

## GIGI STRUNK DAVIDSON

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### EDUCATION

University of North Carolina at Chapel Hill <b>B.S. Pharmacy</b>	<b>1983</b>
International College of Veterinary Pharmacy <b>Diplomate</b>	<b>2001</b>

### AWARDS

<b>United States Pharmacopeia Beal Award for Distinguished Volunteer Service</b>	<b>2015</b>
<b>Society of Veterinary Hospital Pharmacists Lifetime Achievement Award</b>	<b>2015</b>
<b>North Carolina State University Ned E. Huffman Leadership Award</b>	<b>2014</b>
<b>United States Pharmacopeia Award for Outstanding Contributions to the Standards-setting Process</b>	<b>2013</b>
<b>Preceptor of the Year—UNC Eshelman School of Pharmacy</b>	<b>2010</b>
<b>Wake Allied Health Education Centers—Overall Preceptor of the Year</b>	<b>2010</b>
<b>American College of Veterinary Pharmacists Bill Bradley Award for Exceptional Service Veterinary Pharmacy</b>	<b>2007</b>
<b>Phi Zeta, Psi Chapter, Honorary Induction for Exceptional Contributions for Non-Veterinarians, NC State Univ</b>	<b>2006</b>
<b>NC State University Outstanding Service Award</b>	<b>2003</b>
<b>Campbell University College of Pharmacy &amp; Health Sciences, Preceptor of the Year</b>	<b>2002</b>
<b>NC State University Distinguished Service Award</b>	<b>1997</b>
<b>NC State University Distinguished Performance Award</b>	<b>1992</b>
<b>Pfizer Award for Excellence in Community Pharmacy</b>	<b>1983</b>

### PROFESSIONAL EXPERIENCE

NC State University College of Veterinary Medicine <b>Director of Clinical Pharmacy Services</b>	<b>1992-present</b>
NC State University College of Veterinary Medicine <b>Veterinary Clinical Pharmacist</b>	<b>1983-1992</b>
Wingate University School of Pharmacy <b>Clinical Associate Professor of Pharmacy Practice</b>	<b>2006-present</b>
University of Pittsburgh School of pharmacy <b>Clinical Associate Professor of Pharmacy and Therapeutics</b>	<b>2011 - present</b>
Virginia Commonwealth University School of Pharmacy <b>Clinical Associate Professor of Pharmacy Practice</b>	<b>2011 – present</b>
Findlay University College of Pharmacy <b>Clinical Associate Professor of Pharmacy Practice</b>	<b>2011-present</b>
East Tennessee State University Gatton College of Pharmacy	<b>2012-present</b>

**Clinical Associate Professor of Pharmacy Practice**

## RELATED EXPERIENCE

<b>United States Pharmacopeia Compounding Expert Committee</b>	<b>2003-present</b>
Chair	2010-present
Member	2003- 2010
<b>United States Pharmacopeia Council of Experts</b>	<b>2010-present</b>
<b>United States Pharmacopeia Veterinary Drugs Expert Committee</b>	<b>2003-2010</b>
<b>United States Pharmacopeia Veterinary Medicine Expert Committee</b>	<b>2003-2005</b>
<b>United States Pharmacopeia Veterinary Medical Pharmacopeia Ad Hoc Advisory Panel</b>	<b>2006</b>
<b>FDA Pharmacy Compounding Advisory Committee</b>	<b>2014-present</b>
<b>Accreditation Commission for Health Care Pharmacy Advisory Group</b>	<b>2015-present</b>
<b>American College of Veterinary Pharmacists</b>	<b>2014-present</b>
Board of Directors	
<b>Society of Veterinary Hospital Pharmacists</b>	<b>1983-present</b>
Ruling Council	1998-present
Government and Regulatory Affairs Liaison	2012-present
Annual Symposium Program Chair	1987, 1990, 1997, 1998,
2013	
President	1998-2002
President Elect	1998-2002
Secretary	1990
Poster Session Chair	2010-2013
<b>American Veterinary Medical Association</b>	<b>2001-present</b>
Working Group on Prescribing, Compounding and Dispensing, ad hoc expert	
<b>Food and Drug Administration, Center for Veterinary Medicine</b>	
Task Force on Compounding in Veterinary Medicine	<b>1992-3</b>
Ad Hoc Committee on Compounding for Animal Patients CPG	<b>2003</b>
<b>North Carolina Board of Pharmacy –Compounding Work Group</b>	<b>2004-present</b>
<b>North Carolina Board of Pharmacy—USP &lt;800&gt; Work Group</b>	<b>2017</b>
<b>International Journal of Compounding Pharmacy –Veterinary Contributing Editor/Author</b>	<b>2000-present</b>
<b>Compendium of Education for the Practicing Veterinarian, Pharm Profile, Editor</b>	<b>1998-2004</b>
<b>Wake County Pharmaceutical Association</b>	<b>1987-1989</b>

Secretary

OTHER RELATED EXPERIENCE

<b>Faculty Advisor, Veterinary Pharmacy Club, Campbell University School of Pharmacy present</b>	<b>2004-</b>
<b>Faculty Advisor, Veterinary Pharmacy Special Interest Group, UNC Eshelman School of pharmacy present</b>	<b>2013-</b>
<b>Faculty Consultant American College of Veterinary Pharmacists present</b>	<b>1999-</b>
<b>Faculty Mentor, PGY1 Residency, Veterinary Clinical Pharmacy</b>	<b>2010-present</b>
<b>Preceptor, PY4 Pharmacy students</b>	<b>1989-present</b>
University of North Carolina Eshelman School of Pharmacy Campbell University School of Pharmacy Wingate University School of Pharmacy Virginia Commonwealth University School of Pharmacy Shenandoah University School of Pharmacy Medical University of South Carolina School of Pharmacy South Carolina College of Pharmacy Findlay University School of Pharmacy University of Pittsburgh School of Pharmacy Gatton College of Pharmacy, East Tennessee State University Midwestern College of Pharmacy Creighton University School of Pharmacy University of New England College of Pharmacy Presbyterian College of Pharmacy	
<b>Preceptor, Veterinary Students</b>	<b>1987-present</b>
<b>Allied Health Educational Centers Advisory Committee</b>	<b>1997-present</b>
<b>Chatham Animal Education and Rescue (CARE) Board of Directors</b>	<b>2013-2017</b>
<b>Faculty Advisor, NC State Equestrian Team</b>	<b>2007-2009</b>

PROFESSIONAL MEMBERSHIPS

**Society of Veterinary Hospital Pharmacists**

**American College of Veterinary Pharmacists**

**American Society of Health Systems Pharmacists**

**American Pharmacists' Association**

**American College of Veterinary Pharmacists**

**North Carolina Association of Pharmacists**

**International Academy of Compounding Pharmacists**

**NC State Beekeepers Association****Chatham County Beekeepers Association**

## RESEARCH FOCUS

Effects of global climate change on human, animal and environmental health; safety and efficacy of analgesic regimens; safety and efficacy of ophthalmic drugs and dosage forms; pharmacokinetics, efficacy and safety of transdermally administered drugs; efficacy, safety and stability of compounded dosage forms; bioavailability of targeted gut-release dosage forms in cats

## PUBLICATIONS AND RESEARCH

## RESEARCH

Tou, SL, Woodruff K, Davidson GS. Safety and Efficacy of Transdermally Administered Pimobendan in Cats Mark Morris Foundation, 2014-present

DeFrancesco, TC, Davidson GS, Tou SL. Bilateral Lysis of Aortic Saddle Thrombus with early TPA. NC State University, 2014-present

Massey G, Davidson GS, Flammer K. Pharmacokinetics and pharmacodynamics of a long acting voriconazole injection for oiled sea birds. Oiled Wildlife Care Network, 2010-present

Marks S, Perry L, Davidson G. Purity, Strength, Identity and Quality of Compounded Ronidazole Capsules. UC Davis, 2012-present

Tolbert MK, Davidson G. Bioavailability and Efficacy of Omeprazole Formulations in cats. Winn Foundation 2013 (ACVIM 2014 Abstract)

Lascelles D, et al. Evaluation of the Pain-Relieving Effects of NV-01 in dogs suffering from osteoarthritis-associated pain. Nextvet 2013

Davidson G, Patel M, Aber DS. Extended stability and sterility of compounded guaifenesin 5% injection for equine anesthesia. 2013

Davidson G, Hoffman C, Jacob M. Evaluation of labeled contents of companion animal probiotic products as determined by microbiological culture. 2013

Hauck M, et al. GCP Pilot Dose Escalation Field Safety/Efficacy Study of Novartis BGT-226 in canine lymphoma. Novartis 2012-present

## Textbooks:

Davidson G, Jordan D. *Veterinary Pharmacy Practice*. Remington: The Science and Practice of Pharmacy. 23<sup>rd</sup> ed. Loyd Allen, ed. (2012)

Davidson G. *Veterinary Pharmacy* in Veterinary Pharmacology and Therapeutics, 10<sup>th</sup> Ed. Jim Riviere and Mark Papich, eds.. (2009)

Davidson G. *Veterinary Pharmacy Practice* in A Practical Guide to Contemporary Pharmacy Practice, 3<sup>rd</sup> ed. Judith Thompson and Lawrence Davidow, eds. (2009)

Davidson G. Plumb D. The Veterinary Drug Handbook, Client Information Edition, 2003, Blackwell Scientific Publications, Oxford, England.

On-Line/Live Courses:

Davidson G. PACE 807, Veterinary Pharmacotherapy. UNC Eshelman School of Pharmacy, 15 week, 3.0 credit hours, PY3 PharmD students Spring. (2014-2018)

Davidson G. Veterinary Pharmacotherapy Certificate Program, PowerPAK, 10 module course. 22 CEU contact hours.

Davidson G, Jordan D. Providing Care and Compounds for Veterinary Patients. P\*Ceutics Institute, 12 week course. 2 credit hours for undergraduate pharmacy students enrolled in a college of pharmacy.

Davidson G, Jordan D. Providing Care and Compounds for Veterinary Patients. PCCA Institute, 4 week course. 24 continuing education credit hours for practicing pharmacists.

Davidson G, Veterinary Pharmacy Elective, Findlay University College of Pharmacy, 15 week, 2.0hr credit course, PY2, PY3 PharmD candidates.

Publications:

Young, N., Royal, K., Lovee, B. and Davidson, G., 2018. Baseline knowledge of potential pet toxins among the US general public. *Journal of Applied Animal Welfare Science*, pp.1-10.

Young, N. W., Royal, K., & Davidson, G. S. (2017) Baseline knowledge of potential pet toxins: a survey of pharmacists. *Pharmacy Practice*, 1058-1058.

Powers LV, Davidson G. Compounding and Extralabel Use of Drugs in Exotic Animal Medicine. *Vet Clin North Am Exot Anim Pract*. 2018 May;21(2):195-214.

Davidson, G. Veterinary Compounding: Regulation, Challenges, and Resources. *Pharmaceutics* 2017, 9, 5.

Risselada, M., Marcellin-Little, D. J., Messenger, K. M., Griffith, E., Davidson, G. S., & Papich, M. G. (2016). Assessment of in vitro release of carboplatin from six carrier media. *American Journal of Veterinary Research*, 77(12), 1381-1386.

Jacob, Megan E., Davidson G, Papich MG, et al. "Opinions of clinical veterinarians at a US veterinary teaching hospital regarding antimicrobial use and antimicrobial-resistant infections." *Journal of the American Veterinary Medical Association* 247.8 (2015): 938-944.

Eichstadt, L. R., & Davidson, G. S. (2014). To compound or not to compound: a veterinary transdermal discussion. *International journal of pharmaceutical compounding*, 18(5), 366.

Benito J, Hansen B, Depuy V, Davidson GS, Thomson A, Simpson W, Roe S, Hardie E, Lascelles BD. Feline musculoskeletal pain index: responsiveness and testing of criterion validity. *J Vet Intern Med*. 2013 May-Jun;27(3):474-82.

Levine D, Gookin JL, Papich MG, Davidson GS. Twice-daily dosing of RDZ no longer recommended for treatment of intestinal *Tritrichomonas foetus* infection *Journal of Feline Medicine and Surgery* February 2014 16: 198.

Papich MG, Davidson GS, Fortier L. Doxycycline concentration over time after storage in a compounded veterinary preparation. *J Am Vet Med Assoc*. 2013 Jun 15;242(12):1674-8

Benito J, Hansen B, Depuy V, et al. Feline musculoskeletal pain index: responsiveness and testing of criterion validity. *J Vet Intern Med*. May 2013;27(3):474-482.

Papich MG, Levine DN, Gookin JL, Davidson GS, Stagner WC, Hayes RB. Ronidazole pharmacokinetics in cats following delivery of a delayed-release guar gum formulation. *J Vet Pharmacol Ther*. Oct 2012.

Hauck, W. W., & USP Reference Standards Committee. (2012). Primary and Secondary Reference Materials for Procedures to Test the Quality of Medicines and Foods. *Pharmaceutical research*, 29(4), 922-931.

Wernham BG, Trumpatori B, Hash J, et al. Dose reduction of meloxicam in dogs with osteoarthritis-associated pain and impaired mobility. *J Vet Intern Med*. 2011 Nov-Dec 2011;25(6):1298-1305.

Hardie EM, Lascelles BD, Meuten T, Davidson GS, Papich MG, Hansen BD. Evaluation of intermittent infusion of bupivacaine into surgical wounds of dogs postoperatively. *Vet J*. Nov 2011;190(2):287-289.

Hummel J, Grooters A, Davidson G, Jennings S, Nicklas J, Birkenheuer A. Successful management of gastrointestinal pythiosis in a dog using itraconazole, terbinafine, and mefenoxam. *Med Mycol*. Jul 2011;49(5):539-542.

LeVine DN, Papich MG, Gookin JL, Davidson GS, Davis JL, Hayes RB. Ronidazole pharmacokinetics after intravenous and oral immediate-release capsule administration in healthy cats. *J Feline Med Surg*. Apr 2011;13(4):244-250.

K. Close, M. Gerard, G. Davidson, M. Schramme. Successful treatment of infectious (Salmonella type III: 44) polyarthritis and osteomyelitis in a 4-week-old foal. *Equine Veterinary Education* March 2011; 23 (3) 121-126.

Clode A, Davis J, Davidson G, Salmon J, Lafevers H, Gilger B. Aqueous humor and plasma concentrations of a compounded 0.2% solution of terbinafine following topical ocular administration to normal equine eyes. *Vet Ophthalmol*. Jan 2011;14(1):41-47.

Tolbert K, Bissett S, King A, Davidson GS. Efficacy of oral famotidine and 2 omeprazole formulations for the control of intragastric pH in dogs. *J Vet Intern Med*. 2011 Jan-Feb 2011;25(1):47-54.

Trumpatori BJ, Carter JE, Hash J, et al. Evaluation of a midhumeral block of the radial, ulnar, musculocutaneous and median (RUMM block) nerves for analgesia of the distal aspect of the thoracic limb in dogs. *Vet Surg*. Oct 2010;39(7):785-796.

Davis JL, Kirk LM, Davidson GS, Papich MG. Effects of compounding and storage conditions on stability of pergolide mesylate. *J Am Vet Med Assoc*. Feb 2009;234(3):385-389

Mathews KG, Linder KE, Davidson GS, Goldman RB, Papich MG. Assessment of clotrimazole gels for in vitro stability and in vivo retention in the frontal sinus of dogs. *Am J Vet Res*. May 2009;70(5):640-647.

Papich MG, Davidson G, Schnatz RG. Appreciation for study on bromide administration in dogs. *J Am Vet Med Assoc*. Sep 2009;235(6):659; author reply 659.

Lascelles BDX, Gaynor J, Smith ES, Roe SC, Marcellin-Little DJ, Davidson G, Carr J. Evaluation of amantadine as part of a multimodal analgesic regimen for the alleviation of refractory osteoarthritis pain. *Journal of Veterinary Internal Medicine*(2008) 22(1): 53-59

Buur JL, Baynes RE, Yeatts JL, Davidson G, Defrancesco TC. Analysis of diltiazem in Lipoderm transdermal gel using reversed-phase high-performance liquid chromatography applied to homogenization and stability studies. *J Pharm Biomed Anal.* Jun 2005;38(1):60-65.

Davidson G. The compounding controversy: what veterinarians should know to protect themselves and their patients. *J Am Anim Hosp Assoc.* 2003 Jan-Feb 2003;39(1):13-17.

Olivry T, Rivierre C, Jackson HA, Murphy KM, Davidson G, Sousa CA. Cyclosporine decreases skin lesions and pruritus in dogs with atopic dermatitis: a blinded randomized prednisolone-controlled trial. *Vet Dermatol.* Apr 2002;13(2):77-87.

Davidson G. Canine Public Servants: Caring For Drug Detection Dogs. *Int J Pharm Comp*, 2008 Sept/Oct 12(5): 384-90.

Davidson G. Veterinary Compounding For Myasthenia Gravis. *Int J Pharm Comp*, 2008 Sept/Oct 12(5): 398-401.

Davidson G. Equine Anesthesia: Triple Drip. *Int J Pharm Comp*, 2008 Sept/Oct 12(5): 402-404.

Davidson G. Submitting Compelling Case Reports For Drug Therapy In Veterinary Patients. *Int J Pharm Comp*, 2007 Sept/Oct 11(5): 390-5.

Davidson G. Ronidazole For Treating Tritrichomonas Foetus in Cats. *Int J Pharm Comp*, 2006 10(6): 434-35.

Davidson G. Application of Sildenafil for Pulmonary Hypertention in Dogs and Foals. *Int J Pharm Comp* 2006 10(6): 405-8.

Davidson G. Compounding for Feline Herpetic Keratitis. *Int J Pharm Comp*, 2006 10(6): 411-414.

Davidson GS, Painless Control of Controlled Substances, *J Veter Emer Crit Care*, 2005, VOL 15; NUMBER 4, pages 254-260.

Davidson G. Update on Transdermal Medications For Animals. *Int J Pharm Comp*, 2005, May/June 9(3): 178-182.

Davidson G, Vail J. Compounding For Behavior Problems In Animals. . *Int J Pharm Comp*, 2005, May/June 9(3): 185-192.

Davidson G. Compounding Antiangiogenic Cancer Therapy For Animals. *Int J Pharm Comp*, 2005, May/June 9(3): 195-198.

Davidson G. Veterinary Ophthalmic Practice: Therapeutic Considerations and Common Ocular Diseases- Part 3. *Int J Pharm Comp*, 2004, Sept/Oct 8(5):359-64.

Davidson G. Veterinary Ophthalmic Practice: Therapeutic Considerations and Common Ocular Diseases- Part 2. *Int J Pharm Comp*, 2004, Jul/Aug 8(4):277-280.

Davidson G. Veterinary Ophthalmic Practice: Therapeutic Considerations and Common Ocular Diseases- Part 1. Int J Pharm Comp, 2004, May/Jun 8(3):169-174.

Davidson G. Understanding Feline Hyperthyroidism. Int J Pharm Comp, 2003, Sep/Oct, 7(5): 354-8.

Davidson G. Treating Canine Hepatic Disease. Int J Pharm Comp, 2003, May/Jun, 7(3):188-191.

Davidson G. Veterinary Transdermal Medications: A-Z. Int J Pharm Comp, 2003, Mar/Apr, 7(2):106-111.

Davidson G. The Treatment of Canine Atopic Disease. Int J Pharm Comp, 2002, May/June 6(3):210-215.

Davidson G. Navigating New Territories in Compounding For Animal Patients. Int J Pharm Comp, 2002, Sept/Oct, 6(5):324-326.

Davidson G. Evaluating Transdermal Medication Forms for Veterinary Patients, Part 3: Methimazole. Int J Pharm Comp, 2001, July/Aug 5(4):282-3.

Davidson G. Evaluating Transdermal Medication Forms for Veterinary Patients, Part 2. Int J Pharm Comp, 2001, May/June 5(3):214-15.

Davidson G. The American Veterinary Medical Association Compounding Position Statement. Int J Pharm Comp, 2001, May/June 5(3):216-17.

Davidson G. To Benzoate or Not to Benzoate: Cats are the Question. Int J Pharm Comp, 2001, March/April, 5(2):

Davidson G. Evaluating Transdermal Medication Forms for Veterinary Patients, Part 1. Int J Pharm Comp, 2001, March/April, 5(2):

Davidson G. Drugs Banned for Use in Food Animals: An Explanation. Int J Pharm Comp, 2001, March/April, 5(2):

Davidson G. Rhodococcus Equi Pneumonia in Foals. Int J Pharm Comp, 2001, Jan/Feb, 5(1):55-57.

Davidson G. Estrogen Use in Dogs: Indications and Complications. Int J Pharm Comp, 2000, Nov/Dec, 4(6):468-70.

Davidson G. Providing Care for Diabetic Veterinary Patients. Int J Pharm Comp, 2000, Sept/Oct, 4(5):386-9.

Davidson, G. Pharm Profile: Glucosamine and Chondroitin Sulfate. Compendium of Continuing Education For the Practicing Veterinarian, May 2000, 22(5): 454-458.

Davidson, G. Providing Positive Outcomes Through Compounding for Veterinary Cancer Patients, Int J Pharm Comp, 2000, July/Aug 4(4):264-272.

Davidson, G. Pharm Profile: Enalapril maleate. Compendium of Continuing Education For the Practicing Veterinarian, December 1999, 21(12): 1118-21.

Davidson, G. Pharm Profile: Etodolac. Compendium of Continuing Education For the Practicing Veterinarian, June 1999, 21(6): 494-5.

Davidson, G. Narcotic Regulation in the United States: Taking the Pain Out of Analgesic Therapy. *Seminars in Veterinary Medicine and Surgery (Small Animal)* 1997, 12(2): 133-8.

Papich, M, Davidson, G. Unapproved Use of Drugs in Small Animals. In *Current Veterinary Therapy XII*, 1995 WB Saunders, Philadelphia, pp. 48-53.

Degernes, L. Davidson, G. Administration of Total Parenteral Nutrition in Pigeons. *American Journal of Veterinary Research*. 1994, 55(5): 660-5.

Davidson, G. Intervening in Animal Health Care. *American Pharmacy*, 1994, 7:58-9.

Simpson, B, Davidson, G. Concerns about Drug Interactions. *Journal of American Veterinary Medical Association* 1996, 8:1380-1.

Davidson, G. Nutraceuticals: Voodoo or Science? *Veterinary Technician*, 1997 18(2): 109-11.

Davidson, G. FDA Gives Clear Guidance for Compounding. *Veterinary Technician*. 1997, 18(3): 195-201.