

CURRICULUM VITAE

Katie Tolbert

WORK

Department of Small Animal Clinical Sciences
Texas A&M University, College of Veterinary Medicine
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RESIDENCE

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EDUCATIONAL BACKGROUND

Ph.D.	Comparative Biomedical Sciences	2013	North Carolina State University, Raleigh, NC
D.A.C.V.I.M.	Internal Medicine (Small Animal)	2010	North Carolina State University, Raleigh, NC
D.V.M.	Veterinary Medicine	2006	University of Georgia, Athens, GA
B.S.	Animal Science	2001	Berry College, Rome, GA

PROFESSIONAL EXPERIENCE

Clinical Associate Professor	Small Animal Clinical Sciences Texas A&M University College Station, TX	9/2018- present
Clinical Veterinarian	North Carolina State University, Raleigh, NC	10/2018- present
Veterinary Practice Logistics Liaison	The Dog Aging Project: Genetic and Environmental Determinants of Healthy	2/2019- present

	Aging in Companion Dogs; Funded by the National Institute on Aging	
	College Station, TX	
Adjunct Professor	Small Animal Clinical Sciences University of Tennessee Knoxville, TN	9/2018-current
Assistant Professor	Small Animal Clinical Sciences University of Tennessee Knoxville, TN	3/2013-9/2018
Residency in Small Animal Internal Medicine	North Carolina State University, Raleigh, NC	2007–2010
Small Animal Rotating Internship	University of Georgia, Athens, GA	2006-2007
Research Specialist	Emory University School of Medicine, Atlanta, GA	2002

HONORS:

1. Undergraduate:
 - a. Scholar Athlete, 2000 & 2001, TranSouth Athletic Conference (soccer), by committee
 - b. Academic-All American (soccer), 2000 & 2001, National Association of Intercollegiate Athletes, by committee
2. Veterinary:
 - a. Forehand Clinical Excellence Scholarship, University of Georgia College of Veterinary Medicine, 2006, by faculty selection
3. Graduate:
 - a. Research Award for best oral abstract, *28th Annual Forum of the American College of Veterinary Internal Medicine*, 2010, Comparative Gastroenterology Society, by review committee of CGS members
 - b. Graduate Student of the Month, Comparative Biomedical Sciences Graduate Program, North Carolina State University, 2011, selection by associate dean of research
 - c. Research Award for 1st place oral presentation, Phi Zeta Annual CVM Research Forum, 2011, by panel of faculty judges
 - d. Research Award for best oral abstract, *30th Annual Forum of the American College of Veterinary Internal Medicine*, 2012, Comparative Gastroenterology Society, by review committee of CGS members
4. Faculty:
 - a. Young Investigator Award 3rd place finalist, American Veterinary Medical Association & American Veterinary Medical Foundation, 2014.
 - b. Phi Zeta National Manuscript Winner (mentoring author), Clinical Sciences Manuscript, 2015.
 - c. College of Veterinary Medicine Faculty Spotlight Selection. University of Tennessee Faculty Appreciation Week, 2016.
 - d. Office of Sponsored Programs Highlighted Faculty. University of Tennessee. January, 2017.
 - e. UTK CVM Class of 2018 Distinguished Clinician Award. University of Tennessee. May, 2018.
 - f. Zoetis Award for Veterinary Research Excellence, University of Tennessee, 2018.

SOCIETY MEMBERSHIPS:

1. Alpha Zeta, 2001
2. Omicron Delta Kapp, 2001
3. Comparative Gastroenterology Society, 2009-present
4. American College of Veterinary Internal Medicine, 2010-present
5. American Gastroenterology Association, 2010-present
6. American Veterinary Medical Association, 2006-2008; 2016-present
7. Phi Zeta Veterinary Professional Honor Society, 2016-present

PROFESSIONAL PRESENTATIONS:

Scientific presentations (* denotes presenter)

1. National
 - a. Annual meeting of the Association of Southeastern Biologists
 - i. **Tolbert MK***, Carleton RE. "Survey of cats euthanized by animal control agencies in Northwest Georgia for *Dirofilaria immitis* and intestinal nematode parasites." *Program of the 63rd Annual Meeting of the Association of Southeastern Biologists* (2002) 49 (No. 2): 187. Appalachian State University, Boone, NC (oral-April 2002).
 - b. Forum of the American College of Veterinary Internal Medicine (ACVIM)
 - i. **Tolbert MK***, Bissett S, King A, Davidson G, Papich M, Peters E, Degernes L "Efficacy of oral famotidine and two omeprazole formulations for the control of intragastric pH in dogs." *J Vet Intern Med* 2010;24(3):722-3. *28th Annual Forum of the ACVIM*. Anaheim, CA (oral-June 2010).
 - ii. **Tolbert MK***, Leutenegger CM, Lobetti R, Birrell J, Gookin JL. "Species identity of trichomonads in feces of dogs with diarrhea and association with enteric coinfection." *J Vet Intern Med* 2011; 25(3):690. *29th Annual Forum of the ACVIM*. Denver, CO (oral-June 2011).
 - iii. **Tolbert MK***, Gookin JL. "Exogenous sialic acid and cysteine protease inhibition block adherence of *Trichomonas foetus* to the intestinal epithelium." *J Vet Intern Med* 2012;26(3). *30th Annual Forum of the ACVIM*. New Orleans, LA (oral-May 2012).
 - iv. **Tolbert MK***, Stauffer SH, Gookin JL. "Cysteine proteases of feline *T. foetus* mediate adherence and cytopathogenicity to intestinal epithelial cells." *J Vet Intern Med* 2013;27:700. *31st Annual Forum of the ACVIM*, Seattle, WA (poster-June 2013).
 - v. Parkinson S, **Tolbert MK***, Messenger K, Odunayo A, M Brand, A Reed, E Peters, G Davidson, MG Papich. "Evaluation of the efficacy of oral acid suppressants in cats." *32nd Annual Forum of the ACVIM*, Nashville, TN (oral research report; presenting and mentoring author-2014).
 - vi. **Tolbert MK***, Gould E, Brand M. "Feline *T. foetus* cytotoxicity can be inhibited by selective, small-molecule cysteine protease inhibitors." *J Vet Intern Med* 2015;29:1273. *33rd Annual Forum of the ACVIM*. Indianapolis, Indiana. (oral research report-June 2015).
 - vii. Gould E*, Brand M. **Tolbert K** (mentoring author). "Qualitative and quantitative identification of feline *Trichomonas foetus* surface antigens: Putative targets for diagnosis and treatment." *J Vet Intern Med* 2015;29(4). *33rd Annual Forum of the ACVIM*. Indianapolis, Indiana. (oral research abstract-2015).
 - viii. **Tolbert MK***. "Rational selection and use of acid suppressants." *33rd Annual Forum of the ACVIM*, Indianapolis, Indiana (oral presentation; scientific session-June 2015).
 - ix. **Tolbert MK***, Gould E, Brand M, Kania S. "Evaluation of the presence and role of cysteine protease 30 in feline *T. foetus*." *J Vet Intern Med* 2016;30:1460. *34th Annual Forum of the ACVIM*, Denver, CO. (oral research abstract-June 2016).
 - x. E. Gould*, C. Clements, A. Reed, L. Giori, J.M. Steiner, J.A. Lidbury, J.S. Suchodolski, M. Brand, T. Moyers, L. Emery, **K. Tolbert** (mentoring author). "Evaluation of the effect of omeprazole on serum calcium, magnesium, gastrin and bone in cats." *J Vet Intern Med* 2016;30:1460. *34th Annual Forum of the ACVIM*. Denver, CO. (oral research abstract-June 2016). **This presentation was recognized by the *Comparative Gastroenterology Society for first place oral research abstract*.
 - xi. Schmid S, Suchodolski J, Gould E, Price J, **MK Tolbert** (mentoring author). Pilot Evaluation of the Effect of Omeprazole on the Feline Fecal Microbiome and Metabolome. *J Vet Intern Med*

- 2017;31;1285. 35th Annual Forum of the ACVIM. National Harbor, MD. (poster-June 2017).
- xii. **Tolbert MK**, Olin S, MacLane S, Steiner J, Vaden S, Gould E, Price J. Evaluation of Gastric pH and Serum Gastrin Concentrations in Cats with Chronic Kidney Disease. *J Vet Intern Med* 2017;31;1320. 35th Annual Forum of the ACVIM. National Harbor, MD. (oral research abstract-June 2017).
- xiii. Dickson R, Bemis D, **Tolbert MK** (mentoring author). *Enterococcus faecium* inhibits feline *T. foetus* growth and adhesion to intestinal epithelial cells. *J Vet Intern Med* 2017;31;1315. 35th Annual Forum of the ACVIM. National Harbor, MD. (poster-June 2017).
- xiv. Dickson R, Daves M, Bemis D, Cecere T, Gookin J, Vose J, **Tolbert MK** (mentoring author). Enterococcus probiotics inhibit growth and adhesion of feline *Trichomonas foetus*. *J Vet Intern Med* 2018;32:79. 36th Annual Forum of the ACVIM. Seattle, WA. (oral research abstract-June 2018). **This presentation was recognized by the Comparative Gastroenterology Society as the oral research abstract winner.
- xv. **Tolbert MK**, Elizabeth Golly, Adesola Odunayo, Maggie Daves, Julie Vose, Silke Hecht, Jörg M. Steiner, Shanna Hillsman, Josh Price. Frequency of oral famotidine administration determines the development of tolerance in cats. 36th Annual Forum of the ACVIM. Seattle, WA. (oral research report-June 2018).
- xvi. Gould E, Lennon E, Cecere T, **Tolbert MK**. (mentoring author). Acid suppressants modulate in vitro mast cell structure, degranulation, and viability. *J Vet Intern Med* 2018;32:59. 36th Annual Forum of the ACVIM. Seattle, WA. (oral research abstract-June 2018). **This presentation won the 2018 ACVIM Oncology Abstract Award.
- xvii. Tolbert MK. Diagnosis and Management of GI Bleeding in Dogs. 37th Annual Forum of the ACVIM, Phoenix, AZ. (oral presentation; scientific session-June 2019).
- xviii. Hedges K, Odunayo A, Price J, Hecht S, Tolbert MK. Evaluation of the effect of a famotidine continuous rate infusion on intragastric pH in dogs. 37th Annual Forum of the ACVIM, Phoenix, AZ. (poster presentation-June 2019).
- xix. Kuhl A, Odunayo A, Price J, Hecht S, Marshall K, Tolbert MK. Comparative analysis of the effect of intravenously administered acid suppressants on gastric pH in dogs. 37th Annual Forum of the ACVIM, Phoenix, AZ. (poster presentation-June 2019). **This presentation was recognized by the Comparative Gastroenterology Society as the poster research abstract winner.
- c. American Gastroenterology Association-Digestive Disease Week
- i. **Tolbert MK***, Gookin JL. “*Trichomonas foetus* adheres to intestinal epithelium via receptor-ligand and cysteine protease dependent mechanisms.” *Gastroenterology* 2012. San Diego, CA (poster-May 2012) **This presentation was supported by a travel grant award from the Morris Animal Foundation.
- ii. **Tolbert MK**, Stauffer SH, Gookin JL*. “Cysteine proteases of the enteric trichomonad *Trichomonas foetus* mediate adhesion to intestinal epithelial cells and enterocyte apoptosis.” *Gastroenterology* 2013. Orlando, FL (poster-May 2013)
- d. NIH National Veterinary Scholars Symposium
- i. **Tolbert K***, Stauffer S, Brand M, Gookin J. “Cysteine protease activity of feline *Trichomonas foetus* promotes adhesion-dependent cytotoxicity to intestinal epithelial cells.” Ithaca, NY. 2014. (oral)
- ii. Dickson RE*, Bemis D, **Tolbert MK**. “Evaluating the effect of Fortiflora probiotic therapy on feline *Trichomonas foetus* infection.” Columbus, OH. 2016. (poster; mentoring author)
- iii. Daves M, Vose J, Odunayo A, Hecht S, **Tolbert MK**. “Evaluation of the effect of dosing frequency on famotidine tolerance in cats”. Bethesda, MD. 2017. (poster; mentoring author)
- iv. Jones S, Gaier A, Enomoto H, Papich M, **Tolbert K**, Messenger K. The effect of combined carprofen and omeprazole administration on gastrointestinal permeability in dogs. Boston, MA. 2019. (poster; co-mentoring author)
- v. Gaier A, Papich M, **Tolbert K**, Enomoto H, Jones S, Messenger MK. Effects of combined carprofen and omeprazole administration on carprofen pharmacokinetics. Boston, MA. 2019. (poster).
- e. International Veterinary Emergency and Critical Care Symposium
- i. Howell R*, **Tolbert K**, Odunayo A. “Evaluation of the efficacy of simultaneous acid suppressant

- administration in healthy dogs.” Indianapolis, IN. (poster-September 2014; mentoring author)
- ii. Smith P*, **Tolbert K**, Gould E, Knych H, Messenger K. “Pharmacokinetics, sedation, and hemodynamic changes following oral transmucosal administration of detomidine gel in cats.” Grapevine, TX. (oral-September 2016)
- iii. Kuhl A*, Odunayo A, Hecht S, Marshall K, Price J, **Tolbert MK**. Comparative analysis of the effect of intravenously administered acid suppressants on gastric pH in dogs. Washington, D.C. (oral-September 2019)

f. GutSea/Ski Comparative Gastroenterology Society Conference

- i. **Tolbert MK***, Gould E, Brand M. “Future directions for the use of select cysteine protease inhibitors as novel treatments for feline trichomonosis.” Placencia, Belize. (oral abstract-March 2015).
- ii. Parkinson*, **Tolbert**, Odunayo, et al. “Acid suppressants in cats.” Placencia, Belize. (oral abstract-March 2015).
- iii. **Tolbert MK***, Olin S, MacLane S, et al. “Evaluation of gastric pH and serum gastrin concentrations in cats with CKD”. Kauai, Hawaii. (oral abstract-February 2017)
- iv. Schmid S*, Suchodolski J, Gould E, Tolbert K. “Pilot evaluation of the Effect of Omeprazole on the Feline Fecal Microbiome and Metabolome”. Kauai, Hawaii. (oral abstract-February 2017)
- v. Golly E*, **Tolbert MK**, et al. The frequency of famotidine administration influences its efficacy in cats over time. Winterpark, Colorado. (oral abstract-March 2018).
- vi. Tolbert MK*. A comparative evaluation of acid suppressant therapy in dogs and cats. Barcelona, Spain. (oral abstract-May 2019).
- vii. Tolbert MK*. Understanding drug failure in cats. Winterpark, CO (oral abstract-Feb 2020).

2. Local:

a. Comparative & Experimental Medicine and Public Health Research Symposium, Knoxville, TN

- i. **Tolbert MK***, Stauffer SH, Gookin JL. “Cysteine proteases of feline *Tritrichomonas foetus* mediate adhesion-dependent cytotoxicity to intestinal epithelial cells.” (oral-May 2013).
- ii. Parkinson S*, **Tolbert MK**, Messenger K, Odunayo A, Brand M, Reed A, Peters E, Davidson G, Papich M. “The effect of oral acid suppressants in cats.” (oral-May 2014; mentoring author);
**Parkinson recognized by the UT Comparative & Experimental Medicine abstract judges for resident award of excellence. This project was also recognized by the Comparative Gastroenterology Society for a resident research travel award for the GutSea 2015 Conference and was selected to represent UTK and won the national Phi Zeta competition.
- iii. Gould E*, Clements C.....**Tolbert MK**. Evaluation of Oral Omeprazole on Serum Calcium, Magnesium, Cobalamin, Gastrin Concentrations, and Bone in Cats. (oral-May 2016; mentoring author). **Gould recognized by the UT Comparative & Experimental Medicine abstract judges for graduate student award of excellence.
- iv. Hedges K*, Odunayo A, Hecht S, Price J, **Tolbert MK**. Evaluation of the effect of a famotidine constant rate infusion on intragastric pH in healthy dogs. (oral-October 2018; mentoring author).
**Hedges recognized by the UT Comparative & Experimental Medicine abstract judges for 2nd place veterinary student category.

b. Comparative Medicine and Translational Research Training Program (CMTRTP) symposium, Raleigh, NC.

- i. **Tolbert MK***, Magness SM, Gookin JL “Modeling feline intestinal epithelial pathogen interactions in vitro.” (oral-October 2010).
- ii. NCSU College of Veterinary Medicine Research Forum, Raleigh, NC
- iii. **Tolbert MK***, Gookin JL. “An Intestinal Epithelial Cell Culture Model of *Tritrichomonas foetus* Cytopathogenicity.” (oral-March 2011).

c. Center for Gastrointestinal Biology and Disease Research Competition, Raleigh, NC

- i. **Tolbert MK***, Gookin JL. “The adherence characteristics of *Tritrichomonas foetus* to the intestinal epithelium.” (oral-December 2011).

CONTINUING EDUCATION:

1. Local

- a. December Continuing Education Series ("Henton Conference"), University of Tennessee, College of Veterinary Medicine, Knoxville, TN
 - i. "Feline Trichomonosis: A Rapidly Emerging Cause of Feline Diarrhea." December 2013.
 - ii. "Feline Acromegaly: A Little Recognition Helps a Big Disease." December 2014.
 - iii. "Diagnostic and Therapeutic Approach to Feline Vomiting". December 2015.
 - iv. "Evidence and Indications for the Use of Probiotics in Dogs and Cats." December 2015.
- b. Veterinary Partners' Appreciation Conference, University of Tennessee, College of Veterinary Medicine, Knoxville, TN
 - i. "What's New in Treatment for Erosions, Ulcerations and Other Pains in the Gut." May 2014.
- c. UT CVM Faculty Rounds, Knoxville, TN
 - i. "Taking the Power Out of Parasitic Proteases: Targeting Feline Trichomonosis." August 2014.
- d. Vetvine (www.vetvine.com). Evidence Based Update Roundtable discussion.
 - i. "Antacids in Cats." February 2015.
- e. Canine conference. Texas A&M University. College Station, TX.
 - i. "When Should I Suspect GER, Hiatal hernia, and Related Disorders? August, 2019
 - ii. Rational Use of Gastrointestinal Protectants. August, 2019.

2. Regional (by invitation)

- a. Ralph Lee's Great Smokey's Veterinary Conference, Asheville, NC October 2015.
 - i. "Oropharyngeal and esophageal diseases: Strategies for diagnosis and treatment" 1.5 hr.
 - ii. "Pheochromocytoma: Update in the diagnosis and treatment" 1.25hr.
 - iii. "The hows and whys of using acid suppressants" 1.5 hr.
 - iv. "Infectious disease: Secrets of success with frustrating cases" 1 hr.
- b. North American Veterinary Community (NAVC) Conference Orlando, FL January 2016 (On behalf of Comparative Gastroenterology Society):
 - i. "Gastrointestinal Protozoa: The state of the art in diagnosis and management" with Craig Ruaux.
 - ii. "Vomiting Cats: Secrets of success with frustrating cases."
 - iii. "Controlling Gastric Acidity: Problems, pitfalls and opportunities."
 - iv. "GI Immunodiagnostics: Cutting edge techniques."
- c. American Animal Hospital Association (AAHA) Yearly Conference Austin, TX April 2016 (On behalf of the Winn Feline Foundation):
 - i. "Gastroprotectants: Strategies for using them successfully". 1 hr
 - ii. "Acid suppressants: Evidence for their use in organ failure and inflammation". 1 hr.
 - iii. "*Tritrichomonas foetus*: What's new on the horizon in diagnosis and treatment". 1 hr.
- d. UnConventional Veterinary Conference (CVC)
 - i. "Feline constipation: Novel treatment strategies." 1 hr. Va Beach May 2016
 - ii. "Feline vomiting: New tactics for identifying the cause and treating it." 1 hr. Va Beach May 2016, San Diego Dec 2016
 - iii. "Dysphagia and dysmotility: Recognizing it early and correctly." 1 hr. Va Beach May 2016, San Diego Dec 2016
 - iv. "New evidence for using gastroprotectants in patients with ulcers and other pains in the gut." 1 hr. Va Beach May 2016, San Diego Dec 2016
 - v. "The hows and whys of using acid suppressants." 1 hr. Va Beach May 2016, San Diego Dec 2016.

- vi. "Evidence and indications for using probiotics in dogs and cats." 1 hr. San Diego Dec 2016.
- e. CFVMA and FVMA Annual Conferences, Orlando, FL and Tampa FL Feb and April 2017.
 - i. Management of the constipated cat. 1 hr
 - ii. Recognition and treatment of feline enteropathy. 1 hr
 - iii. Update of the appropriate use of gastroprotectants. 1 hr
 - iv. Appropriate and rational use of acid suppressants and antacids. 1 hr
 - v. Evidence-based approach to the use of probiotics in canine and feline GI disease. 1 hr
 - vi. Diagnosis and treatment of feline infectious diarrhea. 1 hr
 - vii. Case discussions: Infectious disease. 1 hr
 - viii. Case discussions: Gastroduodenal ulcerations. 1hr
- f. Mississippi Valley Veterinary Medical Association Annual Conference Peoria, IL March 2017.
 - i. Management of the constipated cat. 1 hr
 - ii. Recognition and treatment of feline enteropathy. 1 hr
 - iii. Evidence-based approach to the use of probiotics in canine and feline GI disease. 1 hr
 - iv. Pheochromocytoma: Uncommon or Unrecognized?
 - v. Case discussions: Infectious disease. 1 hr
 - vi. Case discussions: Gastroduodenal ulcerations. 1 hr
- g. Cincinnati Veterinary Medical Association, Cincinnati, OH September 2017.
 - i. Tolbert MK*. "Consensus on the Use of Gastroprotectants in Dogs and Cats" 2 hr
- h. Gulf-Atlantic Veterinary Conference, Boca Raton, FL December, 2017.
 - i. Therapeutic Approach to Canine Chronic Kidney Disease. 1 hr
 - ii. Anti-emetics and Appetite Stimulants: A Review of the Old and an Introduction to the New. 1 hr
 - iii. Top 10 Studies of the Year and How They Will Change Your Clinical Practice. 1 hr
 - iv. Update on the Use of Gastroprotectants. 1 hr
 - v. Approach to Canine Enteropathy. 1 hr
 - vi. Emerging Endocrine Diseases: How to Recognize Them and Treat them. 1 hr
 - vii. Feline Hyperthyroidism: How the New Studies are Changing my Practice. 1 hr
- i. 47th Annual Critical Care Congress, San Antonio, TX. February 2018. (Post-graduate review. Invited speaker on behalf of ACVECC).
 - i. Basic physiology of the GI tract - Part I. 1 hr.
 - ii. Gastroprotectants. 1 hr.
 - iii. GI motility and prokinetic therapy. 1 hr.
 - iv. Case-based approach. Medical and nutritional interventions for common GI disorders. Part I. 1 hr (with Dr. Martha Cline).
 - v. Case-based approach. Medical and nutritional interventions for common GI disorders. Part II. 1 hr (with Dr. Martha Cline).
 - vi. Case-based approach. Medical and nutritional interventions for common GI disorders. Part III. 1 hr (with Dr. Martha Cline).
 - vii. Case-based approach. Medical and nutritional interventions for common GI disorders. Part IV. 1 hr (with Dr. Martha Cline).
- j. Fetch Veterinary Conference, Virginia Beach, VA. May 2018. (On behalf of Winn Feline Foundation).
 - i. Top feline studies of the year: How they will change your clinical practice. 1 hr.
 - ii. Using gastroprotectants more effectively. 1 hr.
 - iii. Probiotics: Evidence to guide their use in companion animals. 1 hr.
- k. Winn Feline Foundation 40th Annual Symposium on Feline Health. Atlanta, GA. June 2018.
 - i. Exploring new therapies for a common cause of feline infectious diarrhea. 1 hr.
- l. Purdue Annual Veterinary Conference. West Lafayette, IL. September 2018.
 - i. Approach to Canine PLE. 1 hr.
 - ii. Approach to Post-op Ileus. 1 hr.

- iii. Management of the Constipated Cat. 1 hr.
- iv. Anti-emetics and Appetite Stimulants: A Review of the Old and an Introduction to the New. 1 hr.
- v. Using gastroprotectants more effectively. 1 hr.
- vi. Probiotics: When to Use Them With GI Disease. 1 hr.

m. Southwestern Veterinary Conference. San Antonio, TX. September 2018.

- i. Approach to Canine PLE. 1 hr.
- ii. Pro-kinetic therapy: How to keep the GI tract moving. 1 hr.
- iii. Management of the Constipated Cat. 1 hr.
- iv. Anti-emetics and Appetite Stimulants: A Review of the Old and an Introduction to the New. 1 hr.
- v. Using gastroprotectants more effectively. 1 hr.
- vi. Probiotics: Evidence to guide their use in companion animals. 1 hr.

n. North American Veterinary Community (NAVC) Conference Orlando, FL January 2019 and January 2020:

- i. "Feline constipation: Case based discussion" 2 hr. 2019.
- ii. "The clinical approach to feline enteropathy" 1 hr. 2019.
- iii. "GI dysmotility and prokinetic therapy". 1 hr. 2019.
- iv. "Controlling vomiting and nausea: Using anti-emetics effectively". 20 min. 2019.
- v. "Clinical applications for video capsule endoscopy". 20 min. 2019.
- vi. "Treat to Target: How to create a personalized approach to combat unintended weight loss and vomiting in feline chronic enteropathy". 1 hr. 2020.

3. International (by invitation)

a. International Congress of Internal Medicine, Madrid, Spain. June 2017.

- i. The approach to feline vomiting. 1 hr.
- ii. Diagnostic and therapeutic evaluation of feline enteropathy. 1 hr.
- iii. Update on the use of gastroprotectants in dogs and cats. 1 hr.

b. Vet KU-Texas A&M Internal Medicine Conference: Gastroenterology. Pattaya, Thailand. October 2018.

- i. Approach to the patient with GI bleeding. 1 hr.
- ii. Rational use of acid suppressants. 1 hr.
- iii. Panel discussion: The use of gastric acid suppressants 1 hr.
- iv. Probiotics: Panacea or placebo effect. 1 hr.
- v. Panel discussion: Modulation of the intestinal microbiota. 1 hr.
- vi. Protein-losing enteropathy: Improving patient outcome. 1 hr.
- vii. Panel discussion: Controversies in pancreatitis. 1 hr.
- viii. Panel discussion: Show and tell: Unusual endoscopy images. 1 hr.

c. Canadian Feline Practitioner Forum. Montreal, Canada. February 2019.

- i. Prebiotics, Probiotics, and Fecal Microbial Transplantation in Cats. 1 hr.

d. European College of Veterinary Internal Medicine-Companion Animals Congress. Milan, Italy. September 2019. (On behalf of the European Comparative Gastroenterology Society).

- i. Approach to GI bleeding: Thinking beyond acid suppression. 1 hr.
- ii. Using acid suppressants effectively. 1 hr.

e. Kongress Erkrankungen des Gastrointestinaltraktes. Zurich, Switzerland. November, 2019.

- i. Managing nausea, vomiting, and dysrexia in the chronically ill patient. 1 hr.
- ii. Approach to feline infectious diarrhea. 1 hr
- iii. Diagnostic and Therapeutic approach to canine chronic enteropathy. 1 hr
- iv. Top studies of the year in small animal medicine. 1 hr

- v. The use of probiotics in dogs and cats: Where are we now? 1 hr
- vi. Update to the use of acid suppressants in dogs and cats. 1 hr

TEACHING COMMITMENT:

1. Clinical Teaching Commitment (weeks per year)
UTK 2013-2018: 16-22 weeks (Date of hire: March 13, 2013)

NCSU 2018-present: ~3-4 weeks routine internal medicine service; ~24 weeks per year focused appointments (W-F with limited case load)
2. Didactic Courses
 - a. UTK VM 802 Application-Based Learning Experience (ABLE)
 - i. 2013-ABLE #4 full session-first year
 - ii. 2014-ABLE #5 wrap up session-second year
 - iii. 2014-ABLE #6 full session-third year
 - iv. 2015-ABLE #6 full session-third year
 - v. 2015-ABLE #3 introduction-second year
 - vi. 2016-ABLE #2 full session-first year
 - vii. 2017-ABLE #7 full session-long-third year
 - b. UTK VMD 887 Feline Medicine
 - i. 2013: Lecture Hours: 2.0 Lab Hours: 3.0; Course coordinator
 - ii. 2014-2016: Lecture Hours: 4.0 hr/yr Lab Hours: 0; Course coordinator
 - iii. 2017: Lecture Hours: 2.0 hr/yr Lab Hours: 0; Course coordinator
 - c. UTK VM 813 Immunology
 - i. 2013-2016: Lecture Hours: 0.5 hr/year.
 - d. UTK CEM 542 Cell Molecular Basis of Disease
 - i. 2014-2018: Lecture Hours: 2.0 hr/year
 - e. UTK AS-CEM 652 Disorders of the Endocrine System
 - i. 2018: Lecture Hours: 2.0
 - f. UTK VM 815 Virology
 - i. 2015-2017: Lecture Hours: 0.5/year
 - g. UTK VMD 842 Alimentary Systems
 - i. 2015-2018: Lecture Hours: 4.0 Lab Hours: 4.0/yr
 - h. UTK VM 853 Endocrine System:
 - i. 2016-2017: Lecture Hours 3.0 Lab Hours: 4.0
 - ii. 2018: Lecture Hours 4.0 Lab Hours: 4.0
 - i. UTK UT Peer-Assisted Communication Training (PACT)
 - i. 2014: Lab Hours: 12
 - ii. 2015: Lab Hours: 8
 - iii. 2016: Lab Hours 12
 - j. NCSU VMB 943 Veterinary Pharmacology
 - i. 2018-2020: Lecture Hours: 2
 - k. TAMU VSCS 955 (or 957) Small Animal Medicine
 - i. 2019: Lecture Hours: 2
 - ii. 2020: Lecture Hours: 2
3. House officer training and graduate student seminars
 - a. Intern/Resident Seminars
 - i. 2013-UTK Gastric physiology and pathophysiology of disease, 1 hour (December 2013).
 - ii. 2014-UTK Pheochromocytoma, 1 hr (January, 2014).
 - iii. 2014-UTK Hyperthyroidism, 1 hr (February, 2014).
 - iv. 2014-UTK Feline enteric pathogens, 1 hr (April, 2014).
 - v. 2015-UTK Immunodiagnostics, 1 hr (May, 2015).

- vi. 2016-UTK A review of GI physiology, 1 hr (Surgery board prep)
- vii. 2017-UTK Update on pheochromocytoma, 1 hr (Feb, 2017)
- viii. 2017-TAMU The Stomach and acid suppressant drugs (Nov, 2017)
- ix. 2018-NCSU Approach to PLE, 1 hr (May 2018)
- x. 2018-NCSU Anti-emetics and appetite stimulants (May 2018)
- xi. 2018-NCSU Gastroprotectant therapy (Oct 2018)
- xii. 2019-TAMU Feline infectious diarrhea (Feb 2019)
- xiii. 2019-LSU Gastroprotectant therapy (Oct 2019)
- xiv. 2020-TAMU Reaching a Consensus on Acid Suppression (April, 2020)
- b. CEM Graduate Seminar series
 - i. 2015-Evidence and Indication for Acid suppression, 1 hr (November, 2015).

COMMITTEES AND OFFICES HELD:

1. Department:
 - a. Small Animal Department Head Search Committee, 2013-2015
 - b. Public Health Veterinarian Search Committee, 2013-2014
 - c. Teaching Peer Review Committee, Dr. Elizabeth May, 2013-2018
 - d. Foster Home Award Committee, 2014-2015
 - e. ABLE Curriculum Committee, 2014
 - f. Small Animal Internal Medicine Search Committee 2014-2015
 - g. Medical Records Committee, 2015-2018
 - h. CVM Expansion Task Force, 2015-2016
 - i. Central Laboratory Receiving Task Force, 2015-2016
 - j. Neurology Search Committee, 2016-2017
 - k. Teaching Peer Review Committee, Dr. Isabella Pfeiffer, 2017-2018
 - l. Teaching Peer Review Committee, Dr. Elizabeth Lennon, 2017-2018
2. College:
 - a. CEM Admissions & Academic Progress Committee, 2016-2018
 - b. Research Committee, 2017-2018
 - c. Graduate Council By-Proxy member, 2017-2018
3. Specialty College:
 - a. ACVIM Gastroprotectant Consensus Statement Panelist, 2015-2018
 - b. ACVIM SAIM Certifying Exam Committee Member, 2016-present (term ends June 2020)
4. Other:
 - a. Comparative Gastroenterology Society:
 - i. At-large board member, 2016-2019
 - ii. President elect, 2019-current
 - b. Experimental Parasitology Journal-Board Member, 2016-2019

GRADUATE STUDENTS, RESIDENTS, INTERNS AND POST-DOCTORAL ASSOCIATES TRAINED:

1. Graduate students
 - a. Emily Gould, DVM. Masters and PhD student. Comparative and Experimental Medicine Program. Graduate advisor. MS conferred May 2016. PhD underway.
 - b. Kate Purple, DVM. Ph.D student. Comparative and Experimental Medicine Program. PhD committee member. (Major Advisor: R. Gerhold, UTK). Completed. 2018.
 - c. Jennifer Bourne. Ph.D. student. Genome Science and Technology Program. PhD committee member. (Major Advisor: M. Cekanova). Completed. 2018.
 - d. Kasey Mabry, DVM. PhD student. PhD Committee member (Major Advisor: T. Hill, UGA). Ongoing.
 - e. Naila Telles. Masters student. Graduate advisor. Ongoing.
2. Residents/Interns
 - a. Samantha Parkinson, DVM. Clinical resident in internal medicine. Research mentor and resident advisor. Project: Evaluation of the efficacy of acid suppressants in cats. Department of Small Animal

- Clinical Science, College of Veterinary Medicine, University of Tennessee. Fall 2013-2016. Completion of SAIM residency. Publication #4 and 33.
- b. Lauren Adelman, DVM. Clinical resident in internal medicine. Resident advisor. Fall 2014-2017. Completion of SAIM residency.
 - c. James Howard, DVM. Rotating Small Animal Intern. Research mentor. Project: Retrospective analysis of feline tracheal tumors. Fall 2014-2015. Completed SA surgery residency at Ohio State University. Publication #13 and 32.
 - d. Sarah Schmid, DVM. Clinical resident in internal medicine. Research mentor. Project: Evaluate of the effect of omeprazole on the fecal microbiome and metabolome of cats. UTK. Completed. Publication #17.
 - e. Elizabeth Golly, DVM. Research mentor and resident advisor. Project: Investigation of the effect of prolonged famotidine dosing in cats. UTK. Completed. Publication #19.
 - f. Phillip Ryan, DVM. Research mentor. Project: Evaluation of orally administered PPIs in cats. UTK. In progress.
 - g. Amanda Kuhl, DVM. Research co-mentor. Project: Intravenous acid suppressants in dogs. UTK. Completed. Publication #23.
 - h. Samantha Duxbury, DVM. Research mentor. Project: Evaluation of the inappropriate use of proton pump inhibitors in hospitalized dogs. NCSU. In progress.
 - i. Elena Pavlova, DVM. Research co-mentor. Project: Prevalence of gastroduodenal ulceration and gastric acidity in dogs with congenital PSS. TAMU. In progress.
 - j. Elijah Ernst, DVM. Research mentor. Project: Evaluation of gastric pH in dogs with late-stage CKD. In progress.
 - k. Ashley Spencer, DVM. Research mentor. Project: Clinical trial in cats with late-stage CKD. Manuscript in progress.
3. Veterinary students
- a. Natasha Tinsley, Class of 2017. Faculty advisor. UTK. Fall 2013-2017 (completed DVM 2017).
 - b. Rachel Howell, Class of 2016. Faculty research mentor. UTK. Summer 2014. COE summer research program: Evaluation of combination acid suppressant therapy in dogs. (completed DVM 2016). Publication #7.
 - c. Alicia Robbins, Class of 2018. Faculty advisor. UTK. Fall 2014-current.
 - d. Stephen Ladd, Class of 2016. Faculty advisor. UTK. Winter 2015-2016. (completed DVM 2016).
 - e. Casey Clements, Class of 2018. Faculty research mentor. UTK. Summer 2015. COE summer research program: Investigation of the effects of prolonged omeprazole administration in cats. Publication #8
 - f. Rachel Dickson, Class of 2018. Faculty research mentor. UTK. Winter 2015-2019. Evaluation of the effect of probiotics on the cytopathogenicity of feline *T. foetus*. Publication #21.
 - g. Keiasha Johnson, Class of 2019. Faculty advisor. UTK. Fall 2017-2018.
 - h. Logan Kopp, Class of 2020. Faculty advisor. UTK. Fall 2016-2018.
 - i. Katherine Hedges, Class of 2020. Faculty research mentor. UTK. Summer 2017. Investigation of famotidine CRI in dogs. Publication #22.
 - j. Susie Jones, Class of 2022. Faculty research co-mentor. NCSU. Summer 2019. Pharmacodynamic effects of co-administration of carprofen and omeprazole. Publication submitted to JVIM.
 - k. Ann Gaier, Class of 2022. Faculty research co-mentor. NCSU. Summer 2019. Pharmacokinetic effects of co-administration of carprofen and omeprazole. Publication in progress.

PUBLICATIONS – (PEER REVIEWED):

I. ORIGINAL STUDIES:

1. Carleton, RE and **Tolbert MK**. Prevalence of *Dirofilaria immitis* and gastrointestinal helminths in cats euthanized at animal control agencies in northwest Georgia. *Vet Parasitol.* 2004; 119(4):319-326.
2. **Tolbert K**, Bissett S, King A, Davidson G, Papich M, Peters E, Degernes L. Efficacy of oral famotidine and two omeprazole formulations for the control of intragastric pH in dogs. *J Vet Int Med.* 2011; 25(1):47-54.

3. **Tolbert MK**, Leutenegger CM, Lobetti R, Birrell J, Gookin JL. Species identification of trichomonads and associated coinfections in dogs with diarrhea and suspected trichomonosis. *Vet Parasitol* 2011; 187(1-2):319-22.
4. **Tolbert MK**, Stauffer SH, Gookin JL. Feline *Tritrichomonas foetus* adhere to intestinal epithelium by receptor-ligand-dependent mechanisms. *Vet Parasitol.* 2013; 192(1-3):75-82.
5. **Tolbert MK**, Stauffer SH, Brand M, Gookin JL. Cysteine protease activity of feline *Tritrichomonas foetus* promotes adhesion-dependent cytopathogenicity to intestinal epithelial cells. *Infection and Immunity.* 2014;82(7):2851-9.
6. Parkinson S, **Tolbert MK**, Messenger K, Odunayo A, M Brand, G Davidson, E Peters, A Reed, MG Papich. Evaluation of the effect of oral acid suppressants on intragastric pH in cats. *J Vet Int Med.* 2015;29(1):104-12. (mentoring and corresponding author). *National Phi Zeta winning manuscript.
7. **Tolbert K**, Odunayo A, Howell R, Peters E, Reed A. Efficacy of Intravenous Administration of Combined Acid Suppressants in Healthy Dogs. *J Vet Int Med.* 2015;29(2):556-60. (mentoring and corresponding author).
8. E. Gould, C. Clements, A. Reed, L. Giori, J.M. Steiner, J.A. Lidbury, J.S. Suchodolski, M. Brand, T. Moyers, L. Emery, **K. Tolbert**. A Prospective, Placebo-Controlled Pilot Evaluation of Oral Omeprazole on Serum Calcium, Magnesium, Cobalamin, Gastrin Concentrations, and Bone in Cats. *JVIM.* 2016;30(3):779-86 (mentoring and corresponding author).
9. **Tolbert MK**, Gould E, Brand M. Cysteine protease inhibitors ameliorate feline *Tritrichomonas foetus*-induced intestinal epithelial cytopathogenicity. *AJVR.* 2016;77(8):890-7. (mentoring and corresponding author).
10. Pasciak AS, Nodit, L, Bourgeois AC, Paxton BE, Coan PN, Clark CT, **Tolbert MK**, Adams JK, Arepally A, Bradley YC. How sensitive is the upper gastrointestinal tract to Yttrium 90 radioembolization? A histologic and dosimetric analysis in a porcine model. *J Nucl Med.* 2016.
11. Pasciak AS, Bourgeois AC, Paxton BE, Nodit, L, Coan PN, Kraitchman D, Stinnett SS, Patel VM, Fu Y, Adams JK, **Tolbert MK**, Lux CN, Arepally A, Bradley YC. Bariatric radioembolization: A pilot study on technical feasibility and safety in a porcine model. *J Vasc Interventional Rad.* 2016.
12. **Tolbert MK**, Graham A, Odunayo A, Price J, Steiner JM, Newkirk K, Hecht S. Repeated Famotidine Administration Results in a Diminished Effect on Canine Intragastric pH Over Time. *JVIM.* 2017;31:117-123. (mentoring and corresponding author). ***2017 Top 20 most downloaded JVIM paper.
13. Howard J, Fisher J, **Tolbert MK**. Invasive tracheal neoplasia in eight cats: descriptive cases and review of the current literature. *JFMS Open Reports.* 2017. February 1. <https://doi.org/10.1177/2055116917690074>
14. Gould E, Giannone R, Kania S, **Tolbert MK**. Cysteine protease 30 (CP30) corresponds to adhesion and cytopathogenicity in feline *Tritrichomonas foetus*. *Vet Parasit.* 2017;244:114-122. (mentoring and corresponding author). *UT CVM Phi Zeta winning manuscript
15. **Tolbert MK**, Olin S, MacLane S, Gould E, Steiner JM, Vaden S, Price J. Evaluation of gastric pH and serum gastrin concentrations in cats with chronic kidney disease. *JVIM.* 2017;31(5):1414-1419 (primary and corresponding author)
16. Gould E, Corbeil L, Kania S, **Tolbert MK**. Evaluation of surface antigen TF1.17 in feline *Tritrichomonas foetus* isolates. *Vet Parasit.* 2017;244:144-153. (mentoring and corresponding author).

17. Schmid S, Suchodolski J, Price J, **Tolbert MK**. Omeprazole minimally alters the fecal microbial community in six cats: A pilot study. *Front. Vet. Sci.*, 16 April 2018. (mentoring and co-corresponding author).
18. Gould E, Klos J, Harris T, Vaden S, Price J, **Tolbert MK**. Retrospective analysis of the effect of acid suppressant therapy on clinicopathologic parameters of cats with chronic kidney disease. *JFMS*. 2018;20(6):520-527. (mentoring and corresponding author).
19. Golly E, Odunayo A, Daves M, Vose J, Price J, Hecht S, Steiner JM, Hillsman S, **Tolbert MK**. The frequency of oral famotidine administration influences its effect on gastric pH in cats over time. *JVIM*. 2019;33(2):544-550. doi: 10.1111/jvim.15430. (mentoring and corresponding author).
***2018/2019 Top 10% most downloaded JVIM paper.
20. J Vose, A Odunayo, J Price, M Daves, J Schildt, **MK Tolbert**. Comparison of heparinized saline and 0.9% sodium chloride for maintaining central venous catheter patency in healthy dogs. *Peer J*. 2019. doi: 10.7717/peerj.7072.
21. Hedges K, Odunayo A, Hecht S, Price J, **MK Tolbert**. Evaluation of the effect of a famotidine constant rate infusion on intragastric pH in healthy dogs. *J Vet Int Med*. 2019; 33(5):1988-1994. <https://doi.org/10.1111/jvim.15558> (mentoring and co-corresponding author).
22. Dickson R, Vose J, Bemis D, Daves M, Cecere T, Gookin J, Steiner J, **Tolbert MK**. The effect of enterococci on feline *Tritrichomonas foetus* infection in vitro. *Vet Parasit* 2019;273:90-96 <https://doi.org/10.1016/j.vetpar.2019.08.012> (mentoring and corresponding author).
23. Kuhl A, Odunayo A, Price J, Hecht S, Marshall K, Steiner J, **Tolbert MK**. Comparative Analysis of the Effect of Intravenously Administered Acid Suppressants on Gastric pH in Dogs. *J Vet Int Med*. 2020;34:678-83. <https://doi.org/10.1111/jvim.15718> (mentoring and co-corresponding author).

II. REVIEWS CONTAINING ORIGINAL RESEARCH:

24. **Tolbert MK**, Gookin JL. Mechanisms of feline *Tritrichomonas foetus* pathogenicity with insights from venereal trichomonosis. *JVIM*. 2016;30:516-26.
25. Marks S, Kook P, Papich M, **Tolbert MK**, Willard M. Consensus statement: Support for rational administration of gastrointestinal protectants to dogs and cats. *JVIM*. 2018;32:1823-1840.
***2018/2019 Top 10% most downloaded JVIM paper.

III. CASE REPORTS:

26. **Tolbert, K**, Brown H, Rakich P, Radlinsky M, Ward C. Dermoid cysts presenting as enlarged thyroid glands in a cat. *J Fel Med & Surg*. 2009; 11(8):717-9.
27. **Tolbert MK**, Odunayo A, Craig L. Gastric perforation following endoscopic removal of a Bravo pH capsule in a cat. *J Feline Med & Surg*. 2015;17:562-4. (mentoring and corresponding author).
28. Lane M, Larson J, Hecht S, **Tolbert MK**. Medical management of gastrinoma in a cat. *J Feline Med & Surg Open Reports*. 2016. (mentoring and corresponding author).
29. Lane M, Larson J, Stokes J, **Tolbert MK**. Continuous radiotelemetric monitoring of intragastric pH in a dog with peptic ulceration. *JAVMA*. 2017;250:530-533. (mentoring and corresponding author).

IV. INVITED REVIEWS:

30. **Tolbert MK**, Gookin JL. *Tritrichomonas foetus* infection – a new agent of feline diarrhea. *Compend Contin Educ Pract Vet* 2009; 31:374-381.
31. **Tolbert, MK** and Ward CR. Feline Thyroid Storms: Rapid recognition of potential cases to improve patient survival. *Compend Contin Educ Vet*. December 2010:E1-E6.
32. Howard J, **Tolbert MK**. Feline tracheal tumors: Uncommon or under recognized? *Clin Brief*. May 2015. (mentoring and corresponding author).
33. Parkinson S, **Tolbert MK**. Hematochezia in a dog. *Clin Brief*. July 2016.
34. Olin S, **Tolbert MK**. Starting off right: Checklists are essential for a good history. *Vet Team*. September. 2016.
35. Olin S, **Tolbert MK**. Starting off right: A good gastrointestinal history. *Vet Team* October. 2016.
36. Olin S, **Tolbert MK**. Starting off right: A good history to help identify pain. *Vet Team Brief* November/December. 2016.
37. E Gould, **Tolbert MK**. Top 5 Recommendations for Using Acid Suppressants Effectively. *Clinician's Brief*. November 2016.
38. Gould E, **Tolbert MK**. *Tritrichomonas foetus* infection in cats. *Clin Brief*. April 2017.
39. Jordan L, **Tolbert MK**. Hypocobalaminemia. *Clin Brief*. July 2018.
40. Hillsman S, **Tolbert MK**. Differential Diagnoses: Regurgitation. *Clin Brief*. July 2018.
41. Hillsman S, **Tolbert MK**. Differential Diagnoses: Epistaxis. *Clin Brief*. August 2018
42. Hillsman S, **Tolbert MK**. Differential Diagnoses: Hypoglycemia. *Clin Brief*. September 2018.
43. Hillsman S, **Tolbert MK**. Differential Diagnoses: Increased or Decreased Total Thyroxine. *Clin Brief*. September 2018.
44. **Tolbert MK**. Canine Inappetence: Are we treating it appropriately? *Clin Brief*. November 2018.
45. **Tolbert MK**. Understanding GI Testing. *Clin Brief*. September 2019.
46. **Tolbert MK**. Elevated BUN After Chemotherapy. *Clin Brief*. October 2019.

PUBLICATIONS (ABSTRACTS AND PROCEEDINGS) (other than those listed above):

1. **Tolbert MK**. Rational selection and use of acid suppressant medications. 33rd ACVIM Annual Forum Proceedings. Indianapolis, Indiana. 2015.
2. **Tolbert MK**. Adopting best practices: Rational therapy for gastrointestinal ulceration and erosion. 35th ACVIM Annual Forum Proceedings. National Harbor, MD. 2017.
3. **Tolbert MK**. Diagnosis and management of GI bleeding in dogs. 37th ACVIM Annual Forum Proceedings. Phoenix, AZ. 2019.

RESEARCH FEATURED ARTICLES AND MEDIA (other than those listed above):

1. Purina Proplan Cat Update Spring 2018: Chronic Diarrhea Caused by *T. foetus* Infection by Barbara Fawver
2. What research is saying about how the community of gut microbes may affect the health of feline and canine patients By Maureen Blaney Flietner
3. PurrPodcast. Jan 11, 2019. Episode 15: Dr. Katie Tolbert takes the sting out of gastric acid suppressants in cats. <https://purrpodcast.net/2019/01/11/episode-15-dr-katie-tolbert-takes-the-sting-out-of-gastric-acid-suppressants-in-cats-part-1/>
4. PurrPodcast. Jan 26, 2019. Episode 16: Dr. Katie Tolbert takes the sting out of gastric acid suppressants in cats. <https://purrpodcast.net/2019/01/26/episode-16-part-two-of-our-chat-with-dr-katie-tolbert-about-rational-use-of-gastric-protectants-in-cats/>
5. Fresh Scoop. April 15, 2019. Morris Animal Foundation Podcast. Episode 7: Understanding control of gastric acid secretion in dogs and cats. <https://www.morrisanimalfoundation.org/article/episode-7-understanding-control-gastric-acid-secretion-dogs-and-cats>
6. VETgirl Veterinary Continuing Education Podcasts. July 15, 2019. The use of antacids in veterinary medicine. <https://vetgirlontherun.com/#>

BOOK CHAPTERS

1. **Tolbert MK.** Gastrointestinal Endoscopy. In Textbook of Veterinary Internal Medicine. 8th Edition. 2017. Eds. Ettinger, Feldman, Cote. Elsevier, Inc. pp. 437-440.
2. **Tolbert MK.** Feline Trichomonosis. In Lane IF and Stokes J, eds. Veterinary Medicine. New York: Decision Support in Medicine, LLC. 2017. Accessed at <https://www.decisionsupportinmedicine.com>.
3. **Tolbert MK.** Case examples. Small Animal Abdominal and Metabolic Diseases. CRC Press. 2019.
4. **Tolbert MK.** Melena. Cote's Clinical Veterinary Advisor. Elsevier, Inc. 2019.
5. **Tolbert MK.** Hematochezia. Cote's Clinical Veterinary Advisor. Elsevier, Inc. 2019.
6. **Tolbert MK.** Fecal Incontinence. Cote's Clinical Veterinary Advisor. Elsevier, Inc. 2019.
7. **Tolbert MK.** Gastroprotectants. Kirk & Bonagura's Current Veterinary Therapy XVI. Elsevier, Inc. *In press.*

RESEARCH AND OTHER EXTERNAL SUPPORT:

1. Jones, S (PI). NIH T32 OD011130 Comparative Medicine and Translational Research Training Program Grant, 2010-2013. Salary stipend, benefits, and student tuition for 3 years. *T32 Trainee.* Completed.
2. **Tolbert MK,** Gookin JL Center for Comparative Medicine and Translational Research Training Pilot Grant, 2010-2011. A novel three-dimensional approach for the culture of primary intestinal epithelial cells – \$15,000. *Principal investigator.* Completed.
3. **Tolbert K,** Bissett S. Comparative Gastroenterology Society, 2009-2010. Efficacy of omeprazole formulations for the control of intragastric pH in dogs – \$7967.28. *Co-principal investigator.* Completed and published in JVIM.

4. Gookin JL, Magness ST, **Tolbert MK**. Waltham Foundation, 2011-2012. A transformative in vitro model of the intestinal epithelium for advancement of feline gastroenterology – \$15,000. *Co-principal investigator*. Completed.
5. **Tolbert MK (PI)**, Martin-Jimenez T, Davidson G, Peters E, Cox S, Reed A. Companion Animal Fund, 2013-2014. Preliminary investigation into the efficacy of oral acid suppressants in cats-\$4000. *Principal investigator*. Completed. Pilot data led to securement of grant awarded by CGS (#7).
6. **Tolbert MK (PI)**, Gookin JL. Center of Excellence in Livestock Diseases and Human Health, 2013-2014. Modeling the intestinal epithelium through recapitulation of the intestinal stem cell niche-\$14,900. *Principal investigator*. Completed. Led to collaboration with Dr. Jason Spence at the University of Michigan. Project ongoing.
7. **Tolbert MK (PI)** Morris Animal Foundation, 2013-2014. (D14FE-302) Cysteine Proteases: Novel Molecular Targets for Pharmacologic Control of Feline Trichomonosis-\$48,322. *Principal investigator*. Completed and published in AJVR.
8. Parkinson S, **Tolbert MK (Co-PI)**, et al. Comparative Gastroenterology Society, 2014-2015. Analysis of oral acid suppressants for treatment of feline acid related disorders-\$8000.00. *Mentoring author*. Funded and published in JVIM.
9. Parkinson S. Comparative Gastroenterology Society, 2015. Travel award to Parkinson for attendance of 2015 to speak on mutual research project. GutSea-\$1500.00. (Tolbert: faculty research mentor).
10. Gould E. Comparative Gastroenterology Society, 2015. Travel award to Gould for attendance of 2015 Digestive Disease week conference-\$1500.00. (Tolbert: faculty research mentor).
11. **Tolbert MK (PI)**, Clements C, Giori L, Witzel A, Reed A. UTK Companion Animal Fund, Evaluation of the Effect of Omeprazole Administration on Electrolyte Metabolism and Bone Homeostasis in Cats-\$4000 (2015-2016). Completed. Published in JVIM.
12. **Tolbert MK (PI)**, Gould E. Winn Feline Foundation, Identification and investigation of feline *Tritrichomonas foetus* surface antigens as a target for diagnosis and treatment-\$16,000 (2015-2016). Completed. Published in Veterinary Parasitology.
13. **Tolbert MK (PI)**, Olin S, MacLane S. Companion Animal Fund, How much does it burn? A pilot study evaluation of gastric acidity in cats with CKD-\$3417 (2015-2016). Ongoing. Pilot data led to securement of grant awarded by ACVIM Foundation (#16).
14. Lane M. Travel award to Lane for attendance of 2016 CGS GutSki for presentation of mutual research-\$1500.00. (Tolbert: faculty research mentor).
15. Cekanova M, **Tolbert MK (Co-I)**, Gerhold R, Fecteau K, Giori L. UTK Center of Excellence. Amersham Imager 600RGB equipment matching support. \$21,000 (2015).
16. **Tolbert MK (PI)**. George Sydney and Phyllis Redman Miller Trust Grant. Targeting feline Trichomonosis: Identification and evaluation of the role of CP30 in feline *Tritrichomonas foetus* cytopathogenicity. \$21,775.00 (2016-2017). Completed. Published in Veterinary Parasitology.
17. **Tolbert MK (PI)**, Olin S, MacLane S, Vaden S. ACVIM Veterinary Pharmacology Grant. Are acid suppressants indicated in cats with CKD? \$15,141.60 (2016-2017). Completed. Published in JVIM.
18. **Tolbert MK (PI)**, Graham A, Odunayo A. Companion Animal Fund. Does prolonged famotidine lead to a diminished effect in dogs? \$4000 (2016-2017). Completed. Completed. Published in JVIM.

19. **Tolbert MK (PI)**, Gould E. Center of Excellence in Livestock Diseases and Human Health. Development of a rapid, point-of-care ELISA for detection of bovine *Tritrichomonas foetus*. \$15,000. (2016-2017). Money approved for transfer to Gould PhD project on mast cells.
20. Lennon E, Cekanova M, **Tolbert (Co-I)**. Center of Excellence in Livestock Diseases and Human Health. Olympus IX73 Fluorescent microscope equipment matching support. \$26,787.
21. Schmid S. Travel award to Schmid for attendance of 2017 CGS GutSea for presentation of mutual research-\$1500.00. (Tolbert: faculty research mentor).
22. **Tolbert MK (PI)**, Odunayo A. Companion Animal Fund. Evaluating the effects of oral famotidine dosing frequency in cats. \$4000 (2017-2018). Award let to securing grant #23.
23. **Tolbert MK (PI)**, Gookin J (co-I), Dickson R (co-I). Winn Feline Foundation (W17-018). Evaluating the effect of probiotic therapy on feline *Tritrichomonas foetus* infection. \$17,864. (2017-2018). Completed. Published in Veterinary Parasitology.
24. **Tolbert MK (PI)**, Odunayo A (Co-PI), Hecht S (Co-I). Winn Feline Foundation (W17-017). Evaluating the effect of prolonged famotidine administration in cats. \$19,668. (2017-2018). Completed. Published in JVIM.
25. **Tolbert MK (PI)**, Quimby J. Morris Animal Foundation. Evaluation of the Effect of Omeprazole on Clinical Signs in CKD Cats. \$23,157. (2017-2019). Ongoing.
26. Golly E. Travel award to Golly for attendance of 2018 CGS GutSki for presentation of mutual research-\$1500.00. (Tolbert: faculty research mentor).
27. **Tolbert MK (PI)**, Vose J. Comparative Gastroenterology Society. Investigation of Enterococci probiotic therapy on *Tritrichomonas foetus* infection. \$8000. (2018; to support summer student stipend, Vose). Completed. Published in Veterinary Parasitology.
28. Kellerman J, Murphy M, Rollins A, **Tolbert MK (Co-PI)**, Cline M. Royal Canin. Dietary management of mild to moderate feline chronic enteropathy. (2018-2020). Ongoing.
29. Gould E, **Tolbert MK (Co-PI)**, Lennon E. UTK Center of Excellence. Investigation of the gastric pH independent effects of acid suppressants on healthy and neoplastic mast cells in vitro. \$15000. (2018-2019). Completed grant. Project Ongoing.
30. **Kuhl A, Odunayo A, Tolbert MK (collaborator)**. UTK Companion Animal Fund. A Pilot Study Evaluating Intermittent Intravenous Dosing of Pantoprazole and Esomeprazole to a Constant Rate Infusion of Famotidine on Gastric pH In Healthy Dogs. \$5000. (2018-2019). Completed. Manuscript in prep.
31. **Tolbert MK (co-PI)**, Odunayo A, Hecht S, Price J. George Sydney and Phyllis Redman Miller Trust Grant. Evaluating the efficacy of novel gastroprotectants in cats. \$18,080. (2018-2019). Completed. Manuscript submitted to JVIM.
32. Pavlova E, Lidbury, **Tolbert MK (co-mentor)**. ACVIM Resident Research Grant (#652266) and Texas A&M University GINN Fund. Assessment of gastroduodenal ulceration, intragastric pH, and serum gastrin concentrations in dogs with a congenital portosystemic shunt. \$10,000 and \$4959.68, respectively. (2019-2021). Ongoing.
33. Messenger K, **Tolbert MK (co-PI)**, Papich M. AVMF Pain Management Research Foundation grant. The effects of combined carprofen and omeprazole administration on carprofen pharmacokinetics and gastrointestinal permeability in dogs. \$24,486. (2019-2020). Ongoing

34. Mehra J, Lewis M, **Tolbert MK (co-I)**, Bentley T. ACVIM Resident Research Grant and Purdue University Veterinary Clinical Sciences Graduate Grant. The effect of omeprazole on the development of gastrointestinal signs and bleeding in dogs treated surgically for acute thoracolumbar intervertebral disc herniation. \$9915 and 5500, respectively. (1/2019-12/2019). Ongoing.
35. **Tolbert MK** (PI), Birkenheuer A, Vaden S. NCSU CVM Research Grant. The burning truth: Gastric hyperacidity in canine CKD? A pilot study". \$25,000. (7/2019-7-2020). Ongoing.
36. Susie Jones. NIH-T-35 Interdisciplinary Biomedical Research Training Program. Salary and stipend for veterinary student summer research (Tolbert: faculty research co-mentor). Summer 2019. Completed.
37. **Tolbert MK** (PI), Simon B, Papich M, Kathrani A. Miller Trust grant. Cats are Not Dogs: Addressing Drug Failure in Cats. \$21,294. 2020-2021.
38. Papich M, **Tolbert MK** (co-I). NCSU MBS grant. Use of the Smart Pill™ to Evaluate the Conditions that Affect Gastrointestinal Transit in Dogs. \$9,980.08. 2020-2021.
39. Gaier A, Messenger K, **Tolbert MK**. (co-mentoring PI). Comparative Gastroenterology Society. Building consensus: Exploring the adverse effects of co-administration of carprofen and omeprazole in dogs. \$9000. (to support summer student stipend, Gaier). 2020-2021

MEETINGS ATTENDED: (other than those listed above)

1. NIH-funded R24 Network Planning Grant, "The Domestic Dog as a Model System for Aging Research", NIH Canine Longevity Consortium (by invitation). University of Washington, April 1-3, 2014.
2. "Becoming Faculty Workshop" Burroughs Wellcome Fund (by invitation). Cornell University, July 31-August 3, 2014.
3. Digestive Disease Week. Washington, DC. May 16-19, 2015.
4. "GI Key Thought Leaders Roundtable Discussion", Hill's Pet Nutrition (by invitation). May 24-26, 2016. Hill's Pet Nutrition Center, Topeka, KS.

SEMINARS ATTENDED: (other than those listed above)

1. Beyond the Lecture in Veterinary Education: Creating Lifelong Learners, ACVIM Seattle, 1 hour seminar, 2013
2. UT AgResearch Faculty Development Fellows Program: Grants, Research and Compliance, University of Tennessee, 8 hour seminar, February 14, 2014
3. Critical Thinking Workshop, Tennessee Teaching and Learning Staff, University of Tennessee, 5 hour seminar, January, 28, 2014
4. Frank and Feedback Training, Zoetis and UT Social Work, University of Tennessee, 2 day seminar, 2014
5. Flipping the Classroom; Educating the Millennial Veterinary Student; Effective Communication. ACVIM Forum, Indianapolis, 3 hour, 2015
6. Master Teacher Training, University of Tennessee, monthly seminars, 2013-2016
7. Write Winning Grant Proposals. Grant Writers' Seminar and Workshops LLC. University of Tennessee, 1 day seminar, 2016

SERVICE

1. Vets for Pets of Homeless Owners. Companion Animal Initiative in Tennessee. Knoxville, TN. 2014-present.
2. Ad Hoc Reviewer-*American Journal of Veterinary Research*. 2013-present

3. Ad Hoc Reviewer-*Journal of Veterinary Internal Medicine*. 2012-present
4. Ad Hoc Reviewer-*Experimental Parasitology*. 2015-present
5. Ad Hoc Reviewer-*Infection and Immunity*. 2015-present
6. Ad Hoc Reviewer-*Journal of Amer Assoc for Lab Animal Science*. 2015-present
7. Ad Hoc Reviewer-*Acta Veterinaria Scandinavica*. 2015-present
8. Ad Hoc Reviewer-*Journal of Feline Medicine and Surgery*. 2015-present
9. Ad Hoc Reviewer-*Arch Med Vet*. 2016-present
10. Ad Hoc Reviewer-*Vet Parasit*. 2016-present.
11. Ad Hoc Reviewer-*Journal of Small Animal Practice*. 2016-present
12. Ad Hoc Reviewer-*Journal of Veterinary Pharmacology and Therapeutics*. 2016-present
13. Ad Hoc Reviewer-*Canadian Veterinary Journal*
14. Ad Hoc Reviewer-*Journal of Veterinary Emergency and Critical Care*. 2020-present
15. CGS and ACVIM Reviewer for ACVIM Forum GI abstract presentations. 2013-present

OTHER INFORMATION:

Consultant, Texas A&M University, GI Lab, 2017-2018