

Taya M. Marquardt Ezell, DVM, MS, DACVIM (Oncology)

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EDUCATION AND TRAINING

2013-2017	Auburn University – Veterinary Biomedical Sciences Auburn AL Master of Science
2013-2016	Auburn University - College of Veterinary Medicine Auburn AL Residency (ACVIM Oncology)
2009-2010	Mississippi State University - College of Veterinary Medicine Mississippi State MS Oncology Internship
2008-2009	Carolina Veterinary Specialists Charlotte NC Rotating Small Animal Internship
2004-2008	Washington State University - College of Veterinary Medicine Pullman WA Doctor of Veterinary Medicine
1996-2001	University of Washington Seattle WA Bachelor of Science, Cell and Molecular Biology (Departmental Honors) Bachelor of Science, Applied and Computational Mathematical Sciences

RELEVANT EMPLOYMENT

2016-current	Assistant Clinical Professor, Oncology Department of Clinical Sciences College of Veterinary Medicine Mississippi State University This is a 75% clinical appointment. Duties include supervision of house officers and 4 th year veterinary students, didactic classroom lectures, serving as course director for a 2-week oncology elective, coordination and recruitment of radiation therapy patients, consults for referring veterinarians, and ongoing development and refinement of the hospital's clinical oncology service.
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- 2011-2013 **Banfield Pet Hospital**
Brandon FL
Duties included routine preventative care, work-up of ill patients, stabilization/triage of emergencies, referral to specialists when appropriate, basic surgery (spays, neuters, mass removals), and dental cleanings/extractions. I also managed oral chemotherapy treatment for patients at our practice and other surrounding general practices in cases where the owners had declined referral to an oncologist.
- 2010-2011 **Clinical Instructor, Oncology**
Department of Clinical Sciences
College of Veterinary Medicine
Mississippi State University
I had primary responsibility for the oncology cases that were seen by the Internal Medicine service, as well as teaching duties on the clinic floor and in the classroom. Additionally, I recruited cases for research studies, coordinated and managed the hospital's radiation therapy cases, served as advisor for senior student presentations and papers, and handled oncology consult requests from referring veterinarians.

PUBLICATIONS

Marquardt TM, Lindley SES, Smith AN, Cannon CM, Rodriguez CO, Thamm DH, Childress MO, Northrup NC. *Evaluation of mitoxantrone in a first line multi-drug chemotherapy protocol for canine lymphoma: 44 dogs (2000-2015)*. J Am Vet Med Assoc, 254(2), 2019.

Shutt L, **Marquardt T**, Cline K, Taylor A. *What is your neurologic diagnosis? Traumatic Vertebral Subluxation and Ischemic Myelopathy in a Cat*. J Am Vet Med Assoc, 251(4), 2017.

Marquardt T. *Communication and Management Strategies for Difficult Clients*. Manuscript in fulfillment of DVM requirements. Washington State University, 2007.

Philipp-Staheli J, **Marquardt T**, Thouless M, Bruce A, Grant R, Tsai C, Rose T. *Genetic variability of the envelope gene of Type D simian retrovirus-2 (SRV-2) subtypes associated with SAIDS-related retroperitoneal fibromatosis in different macaque species*. Virol J, 3(11), 2006.

PRESENTATIONS AND ABSTRACTS

"Questions from the Masses: Updates in Canine and Feline Oncology." Continuing education seminar hosted by the Animal Emergency and Referral Center of Jackson MS. March 2019

"Chemo conundrums: side effects and monitoring in the oncology patient." Continuing education seminar. Alumni Weekend, Mississippi State University, November 2018

"The many flavors of feline lymphoma." Southern Veterinary Conference, Birmingham AL, August 2018

"Canine mast cell tumors: a new adventure every time." Southern Veterinary Conference, Birmingham AL, August 2018

"P-Glycoprotein expression in canine hemangiosarcoma." Masters degree defense. Auburn University, November 2017

“*Canine lymphoma: Review and recent developments in treatment.*” Continuing education seminar. Alumni Weekend, Mississippi State University, October 2016

“*Clinical approach to a patient with a rapidly growing infra-orbital mass*” Continuing education seminar. Auburn Annual Conference, Auburn University, March 2016

“*Doxorubicin-associated cardiotoxicity in the canine patient*” Resident seminar. Auburn University, August 2015

“*Evaluation of mitoxantrone in CHOP-like therapy for canine lymphoma*” Poster presentation. Phi Zeta Research Day, Auburn University, November 2014

“*Evaluation of mitoxantrone in CHOP-like therapy for canine lymphoma*” Poster presentation. Veterinary Cancer Society, 34th Annual Conference, October 2014

“*P-glycoprotein expression and chemotherapy resistance in canine lymphoma*” Resident seminar. Auburn University, March 2014

“*Canine splenic masses – Is size predictive of malignancy?*” Oral abstract presentation. Veterinary Cancer Society, 30th Annual Conference, November 2010

“*Communication and management strategies for difficult clients.*” Senior seminar. Washington State University College of Veterinary Medicine, November 2007

“*Serological evidence of retroperitoneal fibromatosis associated herpesvirus (RFHV) in macaques.*” Poster presentation. Nonhuman Primate Models for AIDS, 20th Annual Symposium, September 2002

“*Polymorphisms in CD81, the gene encoding the putative cellular receptor for the Hepatitis C virus.*” Poster presentation. American Association for the Advancement of Science, 164th Annual Conference, February 1998

“*Seminar to spotlight student-scientist collaboration: a panel discussion.*” American Association for the Advancement of Science, 163rd Annual Conference, February 1997

FUNDING/GRANT APPLICATIONS

Successful

Eldredge S, Lunsford K, Bulla C, Marquardt T, Badial P. *Platelet activation in canine osteosarcoma and canine mammary carcinoma.* Mississippi State University Office of Research and Graduate Studies House Officer Clinical Research Program. \$2000 (2017)

Marquardt T, Cattley R, Sandey M, Smith A, Lindley S. *P-Glycoprotein expression in canine hemangiosarcoma.* Auburn University Department of Clinical Sciences House Officer Research Program. \$5000 (2015)

Unsuccessful

Smith A, Marquardt T, Bird R, Schleis S, Spangler E. *P-Glycoprotein expression and activity in canine lymphoma: effects of immunophenotype and therapy.* Animal Cancer Foundation. \$27,019 (2015)

RESEARCH

Auburn University Department of Clinical Sciences

Collaborators: A Smith, S Lindley, M Sandey, R Cattley

Title: Masters Project

Project: P-Glycoprotein expression in canine hemangiosarcoma

Dates: 2013-2017

This project used immunohistochemistry and quantitative PCR to assess P-glycoprotein in dogs with hemangiosarcoma. I had primary responsibility for project structure, literature search, grant proposal submission and securing of funding, and project implementation. This project involved processing and analysis of banked tissue samples as well as a defense presentation in fulfillment of degree requirements.

University of Washington Primate Research Center and Department of Pathobiology

Collaborators: T Rose, ME Thouless, AG Bruce, J Ryan

Title: Research Scientist

Project: Inquiry into SRV-2, RFHV, and RRV in colony macaques

Dates: 2001-2004

I helped develop new screening assays for specific viral infections in the colony macaques and aided with collection of biological samples. I also sequenced multiple viral genes for phylogenetic analysis. Other responsibilities included maintenance of cell cultures, revision of data and sample tracking systems, hiring and training personnel, and inventory management.

University of Washington Genome Center

Collaborators: C Ton, D Zlatanova

Title: Research Assistant

Project: SNP analysis of TAPA-1

Dates: 1999-2001.

I headed a project to screen a 400-member human panel for polymorphism in the TAPA-1 gene. I also created and modified experimental designs, coordinated organization of data, and assisted with background research.

University of Washington Department of Molecular Biology

Collaborators: X Liang, E Nester

Title: Research Intern

Dates: June-August 1998

I performed genetic analysis of *Agrobacterium tumefaciens* genes via PCR amplification, cloning, Western blots, and sequencing.

Fred Hutchinson Cancer Research Center, Basic Sciences

Collaborator: C Russell

Title: Volunteer Research Assistant

Dates: Summer, 1996 and 1997

I analyzed several *Paramecium* genes via cloning and sequencing of targets. I also performed sequence analysis on existing data using the Sequencher program.

TEACHING AND MENTORSHIP

Mississippi State University College of Veterinary Medicine

Clinical Instruction

During on-clinics weeks, supervision of and ultimate responsibility for all oncology cases admitted through the Internal Medicine/Oncology service, seen by a rotating team of five Internal Medicine residents, one Oncology Intern, and eight to eleven 4th year veterinary students.

Residents

Member of residency committee for Ashley Coll

Oncology Intern

I provide primary mentorship for specialty (2nd year) Oncology Interns. In addition to supervision of clinical cases, this includes development and participation in a weekly journal/book club, review of and assistance with VIRMP residency applications, partial or complete oversight for a research project or retrospective study ideally leading to presentation and/or publication, career guidance, and development of networking opportunities within the oncology field.

2019-2020: Rebecca Bernstein (applying for residency)

2018-2019: Tien Tien (now in residency)

2017-2018: Jessica Chin (now in residency)

2016-2017: Stephanie Eldredge

Individual Student Teaching and Mentorship

2019

Sadie Wood (senior) - Clinicopathologic Conference: Epitheliotropic T Cell Lymphoma

Cody Faulkner (senior) - Clinicopathologic Conference: Hemangiosarcoma of the bone

Shelly Knight (senior) - Clinicopathologic Conference: Renal Carcinoma

Brandon Dailey (senior) - Clinicopathologic Conference: Canine Lymphoma

Jeremy Long (senior) - Clinicopathologic Conference: Canine Msat Cell Tumor

Hannah Urig (senior) - Clinicopathologic Conference: Canine Osteosarcoma

Jessica Menig (freshman) - Faculty mentor

Anna Taylor (freshman) - Faculty mentor

2018

Cortney Group (senior) - Clinicopathologic Conference: Laryngeal Rhabdomyoma

Elizabeth Czapor (freshman) - Faculty mentor

Khari Nickoli (freshman) - Faculty mentor

Lauren Osman (freshman) - Faculty mentor

Teresa Chapman (sophomore) - Faculty mentor

Shaira Rivera Martinez (sophomore) - Faculty mentor

Jordan Ziegler (sophomore) - Faculty mentor

Cari Foley (senior) - Clinicopathologic Conference: Feline Gastrointestinal Lymphoma [co-advisor]

2017

Stephen Millar (senior) - Advanced Clinical Rotation in Oncology

Carley Tucker (senior) - Advanced Clinical Rotation in Oncology

Holly Crain (senior) - Clinicopathologic Conference: Lymphoma

Teresa Chapman (freshman) - Faculty mentor

Shaira Rivera Martinez (freshman) - Faculty mentor

Jordan Ziegler (freshman) - Faculty mentor

Sammy Lochamy (veterinary technology) - Clinical experience shadowing

2016

Lauren Rhue (junior) - Directed Individual Study in Oncology

Haiden Rogers (junior) - Directed Individual Study in Oncology

Lectures

2019

Small Animal Medicine and Surgery - CVM 5802

*5 new lectures developed

**Sarcomas I* - 1 hour

**Sarcomas II* - 1 hour

**Carcinomas I* - 1 hour

**Carcinomas II* - 1 hour

**Skin Tumors* - 1 hour

Therapeutic Modalities - 1 hour

Round Cell Tumors I - 1 hour

Round Cell Tumors II - 1 hour

Gastrointestinal Tumors - 1 hour

Case Presentation - 1 hour

Principles of Oncology - 1 hour

Cancer Staging and Grading - 1 hour

Small Animal Internal Medicine - CVM 5380

Lymphoma (Canine and Feline) - 16 hours

Osteosarcoma - 1 hour

Liver masses - 1 hour

Radiation therapy - 1 hour

Mast cell tumors - 1 hour

Journal Club: Reading Literature Critically - 1 hour

Pharmacology II - CVM 5553

Chemotherapy Part I (general concepts) - 1 hour

Chemotherapy Part II (specific drugs) - 1 hour

Small Animal Clinical Gastroenterology - CVM 5882/6882

Canine and Feline Oral Tumors- 1.5 hours

Gastrointestinal Lymphoma - 1 hour

The Feline Patient - CVM 5814

Feline Lymphoma and Leukemia - 2 hours

Feline Mammary Carcinoma - 1 hour

Injection Site Sarcoma - 1 hour

Feline Oncology Potpourri - 2 hours

Practical Small Animal Oncology - CVM 5802

Course director

*5 new lectures developed

**USP800 and Chemotherapy Safety* - 1 hour

**Gastrointestinal and Perianal Tumors*- 1 hour

**Canine and Feline Mammary Tumors* - 1 hour

**Mast Cell Tumors* - 2 hours

**Paraneoplastic Syndromes* - 1 hour [lecture re-written from previous year]
Cancer Biology - 1.5 hours
Histiocytic Disease - 1 hour
Hospice, Euthanasia, and Grief - 1.5 hours
Oral Tumors - 1.5 hours
Common Terminology - 1 hour
Canine Lymphoma - 2 hours
Feline Lymphoma - 1.5 hours
Leukemia - 0.5 hour
Introduction to Radiation - 1 hour
Introduction to Chemotherapy, parts I and II - 2.5 hours
Multiple Myeloma/Plasma Cell Tumors - 1 hour
Injection Site Sarcomas - 1 hour

2018

Practical Small Animal Oncology - CVM 5802

Course director

*Five new lectures developed

**Cancer Biology* - 1.5 hours
**Paraneoplastic Syndromes* - 1 hour
**Nasal Tumors* - 1 hour
**Histiocytic Disease* - 1 hour
**Hospice, Euthanasia, and Grief* - 1.5 hours
Oral Tumors - 1.5 hours
Common Terminology - 1 hour
Canine Lymphoma - 2 hours
Feline Lymphoma - 1.5 hours
Leukemia - 0.5 hour
Introduction to Radiation - 1 hour
Introduction to Chemotherapy, parts I and II - 2.5 hours
Multiple Myeloma/Plasma Cell Tumors - 1 hour
Injection Site Sarcomas - 1 hour
Cytology - 1.5 hours

Small Animal Medicine and Surgery - CVM 5802

*Five new lectures developed

**Therapeutic Modalities* - 1 hour
**Round Cell Tumors I* - 1 hour
**Round Cell Tumors II* - 1 hour
**Gastrointestinal Tumors* - 1 hour
**Case Presentation* - 1 hour
Principles of Oncology - 1 hour
Cancer Staging and Grading - 1 hour

Small Animal Internal Medicine - CVM 5380

Heart Base Masses - 1 hour
Lymphoma (Canine and Feline) - 12 hours
Canine Colorectal Disease - 1 hour
Anal Gland Adenocarcinoma - 1 hour
Mammary Carcinoma (Canine and Feline) - 1 hour

Grief Management and Euthanasia - 1 hour
Hemangiosarcoma - 1 hour
Radiation Therapy - 1 hour
Feline Injection Site Sarcoma - 1 hour
Journal Club: Reading Literature Critically - 1 hour
Transitional Cell Carcinoma - 1 hour
Mast Cell Tumors - 0.5 hrs

Special Topic: Vet Clinical Pharmacology - CVM 5990

*Two new lectures developed
**Chemotherapy Part I (general concepts)* - 1 hour
**Chemotherapy Part II (specific drugs)* - 1 hour

Pharmacology II - CVM 5553

*Two new lectures developed
**Chemotherapy Part I (general concepts)* - 1 hour
**Chemotherapy Part II (specific drugs)* - 1 hour

Small Animal Clinical Gastroenterology - CVM 5882/6882

*Two new lectures developed
**Canine and Feline Oral Tumors*- 1.5 hours
**Gastrointestinal Lymphoma* - 1 hour

The Feline Patient - CVM 5814

Feline Lymphoma and Leukemia - 2 hours
Feline Mammary Carcinoma - 1 hour
Injection Site Sarcoma - 1 hour
Feline Oncology Potpourri - 2 hours

2017

Practical Small Animal Oncology - CVM 5802 - Spring and Fall

Course director for Fall 2017
*Three new lectures developed
**Common Terminology* - 1 hour
Canine and Feline Lymphoma and Leukemia - 6 hours
Introduction to Radiation - 2 hours
Introduction to Chemotherapy, parts I and II - 5 hours
A Practical Approach to Unfamiliar Tumors - 1 hour
**Multiple Myeloma/Plasma Cell Tumors* - 1.5 hours
Injection Site Sarcomas - 1 hour
**Cytology* - 4 hours

Small Animal Internal Medicine - CVM 5380

Grief Management and Euthanasia - 1 hour
Grading and Staging - 1 hour
Lymphoma (Canine and Feline) - 13 hours
Mammary Carcinoma - 3 hours
Oncology Emergencies - 1 hour
Transitional Cell Carcinoma - 1 hour

Injection Site Sarcoma - 1 hour
Transitional Cell Carcinoma - 2 hours
Journal Club: Reading Literature Critically - 1 hour
Hemangiosarcoma - 1 hour

The Feline Patient - CVM 5814

*Four new lectures developed
**Feline Lymphoma and Leukemia* - 2 hours
**Feline Mammary Carcinoma* - 1 hour
**Injection Site Sarcoma* - 1 hour
**Feline Oncology Potpourri* - 2 hours

2016

Small Animal Internal Medicine - CVM 5380

Grading and Staging - 4 hours
Lymphoma: a Case Presentation - 4 hours

2011

Practical Clinical Oncology - CVM 5802

Lymphoma - 1 hour
Mast Cell Tumors - 1 hours
Radiation Therapy - 1 hour
Transitional Cell Carcinoma - 1 hours
Hemangiosarcoma - 1 hour
Paraneoplastic Syndromes - 1 hour
Introduction to Chemotherapy, parts I and II - 2 hours
A Practical Approach to Unfamiliar Tumors - 1 hour
Chemotherapy in General Practice - 1 hour

Small Animal Critical Care Medicine - CVM 5310

Oncology Emergencies and Paraneoplastic Syndromes - 5 hours

Small Animal Internal Medicine - CVM 5380

Introduction to Veterinary Oncology - 3 hours
Grading and Staging - 3 hours
Lymphoma: a Case Presentation - 3 hours
Mast Cell Tumors - 3 hours

2010

Practical Clinical Oncology - CVM 5802

Lymphoma - 2 hours
Mast Cell Tumors - 2 hours
Radiation Therapy - 1 hour
Transitional Cell Carcinoma - 1 hour
Hemangiosarcoma - 1 hour
Paraneoplastic Syndromes - 1 hour
Introduction to Chemotherapy, parts I and II - 2 hours

Small Animal Medicine and Surgery - CVM 5185

The Physical Exam - 1 hour

Introduction to Oncology – 1 hour

Small Animal Diseases and Management (Technician Course) - CVM 3012

Introduction to Oncology – 1 hour

Small Animal Critical Care Medicine - CVM 5310

Oncology Emergencies and Paraneoplastic Syndromes – 10 hours

Small Animal Internal Medicine - CVM 5380

Introduction to Veterinary Oncology – 6 hours

Grading and Staging – 6 hours

Lymphoma: a Case Presentation – 6 hours

Mast Cell Tumors – 6 hours

2009

Practical Clinical Oncology - CVM 5802

Lymphoma – 1 hour

Mast Cell Tumors - 1 hour

Small Animal Critical Care Medicine - CVM 5310

Oncology Emergencies and Paraneoplastic Syndromes – 5 hours

Small Animal Internal Medicine - CVM 5380

Introduction to Veterinary Oncology – 3 hours

Grading and Staging – 3 hours

Lymphoma: a Case Presentation – 1 hour

Mast Cell Tumors – 3 hours

A Systematic Approach to Anemia – 1 hour

Auburn University

Oncology - VMED 5370

Mast Cell Tumors – 3 hours – Spring 2014, Spring 2015, Spring 2016

University of Washington

Science Outreach: the High School Human Genome Project - CHEM 197 and 297

Introduction to the High School Human Genome Project – 6 hours – Spring 1998, Fall 1998, Winter 1999, Spring 1999, Fall 1999, Winter 2000

Ethics of Genetic Testing – 6 hours – Spring 1998, Fall 1998, Winter 1999, Spring 1999, Fall 1999, Winter 2000

DNA Sequencing – 18 hours – Spring 1998, Fall 1998, Winter 1999, Spring 1999, Fall 1999, Winter 2000.

COMMUNITY OUTREACH AND SERVICE

2019 – Starkville Academy – two 1 hour presentations (Cancer Biology) delivered to the regular and honors high school biology classes.

2017 – Tupelo Pet Loss Support Group – 2 hour presentation on MSU CVM resources, coping with a pet's illness and/or loss, veterinary hospice care, decisions on treatment versus palliative care, and euthanasia.

ADDITIONAL RELEVANT EXPERIENCE AND PROFESSIONAL DEVELOPMENT

2019	RECOVER Initiative: CPR Basic Life Support certified
2006-2007	Veterinary Business Management Association Washington State University, Pullman, WA Position: Certificate program graduate Skills obtained: training in business management, personal and business finance, legal issues, and personnel management.
2004-2007	Pet Loss Hotline Washington State University, Pullman, WA Position: Elective participant (2 years) and hotline coordinator (1 year) Skills obtained: Grief counseling and assisting clients with decisions related to end of life care for their pets, as well as how to train others to help clients in these situations.

MEMBERSHIPS AND AFFILIATIONS

2018-current	American College of Veterinary Internal Medicine
2010-current	Phi Zeta (Veterinary Honor Society)
2009-current	Veterinary Cancer Society
2008-current	American Veterinary Medical Association
2010	Mississippi State Veterinary Medical Association
2008, 2009	North Carolina State Veterinary Medical Association
2008	Washington State Veterinary Medical Association
2004-2008	American Veterinary Society of Animal Behavior WSU Student Chapter President: 2005-2007
2006, 2007	Veterinary Business Management Association, certification program graduate

CONTINUING EDUCATION

Oct 2019	39 th Annual Conference of the Veterinary Cancer Society
June 2019	Annual Forum of the American College of Veterinary Internal Medicine
Oct 2018	38 th Annual Conference of the Veterinary Cancer Society
Oct 2017	37 th Annual Conference of the Veterinary Cancer Society
Oct 2016	36 th Annual Conference of the Veterinary Cancer Society
Oct 2015	35 th Annual Conference of the Veterinary Cancer Society
June 2015	Annual Forum of the American College of Veterinary Internal Medicine
Oct 2014	34 th Annual Conference of the Veterinary Cancer Society
Oct 2013	33 rd Annual Conference of the Veterinary Cancer Society
June 2013	Annual Forum of the American College of Veterinary Internal Medicine
Oct 2012	32 nd Annual Conference of the Veterinary Cancer Society
Oct 2010	30 th Annual Conference of the Veterinary Cancer Society
Nov 2009	29 th Annual Conference of the Veterinary Cancer Society
Nov 2008	28 th Annual Conference of the Veterinary Cancer Society
Sept 2002	20 th Annual Symposium on Nonhuman Primate Models for AIDS
Feb 1998	164 th Annual Conference of the American Association for the Advancement of Science
Feb 1997	163 rd Annual Conference of the American Association for the Advancement of Science

PROFESSIONAL LICENSURE

Mississippi	#1858 state license: active in good standing (2009-current)
Alabama	#6542 faculty license: expired in good standing (2013-2016)
Florida	#VM11575 state license: expired in good standing (2011-2013)
North Carolina	#6482 state license: expired in good standing (2008-2009)