



Gigi S. Davidson



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### Title: Stability and Formulation of Compounded Therapies

#### Research emphasis:

Ms. Davidson's primary area of research is formulation and stability of compounded drug prepared for the approximately 80% of medications not commercially available in appropriate forms or dosages for pediatric, geriatric, or veterinary patients. Her research focuses on development of stable and bioavailable compounded dosage forms for use in both human and non-human patients.

#### Application:

- Dosage form development
- Compounded drug stability
- Targeted drug delivery

#### Collaboration potential:

- Investigational drug formulation
- Transdermal drug delivery
- Compounded preparation stability

#### Selected publications:

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

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.

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.

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.