

# Michael W. Wood

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## EDUCATION

- 2010 **Doctor of Philosophy, Immunology**  
North Carolina State University, Raleigh, NC
- 2007 **Diplomate American College of Veterinary Internal Medicine (Small Animal Internal Medicine)**  
North Carolina State University, Raleigh, NC
- 2002 **Doctor of Veterinary Medicine**  
Tufts University School of Veterinary Medicine, North Grafton, MA
- 1997 **Bachelor of Arts, major - Biological Basis of Behavior, concentration - neuroscience**  
University of Pennsylvania, Philadelphia, PA

## EMPLOYMENT HISTORY

- 2014-present **Assistant Professor in Small Animal Internal Medicine**  
University of Wisconsin School of Veterinary Medicine, Department of Medical Sciences, Madison, WI
- 2015-present **Adjunct Assistant Professor in Small Animal Internal Medicine**  
North Carolina State University College of Veterinary Medicine, Department of Clinical Sciences  
Raleigh, NC
- 2013-2014 **Director of Intermittent Hemodialysis**  
North Carolina State University College of Veterinary Medicine, Department of Clinical Sciences  
Raleigh, NC
- 2010-2014 **Clinical Assistant Professor in Small Animal Internal Medicine and Emergency Critical Care**  
North Carolina State University College of Veterinary Medicine, Department of Clinical Sciences  
Raleigh, NC

## CLINICAL TRAINING

- Fall 2012 **Hemodialysis Training Program**  
UC Davis College of Veterinary Medicine, Extracorporeal Therapies Unit, directed by Larry Cowgill  
Davis, CA
- 2003-2006 **Residency in Small Animal Internal Medicine**  
North Carolina State University College of Veterinary Medicine, Department of Clinical Sciences  
Clinician Investigator Program, Raleigh, NC
- 2002-2003 **Rotating Internship in Small Animal Medicine and Surgery**  
Veterinary Referral and Emergency Center / Darien Animal Hospital  
Norwalk / Darien, CT

## RESEARCH TRAINING

- 2006-2010 **NIH/NCSSU CCMTRTP Trainee/Graduate Student in Immunology**  
North Carolina State University College of Veterinary Medicine  
Department of Clinical Sciences, Raleigh, NC  
Advisors: Edward Breitschwerdt, DVM, DACVIM, Gregg Dean, DVM, DACVP, Ph. D.
- Dissertation entitled, "The role of interleukin-6 during the acute phase response to urinary tract infection."

2004-2005

**Laboratory of Edward Breitschwerdt, DVM, DACVIM**

**Clinician Investigator Program**

North Carolina State University College of Veterinary Medicine

Department of Clinical Sciences, Raleigh, NC

- Differential detection of *Bartonella* spp. from EDTA and BAPGM culture media using q-RT-PCR.

**PUBLICATIONS (\* = corresponding author)**

**ORIGINAL RESEARCH/CASE REPORTS**

1. Pritchard JC, Jacob ME, Ward TJ, Parsons CT, Kathariou S, **Wood MW\***. *Listeria monocytogenes* septicemia in an immunocompromised dog. *Vet Clin Path*. In press.
2. Schneider J, Ames M, DiCicco M, Savage M, Atkins C, **Wood M**, Gookin JL. Recovery of normal esophageal function in a kitten with diffuse megaesophagus and an occult lower esophageal stricture. *Journal of Feline Medicine and Surgery*, 2015 Jun; 17(6):557-61.
3. Pritchard JC, Birkenheuer AJ, Hanel RM, **Wood MW\***. Copperhead (Agkistrodon contortrix) envenomation of dogs: 52 Cases (2004-2011). *Journal of the American Animal Hospital Association*, 2014 Sep-Oct;50(5):338-44.
4. Hutchins R, Vaden S, Jacob M, Harris T, Bowles K, **Wood M**, Bailey S\*. Vaginal microbiota of spayed dogs with or without recurrent urinary tract infections. *Journal of Veterinary Internal Medicine*, 2014 Mar;28(2):300-4
5. Hutchins R, Bailey S, Jacob M, Harris T, **Wood M**, Saker K, Vaden S\*. The effect of an oral probiotic containing lactobacillus, bifidobacterium, and bacillus species on the vaginal microbiota of spayed female dogs. *Journal of Veterinary Internal Medicine*, 2013 Nov-Dec;27(6):1368-71.
6. **Wood MW**, Breitschwerdt EB, Nordone SK, Linder KE, Gookin JL\*. Uropathogenic *E. coli* promote a paracellular urothelial barrier defect characterized by altered tight junction integrity, epithelial cell sloughing and cytokine release. *Journal of Comparative Pathology*, 147:11-19, 2012.
7. **Wood MW**, Nordone S, Vaden S, Breitschwerdt E\*. Assessment of urine solute and matrix effects on the performance of an enzyme-linked immunosorbent assay for measurement of interleukin-6 in dog urine. *Journal of Veterinary Diagnostic Investigation*, 23(2):316-320, 2011.
8. **Wood MW**, Breitschwerdt E, Gookin JL\*. Autocrine effects of interleukin-6 mediate acute-phase pro-inflammatory and tissue reparative transcriptional responses of canine bladder mucosa. *Infection and Immunity*, 17(2):708-715, 2011.
9. Minter LJ, **Wood MW**, Hill T, Lewbart G\*. Cystoscopic guided removal of ectopic eggs from the urinary bladder of the Florida cooter turtle (*Pseudemys floridana floridana*). *Journal of Zoo and Wildlife Medicine*, 41(3):503-509, 2010.
10. Diniz PPVD, **Wood M**, Maggi RG, Sontakke S, Stepnik M, Breitschwerdt EB\*. Co-isolation of *Bartonella henselae* and *Bartonella vinsonii* subsp *berkhoffii* from blood, joint and subcutaneous seroma fluids from two naturally infected dogs. *Veterinary Microbiology*, 138: 368-372, 2009.
11. **Wood M**, Vaden S\*, Cerda-Gonzales C, Keene B. Cystoscopic guided balloon dilation of a urethral stricture in a female dog. *The Canadian Veterinary Journal*, 48(6): 731-733, 2007.
12. Pallatto V, **Wood M**, Grindem C\*. What Is Your Diagnosis? Urine Cytology from a Chihuahua. *Veterinary Clinical Pathology*, 24: 425-428, 2005.

**ABSTRACTS**

13. **Wood MW**. Modifying urine glycosaminoglycan concentrations by intramuscular injection of polysulfated glycosaminoglycans in dogs. *Journal of Veterinary Internal Medicine*, 29:1212, 2015 Oral Presentation ACVIM Forum 2015, Indianapolis, IN
14. **Wood M**, Breitschwerdt E, Vaden S, Nordone S. Immunologic testing of dog urine requires neutralization of matrix effects to allow for accurate measurement of IL-6 concentrations. *Journal of Veterinary Internal Medicine*, 24:770, 2010. Poster Presentation ACVIM Forum 2010, Anaheim, CA.
15. **Wood MW**, Gookin J., Breitschwerdt E. Development of a Ussing chamber model for studying the canine urothelial response to infection. *Journal of Veterinary Internal Medicine*, 23:689, 2009. Oral Presentation ACVIM Forum 2009, Montreal, Canada.
16. **Wood M**, Maggi R, Breitschwerdt E. The Use of Pre-Enrichment Media To Enhance Detection and Isolation of *Bartonella* spp. From Dogs. *Journal of Veterinary Internal Medicine*, 19:468, 2005. Poster Presentation ACVIM Forum 2005, Baltimore, MD.

**BOOK CHAPTERS/REVIEW ARTICLES**

17. **Wood MW**. Urinary Tract Infections. In Ettinger SJ, Feldman EC, Cote E (ed): *Textbook of Veterinary Internal Medicine* 8<sup>th</sup> edition, St. Louis, Saunders, in press.

18. **Wood M.** Bartonellosis. In Cote E (ed): *Clinical Veterinary Advisor: Dogs and Cats*. St. Louis, Mosby, Inc, 2007, 2010, 2014 pp 119-121.
19. **Wood M.** Rhinoscopy. In Vaden S (ed): *The 5-Minute Veterinary Consult: Lab and Procedure Handbook*, Wiley-Blackwell, 2009, pp 544-547.
20. **Wood M.** Cystourethroscopy. In Vaden S (ed): *The 5-Minute Veterinary Consult: Lab and Procedure Handbook*, Wiley-Blackwell, 2009, pp 214-216.
21. **Wood M,** Birkenhauer A. Bartonella. In Vaden S (ed): *The 5-Minute Veterinary Consult: Lab and Procedure Handbook*, Wiley-Blackwell, 2009, pp 82-84.
22. **Wood M,** Vaden S. A Case of Renal Failure in the Dog. *Waltham Focus*, vol 15.1:20-27, 2005.

#### AWARDS/RECOGNITIONS

2013	ACVIM Forum 2013 – Top Nephrology/Urology Papers of 2012
2013	Cyrano Lerner Coat of Excellence
2010	Dr. Monica Menard Award for Excellence in Veterinary Pathobiological Research, NCSU-CVM
2006	Silver Animal Bedside Manner Award, NCSU-CVM
2005	American College of Veterinary Internal Medicine Resident Research Award
2004	House Officer of the Year, NCSU-CVM
2002	Phi Zeta National Veterinary Honor Society, Tufts University School of Veterinary Medicine
2002	Richard A. Hersman, DVM Leadership Award, The Massachusetts Veterinary Medical Association

#### PRESENTATIONS/CONTINUING EDUCATION/PROGRESS IN RESEARCH

1. “Modifying urine glycosaminoglycan concentrations by intramuscular injection of polysulfated glycosaminoglycans in dogs”, **ACVIM Forum**, 2015
2. “Writing a Business Plan for Dialysis”, **Advanced Renal Therapies Symposium**, 2014
3. “Understanding Dialysis Adequacy”, **Advanced Renal Therapies Symposium**, 2014
4. “Identifying Pathogenic UTIs”, **North Carolina Veterinary Conference**, 2011
5. “Urothelial barrier changes and the role of interleukin-6 during urinary tract infections”, **Center for Comparative Medicine and Translational Research Symposium**, 2011
6. “Recurrent UTI, intracellular bacteria, & alternate therapies to prevent infection”, **American College of Veterinary Internal Medicine Forum**, 2011
7. “What is a pathogenic UTI?”, **American College of Veterinary Internal Medicine Forum**, 2011
8. “Immunologic testing of dog urine requires neutralization of matrix effects to allow for accurate measurement of IL-6 concentrations”, **ACVIM Forum**, 2010
9. “Development of a Ussing chamber model for studying the canine urothelial response to infection.”, **ACVIM Forum**, 2009
10. “Urothelial response to IL-6 in the acute phase response of urinary tract infections”, **Center for Comparative Medicine and Translational Research Symposium**, 2009
11. “Lower Urinary Tract – Case Discussions”, **NCSU Continuing Education and Outreach**, 2009
12. “Recurrent Urinary Tract Infections”, **NCSU Continuing Education and Outreach**, 2009
13. “Cystourethroscopy: Indications and New Techniques”, **NCSU Continuing Education and Outreach**, 2009
14. “Ex vivo characterization of IL-6 production by the urothelium during urinary tract infections”, **Center for Comparative Medicine and Translational Research Symposium**, 2008
15. “The development of a Ussing chamber model for studying the urothelial response to infection”, Abstract/Poster presentation, **NCSU-CVM Research Symposium**, 2008
16. “Development and utilization of a plasma and urine IL-6 specific canine ELISA for the clinical detection of the acute phase response in systemic and urinary tract disease”, **Center for Comparative Medicine and Translational Research Symposium**, 2007
17. “Litterbox Issues from the Internist’s Point of View”, **NCSU Continuing Education and Outreach**, 2005
18. “The Use of Pre-Enrichment Media To Enhance Detection and Isolation of *Bartonella* spp. From Dogs”, **ACVIM Forum**, 2005

## **AFFILIATIONS**

**American Society of Veterinary Nephrology and Urology  
American Veterinary Medical Association  
Center for Comparative Medicine and Translational Research  
Licensed Wisconsin Veterinarian**