

Curriculum Vitae

Sathya K. Chinnadurai, DVM, MS

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EDUCATION

University of Missouri-Columbia, Department of Fisheries and Wildlife Sciences, Columbia, MO

- Master of Science -Wildlife Sciences, 2006
 - Thesis topic: Validation of fecal glucocorticoid assays for measurement of stress in free-ranging South African wildlife and acute stress in laboratory rabbits
 - Courses in conservation biology, wildlife disease ecology, wildlife behavior, statistics and genetics

University of Missouri-Columbia, College of Veterinary Medicine, Columbia, MO

- Doctor of Veterinary Medicine, 2005
 - *Magna Cum Laude*, Class rank 3/61, Cumulative GPA 3.867

Duke University, Durham, NC

- Bachelor of Science, 2000 - Majors - Biology, Environmental Science and Policy; Minor: Philosophy

VETERINARY CLINICAL EXPERIENCE

Internship in Veterinary Anesthesia, University of Missouri - June 2005-July 2006

- One-year training program in large and small animal anesthesia, including comparative pharmacology and physiology.
- Clinical rotations through Small Animal Medicine, Emergency and Critical Care and Small Animal Surgery, and a six week out-rotation at the Kansas City Zoo.
- Training of preclinical students in anesthesia during live animal anesthesia/surgery laboratories.
- Instruction of clinical students taking small animal and equine anesthesia rotations.

Kansas City Zoo - Clinical Out-rotation - July-August 2005

- Assisted in diagnosis and treatment of collection animals in a large urban zoo.
- Studied preventative medicine, quarantine protocols and animal husbandry.
- Provided anesthesia for lions and elephants as part of a team from the UMC-CVM.

University of Missouri Raptor Rehabilitation Project

Clinical Advisor - May 2005 – present; Secretary -2004-2005; Student Volunteer - 2002-2005

- Evaluation and medical care of wild and captive birds of prey.
- Instruct students on veterinary care and provide guidance on management of the organization.

Student Externships

- **Wildlife Center of Virginia**, Waynesboro, VA - *Extern - December 2004 - January 2005*
- **San Diego Zoo** – Pathology Department - Extern - August - September 2004
- **University of Tennessee - Avian and Exotics Department, Knoxville Zoo** - *Extern - February 2004*

RESEARCH EXPERIENCE

Research Interests –

Anesthesia and analgesia in non-domestic species
Role of stress and pain management in the well-being of captive wild animals and free-ranging populations.

Wildlife Physiology Laboratory/Dalton Cardiovascular Research Center, Columbia, MO - present

- Collaborative research on cardiovascular and hormonal effects of stress on lab rabbits and wildlife.
 - Performed stress experiments to monitor blood and fecal hormone levels, using radio-immunoassays.
 - Assisted with projects on neural and cardiovascular effects of hemorrhage and stress.
- Analyzed changes in fecal stress hormone levels in free-ranging North American and South African mammals.
- Traveled to field sites in South Africa to coordinate sample collection for on-going projects.
- Performed laboratory analysis for collaborative stress research projects on elk and elephants.

AWARDS

Atkinson Memorial Intern Proficiency Award - 2006

Pfizer Small Animal Proficiency Award - 2005

Rolf Memorial Award - 2005 - For ethical and professional integrity

Gary Weddle Wildlife and Exotic Animal Proficiency Award - 2005

Aronson Veterinary Radiology Award - 2005

Merck Veterinary Scholar Award - 2005

Who's Who in American Colleges and Universities - 2005

Phi Zeta Veterinary Honor Society - 2004 -For being in top ten percent of the junior class

Zoo Club Scholarship – 2004 -For leadership and participation in externships

Cecil Elder Veterinary Pathology Award - 2003

Brown Fellowship for International Agriculture – 2003 -Funding to study stress in South African mammals

College of Veterinary Medicine Minority Scholarship – 2001, 2002, 2003, 2004

Veterinary Medicine Memorial Scholarship - 2002 for highest class rank after the first year

William J. Griffith Service Award - 2000 - for service to the Duke and Durham Community