Caroline (Piskun) Wood, DVM PhD

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608-334-4782 (personal) 520-888-3177 (Southwest Veterinary Oncology)

CURRENT POSITIONS Clinical Associate Southwest Veterinary Oncology; Tucson AZ	July 2020 – current
Assistant Professor of Veterinary Medicine, Career-Track University of Arizona, College of Veterinary Medicine; Oro Valley, AZ	ebruary 2021 – current
EDUCATION/TRAINING	
Medical Oncology Resident University of Minnesota, Veterinary Medical Center, St Paul, MN	June 2017 – July 2020
Small Animal Medicine and Surgery Intern University of Missouri, Veterinary Health Center, Columbia, MO	June 2016 – June 2017
Doctor of Veterinary Medicine University of Wisconsin, School of Veterinary Medicine, Madison, WI	Aug 2008 - May 2010; Fall 2014 – May 2016
Doctor of Philosophy Dept. of Comparative Biomedical Sciences, University of Wisconsin, Graduate School, Madison, WI	Aug 2010 - July 2014
Bachelor of Arts Dept. of Chemistry & Chemical Biology and Dept. of Biological Sciences; Cornell University, College of Arts and Sciences, Ithaca, NY	Aug 2004 - May 2008
RESEARCH	
Clinical Trial Location Co-Investigator Southwest Veterinary Oncology, Tucson, AZ Animal Clinical Investigations: OV-CLIN-1A, TYM-OSA	July 2020 - current
Residency Research Project Department of Veterinary Clinical Sciences, University of Minnesota, St Paul, MN Principal Investigator: Jaime Modiano, VMD PhD Defining unique DNA methylation patterns for specific dog lymphocyte subsets	Fall 2017 - current

Dissertator (Research Assistant) Department of Comparative Biomedical Sciences, Graduate School, University of Wisconsin-Madison, Madison, WI Principal Investigator: Timothy Stein, DVM PhD DACVIM (Oncology) Impact of Wnt signaling activation in canine osteosarcoma pathogenesis

Research Fellow (Trainee) ICTR TL1 Scholar (NIH CTSA Grant)

School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI Principal Investigator: Timothy Stein, DVM PhD DACVIM (Oncology) Impact of β -catenin inhibition on canine osteosarcoma pathogenesis

Student Researcher (Trainee)

12-month Mentored Research Program (NIH T32 Grant)

School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI Principal Investigator: Timothy Stein, DVM PhD DACVIM (Oncology) Wnt/ β -catenin signaling and differential serum ALP expression in canine osteosarcoma

Visiting Fellow (Trainee)

Veterinary Student Summer Research Fellowship Program (NIH T35 Grant) Department of Comparative Medicine, Stanford University School of Medicine, Stanford CA Principal Investigator: Stefanie Jeffrey, MD Rapamycin treatment in a patient-derived orthotopic xenograft model of triple negative breast cancer

Visiting Research Intern

Siyafunda Makalali Wildlife and Conservation Program, Greater Makalali Private Game Reserve; Hoedspruit, Limpopo Province, South Africa Supervisor: Michael Job, B.Soc.Sc, MBA; Andrews Mtshali Wildlife Conservation and Population Management

Research Assistant

Department of Molecular Biology and Genetics, Cornell University, Ithaca NY Principal Investigator: Tudorita Tumbar, PhD Impact of modulating hair follicle stem cells on epithelial tumorigenesis

TEACHING

July 2020 – current Veterinary Student and Rotating Intern Teaching Curriculum Contributions: College of Veterinary Medicine, University of Arizona Didactic Rounds and Clinical Instruction: Southwest Veterinary Oncology **Resident Teaching** Summer 2018 – July 2020 Department of Veterinary Clinical Sciences, School of Veterinary Medicine, University of Minnesota

Classes: fourth year oncology rotation, clinical sciences and small animal skills labs

Fall 2011 - Fall 2012

Fall 2010 - Fall 2011

Summer 2010

Summer 2009

Fall 2005 - Spring 2008

Teaching Assistant Institute of Clinical and Translational Research, School of Medicine and Public H University of Wisconsin - Madison Class: Nursing 705 Seminar in Interdisciplinary Clinical Research	Summer 2014 Iealth,
Seminar Leader Department of Surgical Sciences, School of Veterinary Medicine, University of Wisconsin - Madison Class: Summer Scholar Ethics Seminars, Subject: Conflict of Interest	Summer 2014
Student Tutor Sp School of Veterinary Medicine, University of Wisconsin, Madison, WI Classes: Molecular and Metabolic Basis of Medicine; Introduction to Veterinary Immunology	oring 2010 – Spring 2013
Teaching Assistant Department of Biological Sciences, Cornell University, Ithaca NY Class: BIOAP 3190 Animal Physiology Experimentation	Spring 2008
Student Tutor Department of Biological Sciences, Cornell University, Ithaca NY Classes: Introduction to Biology, Genetics	Fall 2007 – Spring 2008

PUBLICATIONS

Hoi, C.S., Lee, S.E., Lu, SY., McDermitt D.J, Osorio, K.M., <u>Piskun C.M</u>., Peters R.M., Paus R, and T. Tumbar. Runx1 Directly Promotes Proliferation of Hair Follicle Stem Cells and Epithelial Tumor Formation in Mouse Skin. Mol Cell Bio. 30(10); 2518. 2010. PMID: 20308320

<u>Piskun, C.M.</u>, Muthuswamy, A., Huelsmeyer M.K., Thompson, V., Stein, T.J. Wnt/β-catenin expression does not correlate with serum alkaline phosphatase concentration in canine osteosarcoma patients. PLoS One. 2011;6(10):e26106. Epub 2011 Oct 11. PMID: 22022527

Holmes KE, Thompson V, <u>Piskun CM</u>, Kohnken RA, Huelsmeyer MK, Fan TM, Stein TJ. Canine osteosarcoma cell lines from patients with differing serum alkaline phosphatase concentrations display no behavioral differences in vitro. Vet Comp Oncol. 2013. Epub. PMID:23489774

Szigetvari N, Imai DM, <u>Piskun CM</u>, Rodrigues LCS, Chon E, Stein TJ. Wnt5a expression in canine osteosarcoma. Vet Comp Oncol. Article first published online: 2013 Oct 28.

<u>Piskun, CM.</u>, Stein TJ. B-catenin transcriptional activity is minimal in canine osteosarcoma and its targeted inhibition results in minimal changes to cell line behavior. Vet Comp Oncol. 2013 Nov 21. PMID: 24256430

Zhang H, Cohen AL, Krishnakumar S, Wapnir IL, Veeriah S, Deng G, Coram MA, <u>Piskun CM</u>, Longacre TA, Herrler M, Frimannsson DO, Telli ML, Dirbas FM, Matin AC, Dairkee SH, Larijani B, Glinsky GV, Bild AH, Jeffrey SS. Patient-derived xenografts of triple-negative breast cancer reproduce molecular features of patient tumors and respond to mTOR inhibition. Breast Cancer Res. 2014 Apr 7;16(2):R36. PMID: 24708766

Chon E, Flanagan B, de Sá Rodrigues LC, <u>Piskun C</u>, Stein TJ. 6-Bromoindirubin-3'oxime (BIO) decreases proliferation and migration of canine melanoma cell lines. Vet J. 2014 Jul 31. PMID: 25130776

Rodrigues LC, Holmes KE, Thompson V, <u>Piskun CM</u>, Lana SE, Newton MA, Stein TJ. Osteosarcoma tissues and cell lines from patients with differing serum alkaline phosphatase concentrations display minimal differences in gene expression patterns. Vet Comp Oncol. 2015 Feb 3. PMID: 25643733

ABSTRACTS

C. Hoi, <u>C. Piskun</u>, D. J. McDermitt, R. Peters, R. Paus, T. Tumbar. Epithelial Runx1 loss impairs skin tumorigenesis. Meeting Abstract, 2009 ASCB Meeting, San Diego, CA

<u>Piskun CM</u>, Zhang H, Bild AH, Jeffrey SS. Patient-derived tumor xenograft model of triple negative breast cancer suggests sensitivity to mTOR inhibitors. Poster presentation, 2010 NIH Comparative Biomedical Scientists Training Program Symposium, Bethesda, MD

<u>Piskun, C.M.</u>, Muthuswamy, A., Huelsmeyer M.K., Thompson, V., Stein, T.J. Wnt/ β -catenin expression does not correlate with serum alkaline phosphatase concentration in canine osteosarcoma patients. Poster presentation, 2011 ACVIM Forum, Denver, CO.

Rodrigues LCR, <u>Piskun CM</u>, Thompson V, Stein TJ. Multidrug resistance gene expression by real time PCR in canine osteosarcoma cell lines from dogs with normal and increased serum alkaline phosphatase concentration. Poster Presentation. 2012 ACVIM Forum, New Orleans, LA.

<u>Piskun CM</u>, Thompson V, Hueslmeyer M, Stein TJ. Examining the Canonical Wnt Signaling Pathway in Canine Osteosarcoma. Oral Presentation, 2012 VCS Conference, Las Vegas, NV.

<u>Piskun CM</u>, Thompson V, Hueslmeyer M, Stein TJ. GSK3β Inhibition Reduces Proliferation and Migration in Canine and Human Osteosarcoma. Poster Presentation, 2013 School of Veterinary Medicine/Phi-Zeta Research Day, Madison, WI.

<u>Piskun CM</u>, Thompson V, Hueslmeyer M, Stein TJ. Inhibition of GSK3β Reduces Proliferation and Migration in Canine Osteosarcoma. Oral Presentation, 2013 Veterinary Cancer Society Annual Conference, Minneapolis, MN.

<u>Piskun CM</u>, Huelsmeyer MK, Thompson V, Stein TJ. Treatment with 6BIO produces a less aggressive osteosarcoma phenotype that is not mediated by resultant β-catenin transcriptional activation or GSK3β inhibition. Oral Presentation, 2014 Veterinary Cancer Society Annual Conference, St. Louis MO.

<u>Wood CM</u>, Modiano JM. Defining a unique epigenetic signature for canine immune cell populations. Poster Presentation, Masonic Cancer Center 8th Annual (2018) Cancer Research Symposium, Minneapolis, MN.

SUPPORT

<u>Active</u> **580** (PI: Wood, Modiano) Small Companion Animal Grant, University of Minnesota Defining unique DNA methylation patterns for specific dog lymphocyte subsets

	Ith Foundation Clinician Scientist Fellowship Sture for canine immune cell populations	Jan 2019 – current
Program	Director) licine Veterinary Student Summer Research Fe -derived orthotopic xenograft model of triple n	
-	ional) e 12-month Mentored Research Program rential serum ALP expression in canine osteosa	Fall 2010 - Fall 2011 rcoma
1UL1RR025011 (CTSA-NCATS, inst UW Institute for Clinical and Trans Impact of β -catenin inhibition on c	lational Research TL1 Scholars Fellowship	Fall 2011 - Fall 2012
	raduate Women in Science, Beta Chapter Wnt/β-catenin activation on canine, human a	Fall 2013 nd mouse
AWARDS & HONORS		
Association for Women Veterinari	sity gical Sciences, Cornell University Academic Excellence, UW-SVM , UW-SVM ve Biomedical Scientists Training Program ans Foundation Student Scholarship e Veterinary Student Research Award	Fall 2006 Spring 2008 Spring 2008 Fall 2008 Spring 2009 Fall 2010 Spring 2011 Spring 2012 Fall 2013 Spring 2014 Fall 2014 Spring 2015 Spring 2015 Spring 2015

UW- Madison Advanced Opportunity FellowshipFall 2015School of Veterinary Medicine Oncology AwardSpring 2016

LEADERSHIP & PROFESSIONAL ASSOCIATIONS

Martha E. Pavcek Scholarship

Representative of Class of 2012 Faculty Student Liaison Committee Spring 2015

Student Representative Wisconsin Veterinary Medicine Association, Executive Committee	Fall 2008 – Spring 2010
Scholarship Coordinator Sigma Delta Epsilon – Graduate Women in Science (Beta Chapter)	Fall 2013 – Spring 2014
Resident Member-at-Large Veterinary Cancer Society	Jan 2019 – Dec 2020
Reviewer for: Veterinary and Comparative Oncology Journal of Veterinary Internal Medicine	Spring 2019 - current
Current Memberships	
Veterinary Cancer Society	
American College of Veterinary Internal Medicine	
American Association for Cancer Research	
American Veterinary Medical Association	

Southern Arizona Veterinary Medical Association