

**BIOGRAPHICAL SKETCH**

NAME	POSITION TITLE
Nicole Ehrhart VMD, MS	Associate Professor, Surgical Oncology

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing. Include postdoctoral training.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Rutgers University	B.S.	1986	Animal Science
University of Pennsylvania	V.M.D.	1990	Veterinary Medicine
Animal Medical Center, NY, NY	Internship	1991	Clinical Medicine and Surgery
Colorado State University	Residency	1991-1994	Small Animal Surgery
Colorado State University	M.S.	1994	Clinical Sciences
Colorado State University	Post-doctoral Fellowship	1994-1995	Clinical Sciences
		1995-1996	Surgical Oncology

**Professional Experience**

2002-present	Associate Professor, Surgical Oncology, Department of Clinical Sciences, Animal Cancer Center, Colorado State University
1996 - 2002	Assistant Professor, Surgical Oncology, Department of Veterinary Clinical Medicine University of Illinois
1994 - 1996	Surgical Oncology Fellow, Department of Clinical Sciences Colorado State University

**Awards, Fellowships, and Honors**

2006	Tenure
2004	Veterinary Orthopedic Society Best Poster Award
2001	Pfizer Research Excellence Award-Nominee
2000	Helen and Norman Levine Research Award
1996, 1997	Fellowship, Clinical Oncology, Colorado State University
1995	Diplomate, American College of Veterinary Surgeons.
1993	Virgil and Mitzzy Yount Scholarship, Colorado State University
1990	<b>Cum Laude</b> Graduating Honors, University of Pennsylvania
1986-1990	Deans List, University of Pennsylvania, all semesters
1989	Hills Science and Technology Scholarship, Scholastic Achievements Award
1990	Auxiliary to the American Veterinary Medical Association Award
1983-1986	Deans List, Rutgers University, all semesters -

**Professional Activities**

2008-2010	President, Veterinary Society of Surgical Oncology
2008-2009	President-Elect, Veterinary Orthopedic Society
2007-2008	Reviewer, Clinical Orthopaedics and Related Research
2005-2006	Morris Animal Foundation Scientific Advisory Committee
2002, 2004, 2007	Grant Reviewer Musculoskeletal Transplant Foundation

**Professional Society Memberships**

1995 - present	American College of Veterinary Surgeons
1997 - present	Veterinary Orthopedic Society
1998 - present	Veterinary Cancer Society
2001-present	ASAMI-NA Limb Lengthening and Reconstruction Society

**Selected Publications Within Last Five Years**

- Ehrhart N. Longitudinal Bone Transport for Treatment of Primary Bone Tumors in Dogs: A Classification of the Technique and Summary of Nine Cases, *Veterinary Surgery*, Vet Surg. 2005 Jan-Feb;34(1):24-34.
- Ehrhart N., Eurell JA, Constable PD, Ehrhart EJ, Johnson AL, Gaddy D, Nicholas RW. The effect of preoperative host tissue irradiation on large segment allograft incorporation. *Clin Orthop Relat Res.* 2005 Jun;(435):43-51.
- Ehrhart N., Hong L, Eurell JA, Jamison R, Morgan A. The Effect of Sustained Release TGF-Beta 1 on Bone Formation in a Preoperatively Irradiated Critical-Sized Defect. *J Am Vet Res* 2005 Jun; 66 (6): 929-1104
- Jehn CT, Farese JP, Lewis DD, Kuntz C, Ehrhart N. Canine Osteosarcoma. *Veterinary Medicine*, 2005 April; 100 (4):295-307
- Ehrhart N. Soft Tissue Sarcoma in Dogs: A Review. *J Am An Hosp Assoc*, 2005 July-August; 41(4):241-246

Dunning D, Halling KB, Ehrhart N. Rehabilitation of medical and acute care patients. *Vet Clin North Am Small Anim Pract*. 2005 Nov;35(6):1411-26

Heng HG, Lowry JE, Boston S, Gabel C, Ehrhart N, Gulden SN. Smooth muscle neoplasia of the urinary bladder in three dogs, *J Am An Hosp Assoc, Vet Radiol Ultrasound*. 2006 Jan-Feb;47(1):83-6.

Boston SE, Ehrhart NP, Dernell WS, Lafferty M, Withrow SJ. Evaluation of survival time in dogs with stage III osteosarcoma that undergo treatment: 90 cases (1985-2004). *J Am Vet Med Assoc*. 2006 Jun 15;228(12):1905-8

\*Liptak JM, Ehrhart N, Santoni BG, Wheeler DL. Cortical bone graft and endoprosthesis in the distal radius of dogs: a biomechanical comparison of two different limb-sparing techniques. *Vet Surg*, 2006, 35(2):150-60

\*Liptak JM, Dernell WS, Ehrhart N, Lafferty M, Monteith GJ, Withrow SJ. Cortical allograft and endoprosthesis for limb-sparing surgery in dogs with distal radial osteosarcoma: a prospective clinical comparison of two different limb-sparing techniques. *Vet Surg*. 2006 Aug;35(6):518-33

Dennis MM, Ehrhart N, Duncan C, Barnes AB, Ehrhart EJ. Frequency of and risk factors associated with lingual lesions in dogs: 1,196 cases (1995-2004). *J Am Vet Med Assoc*. 2006 May 15;228(10):1533-7

Bacon NJ, Dernell WS, Ehrhart N, Powers BE, Withrow SJ. Evaluation of primary re-excision after recent inadequate resection of soft tissue sarcomas in dogs: 41 cases (1999-2004). *J Am Vet Med Assoc*. 2007 Feb 15;230(4):548-54

Jehn CT, Lewis DD, Farese JP, Ferrell E, Conley W, Ehrhart N. Transverse bone transport osteogenesis: A morphologic comparison of two techniques for limb salvage in dogs. *Vet Surg* 2007 36:324-334

Farese JP, Bacon NJ, Ehrhart NP, Bush J, Ehrhart EJ, Withrow SJ. Oesophageal Leiomyosarcoma in Dogs: Surgical Management and Clinical Outcome of Four Cases. *Veterinary Comparative Oncology*, 2007, *in Press*

Bacon NJ, Dernell WS, Ehrhart N, Powers BE, Withrow SJ. Evaluation of primary re-excision after recent inadequate resection of soft tissue sarcomas in dogs: 41 cases (1999-2004) *J Am Vet Med Assoc*. 2007 Feb 15;230(4):548-54.

\*Bacon NJ, Ehrhart NP, Dernell WS, Lafferty M, Withrow SJ.. Use of alternating administration of carboplatin and doxorubicin in dogs with microscopic metastases after amputation for appendicular osteosarcoma: 50 cases (1999-2006).. *Am Vet Med Assoc*. 2008 May 15;232(10):1504-10.

\*Santoni BG, Ehrhart NP, Turner AS, Wheeler DL. Effects of Low Intensity Pulsed Ultrasound With and Without Increased Cortical Porosity on Structural Bone Allograft Incorporation, *J Orthop Surg*. 2008 May 27;3:20.

\*Santoni BG, Turner AS, Wheeler DL, Nicholas RW, Anchordoquy TJ, Ehrhart NP. Gene therapy to enhance large segment allograft healing. *Clin Orthop Relat Res*. 2008 Aug;466(8):1921-9

\*Ehrhart N, Kraft S, Conover D, Rosier RN, Schwarz EM Quantification of massive allograft healing with dynamic contrast enhanced-MRI and cone beam-CT: a pilot study. *Clin Orthop Relat Res*. 2008 Aug;466(8):1897-904.

\*Johnston MS, Thode HP, Ehrhart NP. Bone transport osteogenesis for reconstruction of a bone defect in the tibiotarsus of a yellow-naped Amazon parrot (*Amazona ochrocephala auropalliata*). *Avian Med Surg*. 2008 Mar;22(1):47-56.

#### **List of Funded Research Projects**

1. The Effects of Cisplatin Chemotherapy on Distraction Osteogenesis- Principal Investigator  
Campus Research Board, **\$17,200**
2. Effects of Preoperative Radiation on Distraction Osteogenesis- Principal Investigator  
Morris Animal Foundation, **\$35,260**
3. The Effect of Cancer Therapy on Feline Whole Body Composition-- Principal Investigator  
Hills Science and Technology, **\$200,000**
4. The Effect of Preoperative Irradiation on Allograft Incorporation- Principal Investigator  
Musculoskeletal Transplant Foundation, **\$100,052**
5. Effect of Irradiation of Mesenchymal Cell Differentiation and Growth Factor Expression during Bone Transport Osteogenesis- Principal Investigator, Governors Venture Technology Program Grant, **\$60,000**
6. Effect of Sustained Release TGF-beta on Bone Regeneration in Irradiated and Non-Irradiated Subjects-- Principal Investigator, Governors Venture Technology Individual Grant, **\$24,000**
7. The Effect of Laser Perforation and Ultrasound (LIPUS) on Large Segment Allograft Healing- Co-Principal Investigator, Musculoskeletal Transplant Foundation, **\$100,000**
8. The Effect of a Diet High in Fish Oil on Prevention of Lean Body Mass Loss in Cancer-Bearing Cats- -- Principal Investigator  
Hills Science and Technology, **\$90,000**
9. Modes of Failure in Canine Distal Radial Reconstructions: Cortical Allografts versus Metal Prostheses- Principal Investigator  
College Research Council, **\$20,000**
10. Gene Therapy to Enhance Large Segment Allograft Incorporation Following Host Tissue Irradiation- Principal Investigator  
Musculoskeletal Transplant Foundation, **\$100,000**
11. Provoking anti-tumor immune response with FAS Ligand- Co-Investigator  
NIH SBIR, **\$847,621**
12. Isolated Limb Perfusion with Samarium for Treatment of Canine Appendicular Osteosarcoma- - Principal Investigator  
Mayo Clinic Research Foundation and Karl Potach Memorial Foundation, **\$180,000**
13. Biodistribution Study of Single Dose of Intravenous Radium-223 in Normal Dogs- Principle Investigator  
Algeta, Norway, **\$367,000**