

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Photocopy this page or follow this format for each person.

NAME	POSITION TITLE		
E.J. Ehrhart	Associate Professor		
EDUCATION /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 Missouri, Columbia MO	BS	1984	Animal Science
University of Missouri, Columbia MO	DVM	1983-87	Vet Medicine
Colorado State University, Fort Collins CO	Residency	1994	Anatomic Pathology
Colorado State University, Fort Collins CO	PhD/Post Doc	1996	Radiation Biology

A. Positions and Honors

1990-1988 Associate Veterinarian, private veterinary practices
 1991-1994 Resident, Anatomic Pathology, Colorado State University, Fort Collins CO
 1992-1996 Post-Doctoral Fellow, Radiation Biology, Colorado State University, Fort Collins, CO.
 1996-2002 Assistant Professor, Laboratories of Veterinary Diagnostic Medicine and Department of Veterinary Pathobiology, University of Illinois, Urbana IL.
 2002-2006 Associate Professor with tenure, Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO.

Professional Board certification

1998 American College of Veterinary Pathologists, Diplomate,

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

1. M.H. Barcellos-Hoff, **E.J. Ehrhart**, M. Kalia, R. Jirtle, K. Flanders, M.L. Tsang. Immunohistochemical detection of active TGF β in situ using engineered tissue. *American Journal of Pathology* 147(5):1228-1237, 1995.
2. **E.J. Ehrhart**, E.L. Gillette, M.H. Barcellos-Hoff. Immunohistochemical evidence of rapid extracellular matrix remodeling following Fe particle irradiation of mouse mammary gland. *Radiation Research* 145(2):157-162, 1996.
3. **E.J. Ehrhart**, P. Segarini, M. L.-S. Tsang, A.G. Carroll, M.H. Barcellos-Hoff. Latent transforming growth factor β 1 activation in situ: quantitative and functional evidence after low-dose gamma-irradiation. *Federation of American Societies for Experimental Biology (FASEB)* 11(12):991-1002, 1997.
4. L.L. Hoyer, J. Clevenger, J.E. Hecht, **E.J. Ehrhart**, F.M. Poulet. Detection of Als proteins on the cell wall of *Candida albicans* in murine tissues. *Infectious Immunology* 67(8):4251-4255, 1999.
5. S. Sulaimon, B.E. Kitchell, ***E.J. Ehrhart**. Immunohistochemical detection of melanoma specific antigens in spontaneous canine melanoma. *J Comp Pathol* 127:162-168, 2002. *** senior author.**
6. M.N. Mullins, S.E. Lana, W.S. Dernell, G.K. Ogilvie, S.J. Withrow, ***E.J. Ehrhart**. Cyclooxygenase-2 expression in canine appendicular osteosarcomas. *Journal of Veterinary Internal Medicine*, 18(6): 18(6):859-865. *** senior author.**
7. C.B. Green, S.L. Manfra, G.Cheng, F.F. Faddoul, **E.J. Ehrhart**, L.L. Hoyer. RT-PCR analysis of *Candida albicans* ALS gene expression is a hyposalivatory rat model of oral candidiasis and in HIV-positive human patients. *Medical Mycology* 44:103-111, 2006.
8. Siddiqui F, **Ehrhart EJ**, Charles B, Chubb L, Li CY, Zhang X, Larue SM, Avery PR, Dewhirst MW, Ullrich RL. Anti-angiogenic effects of interleukin-12 delivered by a novel hyperthermia induced gene construct. *Int J Hyperthermia*. 2006 Nov;22(7):587-606
9. MM Dennis, N Ehrhart, C Duncan, A Barnes, **EJ Ehrhart**. Frequency of and risk factors associated with lingual lesions in dogs: 1,196 cases (1995-2004). *Veterinary Pathology*. May 15;228(10):1533-7, 2006. *** senior author.**
10. M. Dennis, N. Bennet, **E.J. Ehrhart**, 2005, Gastric adenocarcinoma and chronic gastritis in two related Persian cats. *Veterinary Pathology*. May; 43(3):358-62, 2006.

11. JF Modiano, M Breen, SE Lana, N Ehrhart, SP Fosmire, R Thomas, CM Lubala, AR Laerato-Kozicki, **EJ Ehrhart**, J Schaack, RC Duke, GC Cutter, D Bellgrau. Naturally occurring translations models for development of cancer gene therapy, *Gene Ther Mol Biol*, 10; 31-40, 2006.
12. M.N. Mullins, W.S. Dernell, S.J. Withrow, **E.J. Ehrhart**, D.H. Thamm, S.E.Lana, The syndrome of multiple cutaneous canine mast cell tumors: 54 cases (1998-2004). *Journal of the American Veterinary Medical Association*. Jan 1;228(1):91-5, 2006.
13. J Bush, R Fredrickson, **EJ Ehrhart**. Equine Osteosarcoma: a series of 8 cases. *Vet Pathol*, 2007 Mar; 44(2):247-9.
14. S Boston, B Dernell, **EJ Ehrhart**, S Withrow. Intraoperative Radiation for limb sparing of the distal radius without transcarpal plating in 5 dogs. *Vet Surg*, 2007 Jun; 36(4): 314-23.
15. J.C. Petty, S. E. Lana, D.H. Thamm, J.B. Charles, A.M. Bachand, J.M. Bush, **E.J. Ehrhart**. Glucose Transporter 1 (GLUT-1) Expression in Canine Osteosarcoma. *Veterinary and Comparative Oncology*. Accepted Oct. 30, 2007.
16. Robert Rebhun , Susan Lana , Joseph Charles , **E.J. Ehrhart**. Comparative Analysis of Survivin Expression in Naïve and Relapsed Canine Lymphoma. *Survivin Expression in Canine Lymphoma. Journal of Veterinary Internal Medicine*. 2007 Oct; 14:42:25.
17. D.H. Thamm, **E.J. Ehrhart**, J.B. Charles, Y.A. Elce. Cyclooxygenase-2 Expression in Equine Tumors. *Vet. Pathol*, (Submitted under revision, 2007 Nov).

Book Chapters

1. **E.J. Ehrhart**, B.E. Powers. The Pathology of Neoplasia. In: *Small Animal Oncology*, Edited by D.M. Vail and S.J. Withrow, 5th edn., Elsevier, St Louis, MO..

Grants and Laboratory Service Projects Received

EJ Ehrhart (principal investigator). Role: co-investigator. 2-Deoxy-D-Glucose as a Therapy for Hypoxic Tumor cells in Canine Osteosarcoma. Miki Society funds, 07/01/07-06/30/08, \$9,000.

Anne Avery (principal investigator). Role: co-investigator. Molecular Diagnosis of Feline Intestinal Lymphoma and Lymphocytic Plasmacytic Enteritis. Morris Animal Foundation, 6/01/03-6/01/05, \$64,800.

Robert Ulrich (principal investigator). Role: co-investigator. Radiation Leukomogenesis- project 1. NASA, 10/01/2003-9/30/2008, \$7,501,160 (25% effort funded).

Julius Liptak (principal investigator). Role: co-investigator. Molecular Markers as Prognostic Factors in Dogs with Appendicular Osteosarcoma and the Effect of Altitude on Prognosis. Pet Trust Foundation, 01/01/2004-12/31/04, \$3,300.

Robert Ullrich (program director). Cancer and normal tissue response to radiation and immunotherapy. Varian Medical Systems, Varian Research Partners grant program. Funding period: 10/1/2005-9/30/2007.

1. S.M. LaRue (principal investigator). Role: co-investigator. Alterations in tumor and normal tissue physiology following irradiation. \$90,957.
2. W.S. Dernell (principal investigator). Role: co-investigator. Stereotactic radiation therapy and Immunomodulation of osteosarcoma. \$67,316.
3. D.M. Vail (principal investigator). Role: co-investigator. Radiation enhanced innate and adaptive immunotherapy of melanomas. \$101,624.
4. E.J. Ehrhart. Role: principle investigator- core director. Histology and Immunopathology Core. \$30,000.

Previous Grants:

Ehrhart, N. (principal investigator), J.C. Eurell, D. Gaddy-Kurten, D. Pack, E.J. Ehrhart, A. Johnson: Effect of irradiation on Mesenchymal Stem Cell Differentiation and Growth Factor Expression During Bone Transport Osteogenesis. CVM Governor's Venture Technology Program, 1/01/02-12/31/03, \$50,000.

Valli, V.E. (Principal investigator), E.J. Ehrhart, B. Kitchell, J. Messick, T. Fan: Characterization of specific canine lymphoid neoplastic lesions by cellular, subcellular and molecular techniques. CVM Governor's Venture Technology Program, 1/01/02-1/01/03, \$60,000.

Ehrhart, N (principal investigator), D.G. Curtin, R. Nicholas, J. Eurell, E.J. Ehrhart: The effect of preoperative irradiation on large segment cortical allograft incorporation. MS Transplant Foundation, 1/01/01-12/31/02, \$100,052.

O'Brien, W. (coordinator), E.J. Ehrhart (faculty preceptor): Radiation Biophysics and Bioengineering Oncology Program-an interdisciplinary training grant. NIH-NCI, 1999-2002, 5yr/\$1,000,000.

Kitchell, B.E. (primary investigator), E. J. Ehrhart (path consultant, research consultant): Molecular cloning of matrix metalloproteinase genes from the dog. Bayer Corp.- Animal Health Development, 1998-2000, \$124,814.

Ehrhart, N. (primary investigator), J.C. Eurell, A.L. Johnson, J.M. Losonsky, E.J. Ehrhart: The effects of preoperative irradiation on distraction osteogenesis. Morris Animal Foundation, 9/1999-9/2000, \$35,200.

Kitchell, B.E. (graduate advisor), E.J. Ehrhart (research advisor): Gangliosialoproteins as an immunologic target for spontaneous canine melanoma. Private residency fund to fund graduate program of Shola Sulaimon, 1996-12/1998, \$5000.

Animal Cancer Center- Molecular pathology laboratory: Service work

Fiscal year 2003:	Internal revenue (2-1 acct):	3238.96
Fiscal year 2004:	Internal revenue (2-1 acct):	7293.00
Fiscal year 2005:	Internal revenue (2-1 acct):	1331.20
Fiscal year 2006:	Internal revenue (2-1 acct):	26,604.00
Fiscal year 2007:	Internal revenue (2-1 acct):	7995.00
	Projects:	Boehringer Ingelheim Vetmedica Medtronic Sofamore Danek Memorial Sloan Kettering Cancer Center
Fiscal year 2006:	Project granted: Hill's Pet Nutrition:	\$50,000.00 Project completed.

Summary of Instruction

2002, 2003 & 2004	PA796V Surgical Path, (1 hour contact- guest lecturer) (B Powers coordinator)		
2003-2005		VM742, Soph PVM, gross pathology (role: co-instructor)	
2002-2005	PA792AV-001 Histopath seminar (role: weekly participant)	PA792AV-001 Histopath seminar **(role:coordinator) 2003-present	
2002-2005	Senior practicum, Post-mortem rotation	Senior practicum, Post-mortem rotation	Senior practicum, Post-mortem rotation
2002-2005	Senior Practicum, Postmortem-weekend	Senior Practicum, Postmortem-weekend	Senior Practicum, Postmortem-weekend
2002-2005	Senior Practicum, hospital surgical biopsy	Senior Practicum, hospital surgical biopsy	Senior Practicum, hospital surgical biopsy
2003		MB498V Laboratory techniques- independent study	
2003 &2004	VS703 Postgraduate Veterinary Medicine (1 hour contact- guest lecturer) (S. Lana coordinator)		
2003 - 2005		VS642-001 Clinical Ophthalmology -guest lab coordinator: histopathology of normal eye (3 lab contact hours) (J Gionfriddo coordinator)	
2003-2005	PA796V-004 Independent study-Ophtho pathology **(role: coordinator)	PA796V-004 Independent study-Ophtho pathology **(role: coordinator)	
2004-2007	R580 Cancer Genetics/Cancer Biology (3 hour contact- guest lecturer) (M. Weil- coordinator)		
2004	PA778 Pathobiology of Laboratory Animals- Hamster & Gerbil (2 hours contact) (S. VandeWoude- coordinator)		
	MIP555 Intro to Cancer (E Hoove coordinator)		