

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel in the order listed for Form Page 2.  
Follow the sample format on for each person. (See attached sample). **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE	
C. A. Tony Buffington		Professor of Veterinary Clinical Sciences	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of California, Davis, CA	DVM	1981	Veterinary Medicine
University of California, Davis, CA	MS	1982	Nutrition
University of California, Davis, CA	PhD	1988	Nutrition
American College of Veterinary Nutrition	Diplomate	1989	Nutrition

**A. Positions and Honors.****Positions and Employment**

1981 – 1985 Adjunct Instructor, School of Veterinary Medicine, U C Davis, CA.  
 1983 – 1987 Clinical Nutritionist (Resident), Veterinary Medical Teaching Hospital, UC Davis, CA  
 1985 – 1987 Postdoctoral Fellow in Clinical Nutrition, School of Medicine, UC Davis, CA  
 1987 – 1993 Ass. Professor, Dept. of Vet. Clin. Sci., Coll. of Vet Med., The Ohio State University  
 1993 – 1997 Assoc. Professor, Dept. of Vet. Clin. Sci., Coll. of Vet Med., The Ohio State University  
 1997 – Present Professor, Dept. of Vet. Clin. Sci., Coll. of Vet Med., The Ohio State University

**Other Experience and Professional Memberships**

1988 – Present American Society for Clinical Nutrition  
 1990 – 1991 President, Ohio Society for Parenteral and Enteral Nutrition  
 1990 – 1992 Examination committee, American College of Veterinary Nutrition  
 1992 – Present NIH External advisory committee for the Interstitial Cystitis Database  
 1997 – Present International Association for the Study of Pain  
 1998 – Present Society for Neuroscience  
 1998 – Present Ad hoc member of NIDDK Urology SEP  
 1999 – Present Executive committee, American College of Veterinary Nutrition

**Honors**

1992 Ohio Society of Parenteral and Enteral Nutrition Service Award  
 1995 Veterinary Clinical Sciences Faculty Recognition Award  
 2001 Bourgelat Award of the British Small Animal Veterinary Association for “really outstanding contributions to the field of small animal practice.”  
 2002 American veterinary Medical Association – Council on Education  
 2002 Dean’s Teaching Excellence Award for Graduate teaching  
 2002 – 2006 NIDDK Urology Special Emphasis panel study section

**B. Selected peer-reviewed publications (in chronological order).**

1. **Buffington CAT**, Chew DJ. Intermittent alkaline urine in a cat fed an acidifying diet. JAVMA 1996;209:103-104.
2. **Buffington CAT**, Blaisdell JL, Binns SP, Woodworth BE. Decreased urine glycosaminoglycan excretion in cats with interstitial cystitis. J Urology 1996;155:1801-1804.
3. **Buffington CAT**, Chew DJ. Lower urinary tract disease in cats; New directions. Veterinary Clinical Nutrition 1994;1:52-58.

Principal Investigator/Program Director (Last, First, Middle):

4. **Buffington CAT**, Chew DJ, DiBartola SP. Lower urinary tract disease in cats: is diet still a cause? *JAVMA* 1994;205:1524-1527.
5. **Buffington CAT**. Lower urinary disease in cats: new problems, new paradigms. *J Nutrition* 1994;124:2643S-2651S.
6. Gao X, **Buffington CAT**, Au JLS. Effect of interstitial cystitis on drug absorption from urinary bladder. *JPET* 1994;271:818-823.
7. **Buffington CAT**, Chew DJ, Kendall MS, Scrivani PV, Thompson SP, Blaisdell JL, Woodworth BE. Clinical evaluation of cats with non-obstructive lower urinary tract disease: 109 cases, 1993-1995. *J Am Vet Med Assoc* 1997;210:46-50.
8. **Buffington CAT**, Chew DJ, Woodworth BE. Animal model of human disease; feline interstitial cystitis. *Comp Path Bull* 1997;29:3,6.
9. **Buffington CAT**, Woodworth BE. Excretion of fluorescein in the urine of women with interstitial cystitis. *J Urology* 1997;158:786-798.
10. Scrivani PV, Chew DJ, **Buffington CAT**, Kendall M, Leveille R. Results of retrograde urethrography in cats with idiopathic, nonobstructive lower urinary tract disease and their relationship to pathogenesis: 53 cases (1993-1995). *J Am Vet Med Assoc* 1997;211:741-748.
11. Reche A, **Buffington CAT**. Increased tyrosine hydroxylase immunoreactivity in the locus coeruleus of cats with interstitial cystitis. *J Urol* 1998;159:1045-1048.
12. Wolfe SA, **Buffington CAT**. Effects of interstitial cystitis on bladder tachykinin receptor concentrations in cats. *J Urol* 1998;160:605-611.
13. Scrivani PV, Chew DJ, **Buffington CAT**, Kendall M. Results of double-contrast cystography in cats with idiopathic cystitis: 45 cases (1993-1995). *J Am Vet Med Assoc* 1998;212:1907-1909.
14. Chew DJ, **Buffington CAT**, Kendall MS, DiBartola SP, Woodworth BE. Amitriptyline treatment for idiopathic cystitis in cats (15 cases 1994-1996). *J Am Vet Med Assoc* 1998;213:1282-1286.
15. Markwell PJ, **Buffington CAT**, Chew DJ, Kendall MS, Harte JG, DiBartola SP. Clinical evaluation of commercial acidified diets in the management of idiopathic cystitis in cats. *J Am Vet Med Assoc* 1999;214:361-365.
16. **Buffington CAT**, Chew DJ. Calcium oxalate urolithiasis in cats. *Endourology* 1999;13:659-663.
17. **Buffington CAT**, Chew DJ, Woodworth BE. Feline interstitial cystitis. *J Am Vet Med Assoc* 1999;215:262-7.
18. Lavelle JP, Meyers SA, Ruiz WG, **Buffington CAT**, Zeidel ML, and Apodaca G. Urothelial pathophysiological changes in feline interstitial cystitis: a human model. *Am J Physiol Renal Physiol* 2000;278:F540-F553.
19. Griffith C, Steigerwald E, **Buffington CAT**. Effects of a synthetic facial pheromone (Feliway®) on hospitalized cats. *J Am Vet Med Assoc* 2000;217:1154-1156.
20. **Buffington CAT**. Visceral pain in humans, lessons from animals. *Curr Pain Headache Rep* 2001;5:44-51.
21. **Buffington CAT**, Pacak K. Increased plasma norepinephrine concentrations in cats with interstitial cystitis. *J Urol* 2001;165:2051-2054.
22. Westropp JL, **Buffington CAT**. Animal models and interstitial cystitis (invited review). *J Urol* 2002;167:694-702
23. **Buffington CAT**. External and internal influences on disease risk in cats. *J Am Vet Med Assoc* 2002;220:994-1002.
24. **Buffington CAT**, Teng B, Somogyi, GT. Norepinephrine release and adrenoceptor function in the urinary bladder of cats with interstitial cystitis. *J Urol* 2002;167:1876-1880.
25. **Buffington CAT**. External and internal influences on disease risk in cats. *J Am Vet Med Assoc* 2002;220:994-1002.
26. Birder LA, Barrick S, Roppolo JR, Kanai A, de Groat WC, **Buffington CAT**. Feline interstitial cystitis results in mechanical hypersensitivity and altered ATP release from bladder urothelium. *J Physiol* 2003. (In Press)
27. Westropp JL, Welk KA, **Buffington CAT**. Small adrenal glands in cats with feline interstitial cystitis. *J Urol* 2003. (In Press)

## C. Research Support

### Ongoing Research Support

P50 DK64539 Mayer (PI)

9/30/02 – 8/31/07

NIDDK

Women's Health and Functional Visceral Disorders Center, the Center for Neurovisceral Sciences and Women's Health (C.N.S).

The main focus of the Center is the identification of sex-related factors that play a role in the development, clinical manifestation and treatment of two common visceral pain syndromes; irritable bowel syndrome, and interstitial cystitis. My RO-1 within the Center is entitled Sex and Neuroendocrine Effects on Interstitial Cystitis.

Role: PI

RO1 DK47538 Buffington (PI)

07/01/98 – 6/30/02 (no cost extension until 6/30/03)

NIDDK

Sensory and sympathetic interactions in interstitial cystitis

This study is to identify effective methods to treat interstitial cystitis (IC) based on understanding of its pathobiology gained from studies of a comparable, naturally occurring disease in domestic cats.

Role: PI

RO1 DK57284-01A1 Birder (PI)

12/01/00 – 11/30/04

NIDDK

Role of nitric oxide in interstitial cystitis

The goals of this study are to identify how alterations in NO production may play a role in the pathophysiology of interstitial cystitis (IC) studied in cats with a naturally occurring form of IC (feline interstitial cystitis).

Role: Co-Investigator

Buffington (PI)

9/01/01 – 8/31/03

The Kenneth A. Scott Charitable Trust

Effect of environmental enrichment on disease risk of indoor cats

This study is to identify health risks associated with indoor housing in cats, and to determine if reducing identified risks reduces the recurrence rate of IC in cats.

Role: PI

**Completed Research Support**

F32 DK09958 Westropp (PI)

05/01/99 – 6/01/03

NIDDK

Adrenoceptor Function in Cats with Interstitial Cystitis

This study is to investigate the role of the alpha-2 adrenoceptor in the pathophysiology of cats with feline interstitial cystitis.

Role: Advisor, Co-Investigator