of Grant Writing**, TAMU Office of Proposal Development
- 2008 (Spring) **Lecturing Well Workshop**, TAMU Center for Teaching Excellence
- 2008 (Spring) **Syllabus Workshop**, TAMU Center for Teaching Excellence

### **Service**

- 2006 (Fall) **Faculty Interviewer**, selection of Veterinary Class of 2011
- 2007 (Fall) **Faculty Interviewer**, selection of Veterinary Class of 2012
- 2008 **Member**, Departmental Teaching Committee for Undergraduate and Professional Education
- 2008 **Member**, Internal Faculty Evaluation Committee for Dr. Anton Hoffman

### **Students Mentored**

- 2007-2008 **Undergraduate:** Marco Chavez, accepted into Undergraduate Research Scholars Program, Texas A&M University. Title of Proposal: Endocrine Effects of the Pyrethroid Metabolites 3-Phenoxybenzoic Acid and 3-Phenoxybenzyl Alcohol.  
**Award:** First Place Session Winner at Texas A&M University Student Research Week 3/28/08.
- 2008 (Fall) **Undergraduate:** Roy Wilmeth, BIMS 485 directed studies.

### **Honors And Awards**

- 1983 **Scholarships:** Cramer Mansur Science, Donaldson Company, Optimist Club, Jesse Lyn Memorial Christian Leadership, Elizabeth H. Schell
- 1998 **Certificate of Merit**, United States Department of Agriculture

1998-1999 **Regents Graduate Fellow**, Texas A&M University, 1998 -1999.  
2007 **Best Reproductive Toxicology Publication of the Year Award 2006**  
**M. D. Pine**, J. K. Hiney, R. K. Dearth, G. R. Bratton, and W. L. Dees. IGF-1  
Administration to Prepubertal Female Rats Can Overcome Delayed  
Puberty Caused by Maternal Pb Exposure. *Reprod. Toxicol.* **21**:104-109.  
Awarded by The European Teratology Society.

### **Professional Societies**

2008-Present **American Association of Veterinary Anatomists**  
2007-Present **Society of Toxicology**  
2006-Present **Gulf Coast Society of Toxicology**  
2006-Present **Society for Neuroscience**  
2001-Present **Gamma Sigma Delta**  
2001 **Phi Kappa Phi Honor Society**  
1998-Present **International Association of Aquatic Animal Medicine**  
1991-Present **Deputy State Veterinarian (Missouri)**  
**Missouri Veterinary Licensee** (current status inactive)  
**Veterinary Accreditation**, USDA, APHIS

### **Abstracts**

**Michelle D. Pine** and Jill K. Hiney. Esfenvalerate acts at the hypothalamus to suppress the afternoon rise of luteinizing hormone in prepubertal female rats. 47<sup>th</sup> annual meeting of the Society of Toxicology, Seattle, WA. March, 2008.

Marco Chavez and **Michelle D. Pine**. Endocrine effects of the pyrethroid metabolites 3-phenoxybenzoic acid and 3-phenoxybenzyl alcohol. Student Research Week, Texas A&M University. March 28, 2008. **First place session winner.**

**Michelle D. Pine**. The type II pyrethroid pesticide esfenvalerate lowers serum estradiol and delays the onset of puberty. 46<sup>th</sup> annual meeting of the Society of Toxicology, Charlotte, NC. March, 2007.

V.K. Srivastava, J.K. Hiney, **M.D. Pine**, and W. L. Dees. Effects of alcohol on intraovarian systems in prepubertal female rhesus monkeys. 29<sup>th</sup> annual meeting of the Research Society on Alcoholism, Baltimore, MD. June, 2006.

Boyeon Lee, Jill K. Hiney, **Michelle D. Pine**, Vinod K Srivastava, and W.L. Dees. Manganese induces hypothalamic LHRH release by directly activating guanylyl cyclase. 88<sup>th</sup> annual meeting of the Endocrine Society, Boston, MA. June, 2006.

**M. Pine**, J.K. Hiney, B. Lee, and W. L. Dees. Alcohol and puberty-related hormones: a protective effect of manganese. 28<sup>th</sup> annual meeting of the Research Society on Alcoholism, Santa Barbara, CA. June, 2005.

**Michelle Pine**, Boyeon Lee, Robert Dearth, Jill K Hiney, and W Les Dees. Manganese stimulates luteinizing hormone release in prepubertal female rats via a hypothalamic action. 87<sup>th</sup> annual meeting of The Endocrine Society, San Diego, CA, June, 2005.

W. Les Dees, Robert K. Dearth, Jill K. Hiney, Valeria Rettori, and **Michelle Pine**. The involvement of manganese in the secretion of luteinizing hormone. 85<sup>th</sup> annual meeting of The Endocrine Society, Philadelphia, PA. June, 2003.

## **Publications**

Hiney JK, Srivastava VK, **Pine MD**, Dees WL. **2008**. Insulin-like growth factor-1 activates KiSS-1 gene expression in the brain of the prepubertal female rat. *Endocrinology*. 2008 Aug 14. [Epub ahead of print] PMID: 18703622 [PubMed - as supplied by publisher].

W. Les Dees, Jill K. Hiney, Vinod K. Srivastava and **Michelle D. Pine**. **2008**. Differential Effects of Manganese and Alcohol on Mammalian Pubertal Development. *Physiological Mini-Reviews* **4**: 1-8.

**M. D. Pine**, J.K. Hiney, B. Lee, W.L. Dees. **2008**. The Pyrethroid Pesticide Esfenvalerate Suppresses the Afternoon Rise of Luteinizing Hormone and Delays Puberty in Female Rats. *Environ. Health Perspect*: **116**(9):1243-7.

**Michelle D. Pine**, Kimberly Greer, and David Busbee. **2007**. Comparison of Reactive Oxygen Scavenging Systems between a Cetacean (DKN1) and a Porcine (LLC-PK1) Renal Epithelial Cell Line. *Comp. Biochem. Physiol.A*. **147**: 550-555.

Vinod K. Srivastava, Gregory A. Dissen, Sergio R. Ojeda, Jill K. Hiney, **Michelle D. Pine**, and W. Les Dees. **2007**. Effects of Alcohol on Intraovarian Nitric Oxide Synthase and Steroidogenic Acute Regulatory Protein in the Prepubertal Female Rhesus Monkey. *J. Stud. Alcohol Drugs* **68**: 182-191.

Boyeon Lee, Jill K. Hiney, **Michelle D. Pine**, Vinod K. Srivastava and W. Les Dees. **2007**. Manganese Stimulates Luteinizing Hormone Releasing Hormone Secretion in Prepubertal female rats: Hypothalamic Site and Mechanism of Action. *J. Physiol*. **578**: 765-772.

Boyeon Lee, **Michelle Pine**, Larry Johnson, Valeria Rettori, Jill K. Hiney, and W. Les Dees. **2006**. Manganese Acts Centrally to Activate Reproductive Hormone Secretion and Pubertal Development in Male Rats. *Reprod. Toxicol*. **22**: 580-585.

**M. D. Pine**, J. K. Hiney, R. K. Dearth, G. R. Bratton, and W. L. Dees. **2006**. IGF-1 Administration to Prepubertal Female Rats Can Overcome Delayed Puberty Caused by Maternal Pb Exposure. *Reprod. Toxicol*. **21**:104-109.

**\*\*Named the 2006 Best Reproductive Toxicology Publication of the Year by the European Society of Teratology.**

K. A. Greer, **M. Pine**, D. Busbee. **2005**. An In Vitro Model of Excess Intracellular Reactive Oxygen Species. *Age* **27**: 97-105.

**M. Pine**, B. Lee, R. Dearth, J. Hiney, and W. L. Dees. **2005**. Manganese Acts Centrally to Stimulate Luteinizing Hormone Secretion: a Potential Influence on Female Pubertal Development. *Toxicol. Sci.* **85**: 880-885.

**M. Pine**, M. Schroeder, K. Greer, R. Hokanson, and D. Busbee. **2004**. Generation and Partial Characterization of a Transformed Cetacean Cell Line. *Aquatic Toxicol.* **67**:195-202.

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