

Donna M. Bouley, DVM, PhD. Professor (MCL), Department of Comparative Medicine

A. Academic History

- 1972 - 1976 Bachelor of Science, University of Massachusetts, Amherst, MA. Animal Science, degree awarded February, 1976.
- 1982 - 1985 Doctor of Veterinary Medicine, University of Tennessee College of Veterinary Medicine, Knoxville, TN. degree awarded June, 1985.
- 1988 - 1993 Resident, Anatomic Pathology, Department of Pathobiology, University of Tennessee College of Veterinary Medicine, Knoxville, TN.
- 1989 - 1995 Doctor of Philosophy, University of Tennessee, Knoxville, TN. Comparative and Experimental Medicine, degree awarded August, 1995.
- 1993 - 1995 NIH Postdoctoral Fellow, Department of Microbiology, University of Tennessee, Knoxville, TN.

Additional training

- 1992 Twenty-third Annual Primate Pathology Workshop – case presentations, Atlanta, GA.
- 1992 “Ocular and Ear Pathology of Laboratory Animals” – three-day course, ISLE, San Diego, CA.
- 1994 “Viral, Bacterial and Protozoal Pathogenesis” – short course, FASEB, Saxton River, VT.
- 1996 “The Gross Morbid Anatomy of Diseases in Animals” – four-day course, Charles Louis Davis Foundation, Bethesda, MD.
- 1996 “Descriptive Veterinary Pathology” – four-day course, Armed Forces Institute of Pathology, Bethesda, MD.
- 1997 Stereology Workshop, Nov 15, ACVP Annual Meeting, Albuquerque, NM.
- 1997 PCR Workshop, Nov 15, ACVP Annual Meeting, Albuquerque, NM.
- 1998 “The Genetically Altered Mouse: A Practical Guide Development and Analysis”, May 8-9, UC Davis, Davis, CA.
- 1998 “Lymphocytes and Antibodies”, FASEB Summer Research Conference, Jun 20-25, Saxton’s River, VT.
- 1998 “Immunohistochemistry”, ILSI Seminars on Advanced Pathologic Techniques, Nov 14, ACVP Annual Meeting, St. Louis, MO.

- 1999 "Functional Genomics and Cryopreservation in the Laboratory Mouse", hosted by Jackson Laboratory and Roche Bioscience, Palo Alto, CA.
- 1999 "Pathology of Transgenic Mice" Symposium, Feb 24, NIH, Bethesda, MD.
- 2001 42nd Annual Short Course in Medical and Experimental Mammalian Genetics, July 15-28, The Jackson Laboratory, Bar Harbor, ME.
- 2004 RTP Rodent Neuropathology Course, Sept 12-14. CIIT, Raleigh, NC.
- 2005 "Current Issues in Neuropathology", Dec 3, ACVP/ILSI/HESI Seminar on Advanced Pathological Techniques, Boston, MA.
- 2005 "Pathology of Genetically Engineered Mice", Dec 7, ACVP Annual Meeting, Boston, MA.
- 2006 First Annual CL Davis West Coast Subdivision Toxicologic Pathology Symposium, "Immunotoxicology and Pathology of Immune Modulators", Allergan, October 13, Irvine, CA.
- 2006 CL Davis Foundation Pre-Meeting Workshop "Cytology for the Anatomic Pathologist" Dec 2, ACVP Annual Meeting, Tucson, AZ.
- 2007 Symposium "MR-guided High Intensity Focused Ultrasound", Feb 5, Stanford University School of Medicine.
- 2007 2nd Annual C.L. Davis DVM Foundation West Coast "Bioimaging for the Experimental and Toxicologic Pathologist", October 19th, Genentech, Inc. South San Francisco, CA.
- 2007 C.L. Davis Foundation Pre-Meeting Workshop "Pathology of the Liver: What's New and What's Still True", Nov 11, ACVP Annual Meeting, Savannah, GA
- 2008 C.L. Davis Foundation Pre-Meeting Workshop "Orthopedic Pathology - Fifty Years On: Revisiting 22 Classic Entities from the 1958 ACVP Meeting on Skeletal Disease", November 15, ACVP Annual Meeting, San Antonio, TX

B. Employment history

- 1985 - 1988 Primary/Associate Veterinarian, Veterinary Clinics, Tennessee, Georgia and Florida
- 1995 - 1997 Lecturer in Anatomic Pathology, College of Veterinary Medicine, Department

of Pathobiology Texas A&M, College Station, TX

- 1996 Diplomate, American College of Veterinary Pathologists
- 1997 - 2003 Assistant Professor, Department of Comparative Medicine, Stanford University School of Medicine, Stanford, CA.
- 2001 - 2003 Assistant Professor by Courtesy, Department of Pathology, Stanford University School of Medicine, Stanford, CA.
- 2003 - 2008 Associate Professor, Department of Comparative Medicine, Stanford University School of Medicine, Stanford, CA.
- 2003 - 2008 Associate Professor by Courtesy, Department of Pathology, Stanford University School of Medicine, Stanford, CA.
- 2008 - present Professor, Department of Comparative Medicine, Stanford University School of Medicine, Stanford, CA.
- 2008 - present Professor by Courtesy, Department of Pathology, Stanford University School of Medicine, Stanford, CA.

C. Public and Professional Service

- 2001- present Chair, Neuropathology Mystery Slide Session, ACVP Annual Meetings.
- 2001 - 2006 Member, Charles Louis Davis (C. L. Davis), DVM Foundation, Advisory Board.
- 2006 - present Member, C. L. Davis, DVM Foundation, Board of Directors.
- 2002 - 2006 Member, Experimental Disease Committee, and Chair 2005, ACVP Annual Meetings.
- 2004 - present Co-director, C. L. Davis West Coast Veterinary Pathology Meeting, Asilomar, CA.
- 2006 - present Judge, Experimental Disease posters, ACVP Annual Meetings, Dec 3-6, 2006, Tucson, AZ, Nov 11-15, 2007, Savannah, GA, and Nov 15-19, 2008, San Antonio, TX
- 2007 Member-at-large, Education Committee, ACVP
- 2008 Member, Education Committee, ACVP

- 2007 Reviewer, NIH Site Visit, Wisconsin National Primate Research Center,
Jan 24-26, Madison, WI.
- 2007 Reviewer, NIH Site Visit, New England National Primate Research Center,
June 26-28, Southborough, MA.

Administrative Duties

Department of Comparative Medicine

- 1997 – present Director of Necropsy and Clinical Diagnostic Services, VSC
- 2002 - present Teaching Committee, Department of Comparative Medicine
- 2005 – present Faculty coordinator for Laboratory Animal Veterinary Externship Program,
Department of Comparative Medicine
- 2007- 2008 Faculty Supervisor, Mouse Sentinel Program
Faculty Supervisor, Cryopreservation/rederivation Services

Medical School

- 2006 - present Director, “Animal Tumor Models and Histopathology Core”, Comprehensive
Cancer Center, Stanford University.
- 2007 - 2008 Advisory Board member, Administrative Panel on Biosafety, Stanford School
of Medicine

Memberships

American College of Veterinary Pathologists
American Association for Laboratory Animal Science
The Charles Louis Davis, D.V.M., Foundation

AD Hoc Reviewer

International Journal of Radiation Oncology, Biology, Physics.
Journal of Zoo and Wildlife Medicine
ILAR Journal
Comparative Medicine Journal

Community Service

- 1997- present Established and maintain the “Dr. B’s Brain Collection” – two identical sets of
preserved animal brains (~ 15 different species) used by various graduate
students and post docs in the neurobiology department for outreach teaching
programs to local elementary and middle schools.

- 2004-2005 Taught specialty dance classes at local high school
- May 30, 2008 Organized the first "Stanford Undergraduate Pre-Vet Club Expo", open to the public, with the intent of providing insight into the numerous career opportunities for veterinarians.

Research Funding

Completed:

- 11/98 - 10/99 **Veterinary Pathologist**, Ethicon Endo-Surgery, PI: Daniels, B., "The MRI Compatible Mammotome".
- 05/99 - 04/02 **Co-Investigator**, The Whitaker Foundation, PI: Butts, K., "Advanced Methods for MR Thermometry".
- 05/99 - 03/03 **Associate Investigator**, NIH 2R01 DK48051-04, PI: Sommer, G., "MRI of Renal Anatomy and Function in Chronic Ischemia".
- 07/00 - 04/02 **Veterinary Pathologist**, California Breast Cancer Research Center, PI: Mochly-Rosen, D. "The Control of Breast Cancer Cell Death".
- 06/01 - 05/03 **Veterinary Pathologist**, NIH R33 CA82205, PI: Sommer, G., "Precise MRI-Directed Sonic Ablation of Prostate Cancer".
- 07/02 - 06/03 **Consultant**, Oregon Health Sciences University (OHSU), PI: Hayflick, SJ., "A Murine Model for Infantile Neuroaxonal Dystrophy".
- 09/01 - 03/06 **Co-Investigator**, NIH AI30363, PI: Mocarski, E. "Cytomegalovirus Pathogenesis in Immunodeficiency". *Dr. Bouley began project in 11/02.* 5%
- 09/01 - 03/06 **Veterinary Pathologist**, NIH P01 A1050153, PI: Mocarski, E. "Transplantation Arterio-Sclerosis: Viral and Host Mechanisms". *Dr. Bouley began project in 05/03.* 5%
- 07/01 - 06/05 **Veterinary Pathologist**, NIH CA92229, PI: Falkow, S., "Helicobacter-host Interactions in Animal Models". 8.25%
- 04/05 - 03/06 **Veterinary Pathologist**, NIH R01 DK48051, Sommer, G., "MRI of Renal Anatomy and Function in Chronic Ischemia". 5%
- 05/02 - 04/06 **Veterinary Pathologist**, NIH CA90897, PI: Broome-Powell, M., "Melanoma: Microenvironment and Oncogene Interactions". 5%

Current:

- 04/00 - 03/09 **Core Director**, NIH CA82566, PI: Brown, J.M., "Development of New Hypoxic Cytotoxins for Cancer Therapy". 5%
- 07/05 - 06/10 **Veterinary Pathologist**, NIH RO1 CA92229, PI: Falkow, S., "Helicobacter Host Interactions in Animal Models". 5%
- 04/03 - 03/08 **Co-Investigator**, NIH R01 CA092061, PI: Daniel, B., "Techniques for MRI guided Cryosurgery of Prostate Cancer". 10%
- 01/05 - 12/07 **Co-Investigator**, NIH R01 CA111981, PI: Sommer, G., "Precise MRI-Directed Sonic Ablation of Prostate Cancer". 7.5%
- 02/07 - 01/12 **Core Director**, NIH P01 CA67166 PI Giaccia A, "Hypoxia: Molecular Studies and Clinical Exploitation". 11.5%

2007 **Core Director**, NIH P30CA124435, PI: Weissman I., Stanford University Cancer Center Grant. Core - "Animal Tumor Models and Histopathology". 20%

Pending

Co-Investigator, NIH 2 R01 CA111981-04 PI: Sommer, G, "Precise MRI-Directed Sonic Ablation of Prostate Cancer". 10%

Teaching

1997- present Introduction to the Care and Use of Laboratory Animals in Teaching and Research at Stanford University. 6 times/yr; topic – Necropsy Services

1999 – present "Comparative Anatomy and Physiology of Mammals" – (3 units, winter quarter) - a Sophomore Seminar course (1999-2004) and a Freshman Seminar course (2005 – present) – Lecture and laboratory course - Course originator and instructor

2002 - present Founder and Mentor, Stanford Undergraduate Pre-Vet Club (SUPVC), Stanford University, Stanford, CA

2002 "Mechanisms of Disease" (3 units, spring quarter) – a Freshman Seminar - Course originator and instructor

2005 "Topics in Microbiology" (5 units, spring quarter) – undergraduate course designed for two students to meet the "microbiology with lab" requirement (not offered at Stanford) for admission to veterinary school - Course originator and co-instructor

1998-2005 Guest lecturer or laboratory "facilitator" in various courses including: "Horse Medicine", "Animal Models in Biomedical Research", "BioX course: Animals Advancing Biomedical Technology", "Stanford School of Medicine Pathology Course" - "Infectious Disease" and "Neoplasia" laboratories.

1998 – present Undergraduate research mentor or co-mentor for ~ 15 undergraduate students.

1997 – present Supervised total of 14 undergraduate student employees as "pathology assistants" in necropsy and diagnostic laboratories

2004-present Veterinary mentor for a total of 11 veterinary students from around the country working in 10 medical school laboratories as "Summer veterinary research interns" on NIH sponsored training program

Grants obtained for Undergraduate Research or other programs

- Dec 2004 VPUE faculty grant (\$2,142.00) awarded to support project - "Identification and Characterization of Pacinian Corpuscles in the Elephant Foot: Possible Conductors of Seismic Waves Used in Elephant Communication" and undergraduate research student – Christina Alarcon.
- Summer 2005 VPUE-sponsored Field Studies Grant (\$5000.00) for Christina Alarcon – project entitled " Namibia 2005"- travel to Etosha National Park in Namibia to investigate Musth in bull elephants. Faculty co-sponsor with Dr. Caitlin O'Connell-Rodwell Ph.D, Research Associate, Department of Otolaryngology, Stanford School of Medicine.
- Summer 2006 VPUE-sponsored Field Studies Grant (\$5000.00)– for Willie Phan –project entitled "Mushara 2006" – travel to Etosha National Park in Namibia to investigate Musth in bull elephants. Faculty co-sponsor with Dr. Caitlin O'Connell-Rodwell Ph.D, Research Associate, Department of Otolaryngology, Stanford School of Medicine.
- Summer 2008 VPUE-sponsored Field Studies Grant (\$5200.00), and Major Grant (\$5200.00)– for Mary Thurber –project entitled "Determining the Role of Hormones and Genetics in Bull Elephant Dominance Hierarchies" – travel to Etosha National Park in Namibia to investigate Musth in bull elephants. Faculty co-sponsor with Dr. Caitlin O'Connell-Rodwell Ph.D, Adjunct Assistant Professor, Department of Otolaryngology, Stanford School of Medicine.
- Fall 2006 UPEG grant awarded (\$2300.00) for Expansion of the Stanford Undergraduate Pre-Vet Club. Activities include field trips, invited speakers, social gatherings
- Fall 2008 UPEG grant awarded (\$2300.00) to continued support of the Stanford Undergraduate Pre-Vet Club. Activities include field trips, invited speakers, social gatherings

D. Post degree Honors and Awards

- 1972 Coting Memorial Scholarship, Commonwealth of Massachusetts 4-H, Equine Division.
- 1975 Alumni Scholarship, University of Massachusetts, Amherst, MA.
- 1985 John Hunter Memorial Scholarship, University of Tennessee College of Veterinary Medicine.
- 1989 Recipient of University of Tennessee College of Veterinary Medicine Venture Grant, Project: "Generation of Polyclonal Antibodies for the Immunohistochemical Detection of TGF-Beta in Bovine Placentas".
- 1991 Recipient of University of Tennessee College of Veterinary Medicine Venture Grant,

Project: "Characterization of Scurfy Thymic Cells".

- 1992 Young Investigator of the Year Poster Competition, 1st Place, Annual Meeting, American College of Veterinary Pathologists, San Diego, CA..
- 1992 Charles Louis Davis DVM Foundation Veterinary Pathology Scholarship Award.
- 1993 Sigma Xi Oral Presentation, 2nd Place. Title: "Immune CD4+ and Naive T Lymphocytes Adoptively Transfer the Immunopathology of Herpetic Stromal Keratitis", UTCVM
- 2007 Recipient of the Lloyd W. Dinkelspiel Award for Distinctive Contributions to Undergraduate Education, Stanford University

E. Publications

Peer-Reviewed

1. Mercadal CM, **Bouley DM**, DeStephano D, Rouse BT: Herpetic stromal keratitis in the reconstituted SCID mouse model. *J Virol*, 67:3404-3408, 1993.
2. Banks TA, Rouse BT, Kerley MK, Blair PJ, Godfrey VL, Kuklin NA, **Bouley DM**, Thomas J, Kanangat S, Mucenski ML: Lymphotoxin-alpha-deficient mice: effects on secondary lymphoid organ development and humoral immune responsiveness. *J Immunol* 155:1685-1693, 1995.
3. **Bouley DM**, Kanangat S, Wire WS, Rouse BT: Characterization of herpes simplex virus type-1 infection and herpetic stromal keratitis development in IFN- γ knockout mice. *J Immunol*, 155:3964-3971, 1995.
4. **Bouley DM**, Kanangat S, Rouse BT: The role of the innate immune system in the reconstituted SCID mouse model of herpetic stromal keratitis. *Clin Immunol Immunopathol*, 80:23-30, 1996.
5. Schulz KS, Rogers KS, Steinheimer D, **Bouley D**: Identification of a distal nerve sheath tumour by a caudolateral approach to the caudal compartment of the stifle joint. *Vet Comp Orthop Traumatol* 10:170-172, 1997.
6. Monack DM, Mecsas J, **Bouley DM**, Falkow S: Yersinia-induced apoptosis *in vivo* aids in the establishment of a systemic infection of mice. *J Exp Med* 188: 2127-2137, 1998.
7. Willard MD, Berridge B, Braniecki A, **Bouley DM**: Possible antibiotic-associated colitis in a dog. *J Am Vet Med Assoc*, 213:1775-1779, 1998.
8. Pennacchio LA, **Bouley DM**, Higgins KM, Scott MP, Noebels JL, Myers RM: Progressive ataxia, myoclonic epilepsy and cerebellar apoptosis in cystatin B-deficient mice. *Nature*

Genetics 20 (3):251-258, 1998.

9. Green SL, Waggle K, Tolwani RJ, **Bouley DM**, Otto G, Lifland B: Identification and management of an outbreak of *Flavobacterium meningosepticum* in a colony of *xenopus laevis*. *J Am Vet Med Assoc*, 24 (12): 1833-1838, 1999.
10. Drew ML, Phalen DN, Berridge BR, Johnson TL, **Bouley D**, Weeks BR, Miller HA, Walker MA: Partial tracheal obstruction due to chondromas in ball pythons (*Python regius*). *J Zoo Wild Med* 30:151-157, 1999.
11. Willard MD, **Bouley D**: Cryptosporidiosis, coccidiosis, and total colonic mucosal collapse in an immunosuppressed puppy. *J Am Animal Hospital Assoc*, 35 (5):405-409, 1999.
12. Chen L, **Bouley DM**, Butts K: Study of focused ultrasound tissue damage using MRI and histology. *J Mag Res Imag* 10:146-153, 1999.
13. Springer M, Hortelano G, **Bouley DM**, Kraft P, Wong J, Blau H: Induction of angiogenesis by implantation of encapsulated primary myoblasts expressing vascular endothelial growth factor. *J Gene Medicine* 2:279-288, 2000.
14. Monack DM, Hersh D, Ghori N, **Bouley DM**, Zychlinsky A, Falkow S: Salmonella exploits caspase-1 to colonize Peyer's patches in a murine typhoid model. *J Exp Med* 192:249-258, 2000.
15. Valdivia RH, Cirillo DM, Lee AK, **Bouley DM**, Falkow S: Mig-14 is a horizontally-acquired, host-induced gene required for Salmonella enterica lethal infection in the murine model of typhoid fever. *Infect Immun* 68:7126-7131, 2000.
16. Green SL, Lifland BD, **Bouley DM**, Brown BA, Wallace Jr. RJ, Ferrell JE: Disease attributed to Mycobacterium chelonae in South African clawed frogs (*Xenopus laevis*). *J Comp Med* 50:675-679, 2000.
17. Chen L, **Bouley DM**, Harris BT, Butts K: MRI study of cell viability in focused ultrasound lesions in rabbit brains. *J Mag Res Imag* 13:23-30, 2001.
18. He L, Gunn TM, **Bouley DM**, Lu XY, Watson SJ, Duke-Cohan JS, Barsh GS: A biochemical function for attractin in agouti-induced pigmentation and obesity. *Nature Genetics* 27:40-47, 2001.
19. Green SL, **Bouley DM**, Pinter MJ, Cork LC, Vatassery GT: Canine motor neuron disease: clinicopathologic features and selected indicators of oxidative stress. *J Vet Intern Med* 15:112-119, 2001.
20. Miller E, Green SL, Otto GM, **Bouley DM**: Suspected hypovitaminosis A in a colony of captive green anoles (*Anolis carolinensis*). *Contemp Topics* 40:18-20, 2001.

21. Saederup N, Aguirre SA, Sparer TE, **Bouley DM**, Mocarski ES: Murine cytomegalovirus CC chemokine homolog MCK-2 (m131-129) is a determinant of dissemination that increases inflammation at initial sites of infection. *J Virol* 75:9966-9976, 2001.
22. Gunn TM, Inui T, Kitada K, Wakamatsu K, He L, **Bouley DM**, Serikawa T, Barsh GS: Molecular and phenotypic analysis of attractin mutant mice. *Genetics* 158:1683-1695, 2001.
23. **Bouley DM**, Ghorri N, Mercer KL, Falkow S, Ramakrishnan L: Dynamic nature of host-pathogen interactions in Mycobacterium marinum granulomas. *Infect Immun* 69:7820-7831, 2001.
24. Coulam CH, **Bouley D**, Sommer FG: Measurement of renal volumes with contrast-enhanced MRI. *J Mag Res Imag* 15:174-179, 2002.
25. Coulam CH, Lee JH, Wedding KL, Spielman DM, Pelc NJ, Kee ST, Hill BB, **Bouley DM**, Derby GC, Myers BD, Sawyer-Glover AM, Sommer FG: Noninvasive measurement of extraction fraction and single-kidney glomerular filtration rate with MR imaging in swine with surgically created renal arterial stenoses. *Radiology* 223:76-82, 2002.
26. Butts K, Daniel BL, Chen L, **Bouley DM**, Wansapura J, Maier SE, Dumoulin C: Diffusion-weighted MRI after cryosurgery of the canine prostate. *J Mag Res Imag* 17 (1):131-135, 2003. *Participated in study design, participated extensively in data analysis and interpretation, and authored some portions of the manuscript.*
27. Green SL, **Bouley DM**, Josling CA, Fayer R: Cryptosporidiosis associated with emaciation and proliferative gastritis in a laboratory South African clawed frog (*Xenopus laevis*). *J Comp Med* 53 (1):81-84, 2003. *Made diagnosis, participated extensively in data analysis, acquired images and wrote figure legends, and authored some portions of the manuscript.*
28. Green SL, Moorhead RC, **Bouley DM**: Thermal shock in a colony of laboratory *Xenopus laevis*. *Vet Rec* 152 (11):336-367, 2003.
29. Norris RL, Dery R, Johnson C, Williams S, Rose K, Young L, McDougal IR, **Bouley D**, Bloch D, Oehlert J, Thompson RC: Regional versus systemic antivenom administration in the treatment of snake venom poisoning in a rabbit model: a pilot study. *Wilderness and Environmen Med* 14 (4): 231-235, 2003. *Participated in study design, participated extensively in data analysis, and authored some portions of the manuscript.*
30. Kanaujia GV, Garcia MA, **Bouley DM**, Peters R, Gennaro ML. Detection of early secretory antigenic target-6 antibody for diagnosis of tuberculosis in non-human primates. *Comp Med* 53 (6):602-606, 2003. *Participated extensively in data analysis, and authored some portions of the manuscript.*
31. Inagaki K, Chen L, Ikeno F, Lee F, Imahashi K, **Bouley D**, Rezaee M, Yock P, Murphy E, Mochly-Rosen D: Inhibition of delta protein kinase C protects against reperfusion injury of

the heart in vivo. *Circulation* 108 (19):2304-2307, 2003. *Participated extensively in data analysis*

32. Nekhendzy V, Fender CP, Kim MS, Davies MF, Lemmens H, **Bouley DM**, Maze M: Transcranial electrical stimulation (TCES) with combined direct and alternating current evokes frequency-dependent antinociceptive response in rats. *Anesth Anal* 98 (3):730-737, 2004. *Participated extensively in data analysis, and authored some portions of the manuscript.*
33. Garcia MA, Yee JA, **Bouley DM**, Moorhead R, Lerche NW: Diagnosis of tuberculosis in macaques, using whole-blood in vitro interferon-gamma (primagam) testing. *Comp Med* 54 (1):86-92, 2004. *Participated extensively in data analysis, and authored some portions of the manuscript.*
34. Monack DM, **Bouley DM**, Falkow S: Salmonella typhimurium persists within macrophages in the mesenteric lymph nodes of chronically infected Nramp1^{+/+} mice and can be reactivated by IFN {gamma} neutralization. *J Exp Med* 199 (2):231-241, 2004. *Participated extensively in data analysis and interpretation, acquired images and wrote figure legends, and authored some portions of the manuscript.*
35. Bedogni B, O'Neill MS, Welford SM, **Bouley DM**, Giaccia A, Denko NC, Broome-Powell M: Topical treatment with inhibitors of the phosphatidylinositol 3'-kinase/Akt and Raf/mitogen-activated protein kinase kinase/extracellular signal-regulated kinase pathways reduces melanoma development in severe combined immunodeficient mice. *Cancer Research* 64 (7):2552-2560, 2004. *Participated extensively in data analysis, acquired images and wrote figure legends, and authored some portions of the manuscript.*
36. Garcia MA, **Bouley DM**, Larson MJ, Lifland B, Moorhead R, Simkins MD, Borie DC, Tolwani R, Otto G: Outbreak of Mycobacterium bovis in a conditioned colony of rhesus (*Macaca mulatta*) and cynomolgus (*Macaca fascicularis*) macaques. *Comp Med* 54 (5):578-584, 2004. *Participated extensively in data analysis, acquired images and wrote figure legends, and authored some portions of the manuscript.*
37. Ross AB, Diederich CJ, Nau WH, Gill H, **Bouley DM**, Daniel B, Rieke V, Butts RK, Sommer G: Highly directional transurethral ultrasound applicators with rotational control for MRI-guided prostatic thermal therapy. *Phys Med Biol* 49 (2):189-204, 2004. *Participated in study design, participated extensively in data analysis and interpretation, acquired images and wrote figure legends, and authored some portions of the manuscript.*
38. Tam SY, Tsai M, Snouwaert JN, Kalesnikoff J, Scherrer D, Nakae S, Chatterjea D, **Bouley DM**, Galli SJ: RabGEF1 is a negative regulator of mast cell activation and skin inflammation. *Nat Immunol* 5 (8):844-852, 2004. *Participated extensively in data analysis, acquired images and wrote figure legends, and authored some portions of the manuscript.*
39. Mazerbourg S, **Bouley DM**, Sudo S, Klein CA, Zhang JV, Kawamura K, Goodrich LV, Rayburn H, Tessier-Lavigne M, Hsueh AJ: Leucine-rich repeat-containing, G protein-coupled receptor 4 null mice exhibit intrauterine growth retardation associated with embryonic and perinatal lethality. *Mol Endocrinol* 18 (9):2241-2254, 2004. *Participated extensively in data analysis, and authored some portions of the manuscript.*

40. Morita H, Mazerbourg S, **Bouley DM**, Luo CW, Kawamura K, Kuwabara Y, Baribault H, Tian H, Hsueh AJ: Neonatal lethality of LGR5 null mice is associated with ankyloglossia and gastrointestinal distension. *Mol Cell Biol* 24 (22):9736-9643, 2004. *Participated in study design, participated extensively in data analysis, acquired images and wrote figure legends, and authored some portions of the manuscript.*
41. Tolwani R, Hagan C, Runstadler J, Lyons H, Green S, **Bouley D**, Rodriguez L, Schendel S, Moseley M, Daunt D, Otto G, Cork L: Magnetic resonance imaging and surgical repair of cleft palate in a four-week-old canine (*canis familiaris*): an animal model for cleft palate repair. *Contemp Top Lab Anim Sci* 43 (6):17-21, 2004. *Participated extensively in data analysis, and authored some portions of the manuscript.*
42. Nau WH, Diedrich CJ, Ross AB, Butts K, Rieke V, **Bouley DM**, Gill H, Daniel B, Sommer G: MRI-guided interstitial ultrasound thermal therapy of the prostate: a feasibility study in the canine model. *Med Phys* 32 (3):733-743, 2005. *Participated in study design, participated extensively in data analysis and interpretation, acquired images and wrote figure legends, and authored some portions of the manuscript.*
43. Daniel BL, Freeman LJ, Pyzoha JM, McCoy TD, Birdwell RL, **Bouley DM**, Movius B, Hibner JA: An MRI-compatible semiautomated vacuum-assisted breast biopsy system: initial feasibility study. *J Magn Reson Imaging*. May 21 (5):637-44, 2005. *Participated extensively in study design, participated extensively in data analysis and interpretation, and authored some portions of the manuscript.*
44. Ross AB, Diederich CJ, Nau WH, Rieke V, Butts RK, Sommer G, Gill H, **Bouley DM**: Curvilinear transurethral ultrasound applicator for selective prostate thermal therapy. *Med Phys*. June 32 (6):1555-65, 2005. *Participated in study design, participated extensively in data analysis and interpretation, acquired images and wrote figure legends, and authored some portions of the manuscript.*
45. Mueller A, O'rourke J, Chu P, Chu A, Dixon MF, **Bouley DM**, Lee A, Falkow S: The role of antigenic drive and tumor-infiltrating accessory cells in the pathogenesis of helicobacter-induced mucosa-associated lymphoid tissue lymphoma. *Am J Pathol*. September 167 (3):797-812, 2005. *Participated extensively in data analysis and interpretation, and acquired images and wrote figure legends,.*
46. **Bouley DM**, McIntire JJ, Harris BT, Tolwani RJ, Otto GM, Dekruffy RH, Hayflick SJ: Spontaneous Murine Neuroaxonal Dystrophy: a Model of Infantile Neuroaxonal Dystrophy. *J Comp Pathol*. 134:161-170, 2006.
47. Green, SL, **Bouley, DM** and Constineau, G. *Xenopus laevis* Anatomy. Color poster publications by the *American Association for Laboratory Animal Science*, 2006.
48. Neighbors M, Hartley SB, Xu X, Castro AG, **Bouley DM**, O'Garra A: Breakpoints in immunoregulation required for Th1 cells to induce diabetes. *Eur J Immunol*, September 36 (9):2315-2323, 2006. *Participated extensively in data analysis and interpretation.*

49. Butts Pauly K, Diederich CJ, Rieke V, **Bouley D**, Chen J, Nau WH, Ross AB, Kinsey A, Sommer G: MR-guided high intensity ultrasound ablation of the prostate. *Top Magn Reson Imag*, 17 (3) 195-207, 2006. *Participated in study design, participated extensively in data analysis and interpretation, acquired images and wrote figure legends, and authored some portions of the manuscript.*
50. Sommer G, **Bouley DM**, Frisoli J, Pierce L, Sandner-Porkristl D, Fahrig R: Determination of 3-dimensional zonal renal volumes using contrast enhanced CT. in press: *J Comput Assist Tomogr* 31 (2), 209-213, 2007 *Participated extensively in study design, designed digital data analysis, acquired images and wrote figure legends, and authored some portions of the manuscript.*
51. **Bouley DM**, Daniel B, Butts Pauly K, Liu L, Kinsey A, Nau W, Diederich CJ, and . Sommer G: Correlation of contrast-enhanced MR images with the histopathology of minimally invasive thermal and cryoablation cancer treatments in normal dog prostates International Society for Optical Engineering Conference (Proceedings *SPIE* 6440, 644006, 2007)
52. Ryu KY, Maehr R, Gilchrist CA, Long MA, **Bouley DM**, Mueller B, Ploegh HL, Kopito RR The mouse polyubiquitin gene UbC is essential for fetal liver development, cell-cycle progression and stress tolerance. *EMBO J*. June 6;26(11):2693-706, 2007 *Participated extensively in data analysis and interpretation.*
53. Green S, Parker J, Davis C, **Bouley DM**: Ovarian Hyperstimulation Syndrome in Gonadotropin-treated laboratory South African Clawed Frogs (*Xenopus laevis*). *JAALAS*. May 46 (3), 64-67, 2007
54. **Bouley DM**, Alarcon, C, Hildebrandt T, and O'Connell-Rodwell CE: The distribution, density and three-dimensional histomorphology of Pacinian corpuscles in the foot of the Asian elephant (*Elephas maximus*) and their potential role in seismic communication., *J Anatomy* October 211 (4), 428-435, 2007
55. Ryu, KY, Sinnar SA, Reinholdt LG, Vaccari S, Hall S, Garcia MA, T Zaitseva TS, **Bouley DM**, Boekelheide K, Handel MA, Conti M, Kopito RR. The Mouse Polyubiquitin Gene *Ubb* is Essential for Meiotic Progression. *Mol Cell Biol*. Dec 2007 epub *Participated extensively in data analysis*
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57. Arakawa H, Marks, MP, Do, HM, **Bouley, DM**, Strobel, N, Moore, T, Fahrig, R. Experimental study of intracranial hematoma detection with Flat Panel Detector C-arm CT. *Am. J. Neuroradiol.*, 29: 766 – 772, April 2008. *Participated extensively in data analysis and*

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60. Yoon S, Henry RW, **Bouley DM**, Bennett NR, Fahrig R Characterization of a novel anthropomorphic plastinated lung phantom. *Med Phys.* 2008 Dec;35(12):5934-43.
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63. Josan S, **Bouley DM**, van den Bosch M, Daniel BL, Butts Pauly K. MRI-guided cryoablation - *in vivo* assessment of focal canine prostate cryolesions *J Magn Reson Imaging* 2009; 30: 1: 169-176:
64. Saul AN, Oberyszyn TM, Daugherty C, Holmes TH, **Bouley DM**, Dhabhar FS. Short term psychological stress enhances cellular immunity and increases early resistance to squamous cell carcinoma (in press, *Cancer Immunology and Immunotherapy*)
65. Ameri K, Atkuri K, Luong R, Zhang H, Powell A, Montgomery KD, Mariscal IE, Van de Rijn JM, **Bouley DM**, Dairkee SH, Herzenberg LA, Harris AL, Jeffrey SS. Circulating Tumor Cells Display an Anoxia Phenotype and Form Tumors and Metastases (in preparation)
66. Thurber MI, Turner W, Nambandi K, Kinzley C, **Bouley DM**, O'Connell-Rodwell CE. The Effect of Environmental Fluctuations and Group Size on Parasite Loads in the African Elephant (*Loxodonta africana*) in Etosha National Park, Namibia (in preparation)
67. Feldman DE, Solow-Cordero D, Wu J, Cao H, Kambham N, **Bouley DM** and Koong AC: Irestatin, a small molecule inhibitor of ire1 alpha is a hypoxia- and ER stress-selective cytotoxin and impairs tumor growth. (in preparation)

ABSTRACTS/RESEARCH PRESENTATIONS

1. Springer M, Hortelano G, **Bouley DM**, Kraft P, Wong J, Blau H: Implantation of encapsulated myoblasts expressing VEGF in non-muscle sites induces localized angiogenesis. (*Proc Amer Soc Gene Therapy*, 1999).
2. Chen L, **Bouley DM**, Yuh E, D'Arceuil H, Butts K: Comparison of focused ultrasound tissue damage on MRI and histology in rabbit brain. International Society for Magnetic Resonance, Philadelphia, p. 673, 1999.
3. Chen L, **Bouley DM**, Yuh E, D'Arceuil H, Butts K: Study of the behavior of focused ultrasound lesions with MRI and histology. American Association of Physicists in Medicine Annual meeting Issue Nashville, Tennessee. (*Med Physics* 26: 1105-1106, 1999).
4. Chen L, **Bouley DM**, Harris B, Butts K, Study of cell viability in MR imaged focused ultrasound lesion in vivo in rabbit brain. International Society for Magnetic Resonance in Medicine, 2000
5. Chen L, **Bouley DM**, Harris B, Butts K: Cell viability in MR imaged focused ultrasound lesions in the in vivo rabbit brain, 3rd Interventional MRI Symposium, Leipzig, 2000.
6. Chen L, **Bouley DM**, Harris B, Butts K: Quantitative comparison of MR imaged focused ultrasound lesions and cell death zones in the in vivo rabbit brain. Chicago World Congress (*Med Physics*, 27: 1390, 2000).
7. Harris BT, **Bouley DM**, DeKruyff R, Umetsu D, McIntire J: A congenic mouse line with paraparesis displaying numerous CNS axonal spheroids: a possible animal model for neuroaxonal dystrophy (*Brain Pathol* 10:508, 2000).
8. Daniel BL, Freeman LJ, Pyzoha JM, McCoy TD, Birdwell RL, **Bouley DM**: The MRI-Compatible Mammotome. Oral Presentation number 271 Radiological Society of North America, Chicago, 2000.
9. Butts K, Daniel B, Chen L, **Bouley DM**, Wansapura J, Maier S, Dumoulin C, Watkins R: Diffusion and Contrast Enhanced MRI of the Acute Cryolesion, Radiological Society of North America, Chicago, IL., Nov. 2001
10. **Bouley DM**, Barry P, Larson M: Systemic cytomegalovirus infection in a xenograft transplant recipient cynomolgus macaque. American College of Veterinary Pathologists (*Vet Path* #43, 38: 580, 2001).
11. Sommer G, Butts K, Chen L, Daniel B, **Bouley D**, Gill H, Ross A, Nau W, Diederich C: MRI-guided in vivo evaluation of high-power catheter-based ultrasonic applicators designed for prostate tissue ablation: Winner of best paper award (North America) ESUR-SUR combined

scientific sessions, Genoa, Italy, June 14-20, 2002.

12. Beckwith CS, **Bouley DM**, Lifland BD, Garcia MA, Simkins MD, Otto G: Necrotizing laryngitis in three squirrel monkeys, American Association of Laboratory Animal Science Annual Meeting (*J Comp Med* #96, 41:110, 2002).
13. Parker SM, **Bouley DM**, McIntire JJ, Hadar E, Coryell RJ, Ching KHL, Hayflick SJ: A novel mouse model of infantile neuraxonal dystrophy. 52nd Annual American Society of Human Genetics meeting, abstract number 2051 (*Am J Human Genetics* Supplement to Volume 71(4), 2002).
14. Ross AB, Diederich CJ, Nau WH, Tyreus PD, Gill H, **Bouley D**, Butts RK, Rieke V, Daniel BL, Sommer G: Magnetic resonance guided directional transurethral ultrasound thermal therapy. The International Society for Optical Engineering, San Jose, CA Jan 27, 2003.
15. Ross A, Diederich CJ, Nau W, Tyreus PD, **Bouley D**, Daniel B, Rieke V, Butts K, Sommer G, Highly selective transurethral ultrasound applicators for MR-guided thermal coagulation of prostatic tissue: Theoretical and in vivo studies. First International Congress on Stress Response in Biology and Medicine, Quebec City, Canada, 2003.
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17. Nau WH, Diederich CJ, Ross A., Butts K, Rieke V, **Bouley D**, Gill H, Daniel B, and Sommer G. MR-guided conformal heating of canine prostate using interstitial applicators. International Society for Optical Engineering Conference. (*SPIE* 4954, 220, 2003)
18. Ross A, Diederich CJ, Nau W, Tyreus PD, Gill H, **Bouley D**, Daniel B, Rieke V, Butts K, Sommer G: MRI-guided transurethral ultrasound applicators for precise thermal ablation of prostatic disease. International Congress of Hyperthermic Oncology, St. Louis, 2004
19. Sommer G, Butts K, **Bouley D**, Daniel B, Ross T, Nau W, Diederich C: Correlation of real-time MRTI and post-treatment MRI with histologic depiction of prostatic. Paper number 477, International Society for Magnetic Resonance in Medicine, Kyoto, Japan, May, 2004.
20. Matz, EK, **Bouley, DM**, Green, SL: Field Survey: South African Clawed Frogs (*Xenopus laevis*) in Golden Gate Park, San Francisco, CA. Wildlife Disease Association International Conference, Proceedings, Cairns, Australia, 2005
21. Butts Pauly K, Rieke V, Pisani L, Sommer G, **Bouley D**, Diederich C, Ross A, Nau W, Kinsey A, Dumoulin C, Watkins R: Assessment of thermometry during high intensity ultrasound ablation of the canine prostate, International Society for Therapeutic Ultrasound, Boston MA, 2005.

22. Baxter JRW, **Bouley DM**, Buckmaster CL, Lifland B, Lyons D, Otto G: Acute pneumonia in a young male squirrel monkey (*Saimiri sciureus sciurus*), American Association of Laboratory Animal Science National Meeting, St. Louis, MO 2005.
23. **Bouley DM**, Daniel B, Butts Pauly K, Liu E, Diederich C, Nau W, Sommer G: Acute histopathological changes in canine prostates treated with high intensity ultrasound or cryosurgery: correlation with contrast enhanced MR imaging. 14th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Seattle WA, May 2006.
24. Liu E, **Bouley D**, Daniel B, Butts Pauly K: Dynamic Contrast Enhanced Imaging After Canine Prostate Cryoablation, 14th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Seattle WA, May 2006.
25. Chen J, Daniel B, **Bouley D**, Sommer G, Butts Pauly K, Investigation of DWI to Evaluate Prostate Thermal and Cryo Lesions. 14th Scientific Meeting of the International Society for Magnetic Resonance in Medicine. Seattle WA, May 2006.
26. Gagnon A, Muhammad S, **Bouley DM**, Green S: Hematological analyses and serum biochemistries of wild caught *Xenopus laevis*: a field study. 55th Annual Meeting of the Wildlife Disease Association, Storrs, CT, August 6-10, 2006.
27. Chen J, Daniel B, **Bouley D**, Sommer G, Butts Pauly K: Evaluation of thermal and cryo lesions by diffusion-weighted MRI. Proc. 43rd Meeting of the Society for Cryobiology, Hamburg, 2006.
28. Chen J, Daniel B, **Bouley D**, Sommer G, Butts Pauly K: DWI Evaluation of Prostate Cryoablation Lesions. Proc. 6th Interventional MRI Symposium, Leipzig, 2006.
29. **Bouley DM**, Daniel B, Butts Pauly K, Liu E, Diederich C, Nau W, Sommer G. Correlation of Histopathology of minimally invasive thermal or cryoablation cancer treatments with contrast-enhanced MR images in normal dog prostates. American College of Veterinary Pathologists (*Vet Path* #109 43:833, 2006)
30. Chen J, Daniel B, **Bouley D**, Sommer G, and Butts Pauly K: Evaluation of thermal and cryo lesions by diffusion-weighted MRI Proc. International Society for Optical Engineering Conference (*SPIE* 6440, 644007, 2007)
31. Diederich CJ, Nau WH, Kinsey A, Ross T, Wootton J, Juang T, Butts-Pauly K, Ricke V, Liu EH, Chen J, **Bouley DM**, Van den Bosch M, and Sommer G: Prostate thermal therapy with catheter-based ultrasound devices and MR thermal monitoring Proc. International Society for Optical Engineering Conference (*SPIE* 6440, 64400D, 2007)
32. Farrel K, **Bouley DM**, Green S: Seasonal Oogenesis in Feral South African Clawed Frogs (*Xenopus laevis*) in Golden Gate Park, San Francisco, CA. Association of Reptilian and

Amphibian Veterinarians Conference, New Orleans, LA, April 14-18, 2007

33. Van den Bosch, MA., Liu, EH., Josan, S., Butts-Pauly, K., **Bouley, DM.**, Daniel, BL. Ice ball imaging during cryoablation of canine prostates: Contrast-enhanced MRI provides most accurate delineation of the acute necrotic zone 15th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Toronto, May 2007).
34. **Bouley, DM.**, Liu, E., Butts Pauly, K., Van den Bosch, M., Daniel, B. Evaluation of Subacute and Chronic Cryotherapy Lesions Using Histopathology and Contrast Enhanced MR Images in the Dog Prostate Model (15th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Toronto, May 2007)
35. **Bouley, DM.**, Daniel, B., Butts Pauly, K., Diederich, C., Sommer, G. Histopathology of subacute to chronic cryoablation and high intensity ultrasound (HIU) lesions correlated to contrast-enhanced (CE) MR-images in normal dog prostates. American College of Veterinary Pathologists (*Vet Path* #106 44:759, 2007)
36. Rieke, V., Chen, J., Holbrook, AB., **Bouley, DM.**, Diederich, CJ., Sommer, G., Butts Pauly, K. High-intensity ultrasound ablation of the canine prostate: monitoring and post-procedural assessment with magnetic resonance imaging (World Conference on Interventional Oncology, Washington DC, May 2007)
37. Holbrook A, **Bouley D**, Alley M, Daniel B, Butts Pauly K, In vivo assessment of canine prostate cryoablations with magnetization transfer imaging. , ISMRM, Berlin Germany May 2007, p. 3375.
38. Holbrook A, Josan S, **Bouley D**, Daniel B, Butts Pauly K, Acute and Chronic Magnetization Transfer Ratio Observations in Canine Cryoablation, ISMRM, Toronto, May 2008 p. 1242.
39. Josan S, Chen J, Holbrook A, van den Bosch M, **Bouley D**, Daniel B, Butts Pauly K, MRI-guided Cryoablation - In vivo assessment of canine prostate cryolesions. *Poster 56 session at the World Conference on Interventional Oncology, Los Angeles, California, June 2008.*

Invited Presentations

- July 1994 "The reconstituted SCID mouse as a model of herpetic stromal keratitis". Schapens Eye Institute, Boston, MA.
- Jan 1995 "The reconstituted SCID mouse as a model of herpetic stromal keratitis". Children's Hospital Research Center, Department of Infectious Diseases, Cincinnati, OH.
- Feb 2000 "Alternative Careers for Veterinary Pathologists: My life as a pathologist in a

medical school", and "Laboratory Animal Gross Pathology", Department of Pathobiology, UTCVM, Knoxville, Tennessee.

- July 2000 "The Role of a Veterinary Pathologist in a Medical School" and "Laboratory Animal Gross Pathology" presented to the Department of Pathobiology, University of Connecticut, Storrs, CT.
- Apr 2001 "The Role of a Veterinary Pathologist in a Medical School", presented to Pathology Club, University of Georgia, Athens, GA.
- Nov 2002 "The Role of a Veterinary Pathologist in a Medical School", Presented to Pathology Club, University of California, Davis, Davis, California.
- Oct 2004 "The Role of a Veterinary Pathologist in a Medical School", Presented to Pathology Club, University of California, Davis, CA.
- Nov 2005 "Basic Pathology Information for Mouse Users in Tumor Modeling" Radiation Biology Retreat, Stanford School of Medicine
- Feb 2006 "The Role of a Veterinary Pathologist in a Medical School" and "Laboratory Animal Gross Pathology" presented to the Pathology Department, Massey University College of Veterinary Medicine, Palmerston North, New Zealand

Case Presentations

- July 1999 "Eosinophilic Crystalline Inclusion Disease in C57Bl/6 mice", AAVDL Annual Meeting, San Diego AC.
- Dec 2000 "Neuroaxonal Dystrophy in the C.D2 ES Hba mouse", ACVP Annual Meeting, Neuropathology Mystery Slide Session, Amelia Island, FL.
- Sep 2002 "Nephrosclerosis in a Rhesus Macaque (*Macaca mulatta*)", Primate Pathology Workshop, Monterey, CA.
- Dec 2002 "Ganglioneuroblastoma in a nude mouse" ACVP Annual Meeting, Neuropathology Mystery Slide Session, Salt lake City, Utah
- Oct 2003 "Polyarteritis Nodosa in Cynomolgus Macaques: Muddying the Waters in Transplant Recipients", Primate Pathology Workshop, Washington National Primate Research Center, University of Washington, Seattle, WA
- Oct 2004 "Primary Lung Neoplasia in a Rhesus Macaque (*Macaca mulatta*), Primate Pathology Workshop, Wake Forest University, Wake Forest, NC.
- Dec 2006 "Neat Rodent Neuro Cases" ACVP Annual Meeting, Neuropathology Mystery Slide Session, Tucson, AZ.

Sept 2007 "Calcinosis Circumscripta in a Cynomolgus Macaque", Primate Pathology
Workshop, Monterey, CA