

December 2014

## CURRICULUM VITAE

**Catherine “Caty” Tylan**

1100 Sarasota Drive  
Lafayette, IN 47909  
724-494-9647

### Education:

<u>Date</u>	<u>Institution</u>	<u>Degree</u>
2011-2015 (anticipated)	Purdue University School of Veterinary Medicine. West Lafayette, IN 3.6 GPA. Cum laude.	DVM
2004-2009	Drexel University College of Arts and Sciences. Philadelphia, PA Major: Biological Sciences. Minor: Anthropology. 3.6 GPA. Cum laude.	B.S.

### Professional Experience:

**Research Assistant.** Veterinary Scholars Summer Research Program, Purdue University. West Lafayette, IN. May 2013 – August 2013

- Characterized novel method of euthanasia in ducks
- Compared intracranial alcohol injection to other common methods of euthanasia in ducks
- Assisted with avian necropsies and performed ELISA assays

**Research Assistant.** Psychology Dept., Purdue University. West Lafayette, IN. July 2012 – August 2012

- Characterized effects of artificial sugar on rat blood sugar and hormones
- Performed oral gavage and ovariectomy surgeries on rats
- Helped with day to day care of rats

**Research Assistant.** Forestry Dept., Purdue University. West Lafayette, IN. May 2012 – June 2012

- Characterized effects of sex hormones commonly found in ground water on development of *Oryzias latipes* fish
- Performed RNA extraction, cDNA production, and RT-PCR with fish embryos
- Gathered fertilized eggs and assisted in care of *Oryzias latipes* fish

**Laboratory Technician, Level VIII.** Bacteriology Dept., Animal Disease Diagnostic Laboratory, Purdue University. West Lafayette, IN. July 2009 – August 2011

- Identified and isolated microbiological specimens from diagnostic samples, with an emphasis on *Mycoplasma* species
- Managed various research projects in conjunction with other laboratories
- Laboratory Safety Manager for the Bacteriology Department

**Research Assistant.** Biology Dept., Drexel University. Philadelphia, PA. June 2008 – June 2009

- Organized and analyzed bushmeat data for Bioko Island preservation research

**Teaching Assistant.** Biology Dept., Drexel University. Philadelphia, PA. January 2009 – June 2009

- Taught laboratories for 100 level biology classes
- Proctored and graded exams and laboratory assignments

**Clinical Studies Assistant.** Clinical Studies Dept., ICON Clinical Research. North Wales, PA. November 2007 – March 2008

- Managed paperwork required for start up and maintenance of clinical trials in humans
- Acted as intermediary between sponsors and research sites

**Laboratory Assistant.** Endocrinology Dept., Merck and Co. Inc. West Point, PA. September 2006 – March 2007

- Characterized differences between aged and young rat muscle tissue
- Characterized effects of glucocorticoids on rat muscle tissue
- Performed rat necropsies, Western Blots, and PCR

**Laboratory Assistant.** Oncology Dept., Merck and Co. Inc. West Point, PA. September 2005 – March 2006

- Helped to design immunoprecipitation assay format
- Tested variety of oncological compounds
- Performed Western Blots, ELISA, and other plate assays

**Research Assistant.** Biology Dept., Drexel University. Philadelphia, PA. June 2005 – September 2005

- Caught and tagged turtle specimens at Philadelphia Airport and nearby swamps
- Analyzed data on turtles in relation to dimensions, mutations, and location found

### **Elective Coursework:**

Spring 2012 BMS 81900 Endocrine & Neural Basis of Seasonal Activities of Birds & Mammals in the Wild (1 cr)

Fall 2013 VCS 84500 Small Animal Medicine Laboratory (0.5 cr)  
CPB 81800 Applied Large Animal Toxicology (1 cr)

Spring 2014 BMS 52800 Avian Physiology (2 cr)  
BMS 80600 Clinical Anatomy of Exotic Pets (1 cr)  
VCS 85100 Medicine & Surgery of Nontraditional Pets (2 cr)  
CPB 84000 Use & Care of Lab Animals (1 cr)  
VCS 80500 Small Animal Behavior Therapy (1 cr)  
VCS 84000 Small Ruminant & Llama Medicine (1 cr)

Fall 2015 CPB 88400 Lab Animal Medicine  
VM 89100 Research Project

Spring 2015 VM 89100 Research Project

### **Professional Activities and Associations:**

Student Chapter of Pets for People – 2014-2015

Student Chapter of the American Veterinary Medical Association – 2011-2015  
Student Chapter of the Veterinary Emergency and Critical Care Society – 2011-2014  
Student Chapter of the American Association of Feline Practitioners – 2012-2014  
Student Chapter of the Veterinary Exotic Animal Club – 2011-2014

### **Honors and Awards:**

Zoetis/AVMF Scholarship – Fall 2014  
1<sup>st</sup> Place Group, Senior Seminar Competition, Drexel University – Spring 2009  
William J. Burley Award Recipient – Spring 2009  
Robert C Bird Scholarship – Fall 2004 through Spring 2008  
KTE National Cooperative Education Honor Society – inducted 2006  
Students Tackling Advanced Research (STAR) program, Drexel University – Summer 2005  
Graduated with Distinguished Honors from Drexel University Honors Society – inducted 2004

### **Professional Presentations:**

Comparison of intra-cranial alcohol injection to other common euthanasia methods in ducks.  
Wakenell, P., Tylan, C. and Edward, C. Poster. AVMA Humane Endings Symposium. Chicago, IL.  
November 04, 2014.

Cleaning the Plate: Intersection of Rodent Appetite, Husbandry, and Economics. Tylan, C, Spears  
S, and Hughes L. Poster. 2014 NCAB Seminar. Ellicott City, MD. August 27-28, 2014.

Comparison of intracranial alcohol injection to other common euthanasia methods in ducks. Tylan,  
C and Wakenell, P. Poster. Purdue University 27<sup>th</sup> Annual Phi Zeta Research Day, 52<sup>nd</sup> Anniversary  
of the Omicron Chapter of Phi Zeta. West Lafayette, IN. April 14, 2014. 1<sup>st</sup> Place DVM Student  
Research.

Comparison of intra-cranial alcohol injection to other common euthanasia methods in ducks. Tylan,  
C and Wakenell, P. NE-1034 Multistate Research Group Meeting. Raleigh, NC. October 13, 2013.

Comparison of intracranial alcohol injection to other common euthanasia methods in Pekin ducks.  
Tylan, C and Wakenell, P. Poster. Meriel NIH Veterinary Scholars Symposium. East Lansing, MI.  
August 03, 2013.

Comparison of intracranial alcohol injection to other common euthanasia methods in ducks. Tylan,  
C and Wakenell, P. Maple Leaf Farms 8th Annual Duck Research Workshop. Warsaw, IN. July 10,  
2013.

### **Licensure and Accreditation:**

Previously certified in Good Laboratory Practice  
Previously certified in Good Clinical Practice