

BIOGRAPHICAL SKETCH

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

NAME Biller, Barbara J.		POSITION TITLE Assistant Professor of Oncology	
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and</i>			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of California, San Diego	B.A.	1985	Biochemistry/Cell Biology
University of Wisconsin, Madison	D.V.M.	1993	Veterinary Medicine
University of Illinois, Urbana	M.S.	1997	Clinical Veterinary Oncology
Colorado State University	Ph.D.	2007	Immunology

A. Professional Experience

1986-1988 Research Technician, DNAX Research Institute, Palo Alto, CA.
 1988-1989 Research Scientist, Product Development, Genentech, Inc. South San Francisco, CA.
 1990-1991 Research Associate, Dept. of Pathobiological Sciences, University of Wisconsin, Madison, WI.
 1993-1994 Internship in Small Animal Medicine and Surgery, Colorado State University, Ft. Collins, CO.
 1994-1997 Residency in Clinical Oncology, University of Illinois, Urbana, IL.
 1998-2003 Oncologist, Denver Veterinary Specialists, Wheat Ridge, CO.
 2002-2004 Senior Scientist, Product Development and Regulatory Affairs, Heska Corporation, Ft. Collins, CO.
 2004-2007 Graduate Research Fellow, Dept of Microbiology, Immunology and Pathology, Colorado State University, Ft. Collins, CO.
 2007-present Assistant Professor of Oncology, Dept. of Clinical Sciences, Colorado State University, Ft. Collins, CO.

Honors, Positions, and Other Professional Activities

Dean's List, Revelle College, University of California-San Diego, 1984-1985
 Summer Scholar, American Association for Cancer Research Workshop in Molecular Biology, 1996
 Veterinary Cancer Society Basic Science Research Award, 1997
 Residency Training Committee, American College of Veterinary Internal Medicine, 2000-2002
 Executive Committee of the Veterinary Cancer Society, 2004-2006
 Outstanding Oral Presentation, 1st Place, CVMBS Research Day, Colorado State University, 2007
 Veterinary Comparative Oncology Editorial Board Member, 2007-present
 Member, American College of Veterinary Internal Medicine
 Member, Veterinary Cancer Society
 Member, American Association of Cancer Research

B. Peer-reviewed Publications (selected, in chronological order)

1. Coffman RL, Shrader BJ, Carty JM, et al: A mouse T cell product that preferentially enhances IgA production. I. Biologic characterization. *Journal of Immunology* 139:3685-3690, 1987.
2. Coffman RL, Lebman DA, Shrader BJ: Transforming growth factor beta specifically enhances IgA production by lipopolysaccharide stimulated murine B lymphocytes. *Journal of Experimental Medicine* 170:1039-1046, 1989.
3. Bond MW, Shrader BJ, Mosmann TR, et al: A mouse T cell product that preferentially enhances IgA production. II. Physiochemical characterization. *Journal of Immunology* 139:3691-3696, 1987.

4. Biller BJ, Kitchell BE, Cadile CD: Evaluation of an assay for detecting telomerase activity in neoplastic tissues of dogs. *American Journal of Veterinary Research* 59:1526 - 1529, 1998.
5. Cadile CD, Kitchell BE, Biller BJ, et al: Telomerase activity as a marker for malignancy in feline tissues. *American Journal of Veterinary Research* 62:1578 – 1581, 2001.
6. *Walter CU, *Biller BJ, Lana SE, Bachand AM, Dow SW: Effects of chemotherapy on immune responses in dogs with cancer. *Journal of Veterinary Internal Medicine* 20(2):342-327, 2006.
(*Note: equal contribution co-author)
7. U'Ren LW, Biller BJ, Elmslie RE, Thamm DH, Dow SW: Evaluation of a novel tumor vaccine in dogs with hemangiosarcoma. *Journal of Veterinary Internal Medicine* 21(1):113-120, 2007.
8. Biller BJ, Elmslie RE, Burnett RC, Avery AC, Dow SW: Use of FoxP3 expression to identify regulatory T cells in healthy dogs and dogs with cancer. *Veterinary Immunology and Immunopathology* 116(1-2):69-78, 2007.
9. Cadile CD, Kitchell BE, Newman RG, Biller BJ, Hetler ER: Telomere length in normal and neoplastic tissues. *American Journal of Veterinary Research* 68: 1386-1389, 2007.
10. O'Neill K, Guth A, Biller BJ, Elmslie RE, Dow SW: Regulatory T cells in dogs with cancer and the influence of tumor type. *Journal of Veterinary Internal Medicine, in revision (8/08)*.

Note: Shrader is my maiden name.

Book Chapters

1. Biller B and Dow S. "Immunotherapy of Cancer", In: Small Animal Clinical Oncology, 4th Edition. Ed., Withrow and Vail D, Elsevier (Saint Louis, MO.) 2007, pp. 211-235.
2. Biller B. "Cancer Immunotherapy for the Veterinary Patient", In: Veterinary Clinics of North America, Small Animal Practice, Elsevier (Saint Louis, MO.) 2007, pp. 1137-49.

C. Research Support

Current Research

American Kennel Club Canine Health Foundation Biller (P.I.) 4/1/07-3/31/09

The Role of Regulatory T Cells in Dogs with Osteosarcoma

These studies are designed to determine whether regulatory T cell numbers are higher in cancer-bearing dogs than in normal dogs and if regulatory T cell numbers change in response to limb amputation or initial chemotherapy in dogs with osteosarcoma.

CSU College Research Council Biller (P.I.) 7/1/08-6/30/09

Metronomic Cyclophosphamide and Piroxicam Therapy for Depletion of Regulatory T Cells in Tumor-bearing Mice

This project will evaluate the effects of low-dose cyclophosphamide and/or piroxicam on regulatory T cells levels in mice with soft tissue sarcoma.

Morris Animal Foundation Biller (P.I.) 9/15/08-9/14/09

Evaluating Metronomic Chemotherapy Using Tumor Biomarkers in Dogs with Soft Tissue Sarcoma

This study will use multiple cellular markers of tumor angiogenesis to evaluate the effectiveness of metronomic dosing of oral cyclophosphamide in dogs with spontaneously occurring soft tissue sarcoma.