

**CURRICULUM VITAE**  
**Jonathan Michael Levine, BS, DVM, DACVIM (Neurology)**  
**August 2011**

**PRESENT POSITION AND ADDRESS:**

Title: Assistant Professor, Neurology/Neurosurgery  
Office: Department of Veterinary Medicine and Surgery      Phone: (979) 845-2351  
Texas A&M University  
College of Veterinary Medicine  
4474 TAMU  
College Station, TX 77843

**EDUCATION:**

<b><u>Degree/Training</u></b>	<b><u>Conferring Institution</u></b>	<b><u>Field</u></b>	<b><u>Year</u></b>
Neurology Residency	University of Missouri Texas A&M University	Neurology	2003-2005 2002-2003
Internship	Colorado State University	Small Animal Medicine and Surgery	2001-2002
Doctor of Veterinary Medicine (with Distinction – class rank 1/78)	Cornell University		2001
Bachelor of Science (with Distinction)	Cornell University	Biology	1995

**PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS:**

**Academic Appointments:**

*Assistant Professor-Neurology/Neurosurgery*, Department of Small Animal Clinical Sciences, College of Veterinary Medicine, Texas A&M University, **January 2006 – present**

***Co-Chief of Surgery Section***, Department of Small Animal Clinical Sciences, College of Veterinary Medicine, Texas A&M University, **September 2011-present**

***Adjunct Assistant Professor-Pediatric Surgery***, University of Texas Medical School at Houston, **June 2010-present**

***Member, Graduate Faculty***, Texas A&M Health Science Center, **June 2011-present**

***Member, Graduate Faculty***, Texas A&M University, **April 2009-present**

***Clinical Assistant Professor-Neurology/Neurosurgery***, Department of Small Animal Clinical Sciences, College of Veterinary Medicine, Texas A&M University, **January 2005 – January 2006**

***Resident-Neurology/Neurosurgery***, Department of Veterinary Medicine and Surgery, College of Veterinary Medicine, University of Missouri, **July 2003 – January 2005**

***Resident-Neurology/Neurosurgery***, Department of Small Animal Medicine and Surgery, College of Veterinary Medicine, Texas A&M University, **July 2002 – June 2003**

***Intern-Small Animal Medicine and Surgery***, Department of Clinical Sciences, College of Veterinary Medicine, Colorado State University, **June 2001 – July 2002**

### **CLINICAL SPECIALTY/BOARD CERTIFICATION:**

#### **Board Certification:**

Diplomate, American College of Veterinary Internal Medicine (Neurology), 2005-present

#### **Veterinary Licenses:**

Texas, Active 2002-present

California, Active 2001 – present

Colorado, Active, 2001-2003

### **AWARDS AND HONORS:**

TVMA Faculty Research Award, Texas A&M University, 2009

SCVMA Small Animal Intern of the Year Award – Colorado State University, 2002

Horace K. White Prize, 2001

Neuroanatomy and Clinical Neurology Prize, 2001

The ACVO Award, 2001

The Alan Hart Clinical Proficiency Award, 2001

Hugh Dukes Prize in Experimental Physiology, 2001  
 Mary Louise Moore Prize, 2001  
 Merck Manual Award, 2001  
 New York State Veterinary Medical Society Prize – Honorable Mention, 2001  
 Pfizer Animal Health Scholarship, 2000  
 Phi Zeta Honor Society, 2000  
 Milton Scholarship (full tuition merit award), 1998-2000  
 Sewell Metzger Memorial Scholarship, 2000  
 St. John Scholarship, 1998  
 Koppstein Scholarship, 1997  
 NYSVMA Scholarship, 1997-1998  
 Academic Commendations all semesters of veterinary school

### **TEACHING EXPERIENCE:**

#### **Professional:**

<u>Course Title</u>	<u>Institution</u>	<u>Credit Hr</u>	<u>% of Course</u>	<u>Formal Contact Hr</u>	<u>Dates</u>
VTPP 925	TAMU	3 hr	3%	1	Spring 2011
VIBS 603	TAMU	2 hr	3%	1	Fall 2009
VSCS 948-312	TAMU	1 hr	33%	4	Fall 2008
VAPH 913	TAMU	4-8 hr	5%	9	2006-present
VSAM 955	TAMU	6 hr	10%	12	2006-present
VTPB 948	TAMU	1 hr	5%	1	Spring 2006
VTPB 948	TAMU	1 hr	5%	1	Spring 2005
VAPH 913	TAMU	4-8 hr	5%	6	Spring 2005
VMS 643	MU	N/C	15%	6	2003-2004
VTPP 910	TAMU		2%	3	Fall 2003
VAPH 913	TAMU	4-8 hr	5%	8	Spring 2003
VSAM 948-329	TAMU	1 hr	2%	1.5	Spring 2003
VMID	TAMU	12 hr	1%	2	Fall 2002

#### **Intern and Resident Teaching Activities:**

MRI Rounds	TAMU	N/C	100%	2/mo.	2008-Present
Neurosurgery Lab	TAMU	N/C	33%	1/smstr	2008-Present
Neuropathology Rnds	TAMU	N/C	25%	1/mo.	2005-Present
Surgery Journal Club	TAMU	N/C	10%	2/smstr	2005-Present
Med Journal Club	TAMU	N/C	5%	1/smstr	2005-Present
House officer Rnds	TAMU	N/C	10%	6/smstr	2006-2009

Electrophysiology lab	TAMU	N/C	100%	3	Spring 2009
Med Rounds	TAMU	N/C	20%	8	Fall 2007
ECC Rounds	TAMU	N/C	2%	2	2005
Intern Rounds	MU	N/C	2%	2	2003-2004
Medicine CPC	MU	N/C	2%	2	2003-2004

**Advisees:**

<u>Name</u>	<u>Training Program</u>	<u>Outcome</u>
William Draper, DVM	Internship (TAMU), 2008	Neurology Residency, Univ. of FL
Robert Rushing, DVM	Internship (TAMU), 2009	Neurology Residency, Dallas, TX
Jocelyn Cooper, DVM	Residency (TAMU), 2009	3rd Year Neurology Resident
Amanda Taylor, DVM	Residency (TAMU), 2011	1 <sup>st</sup> Year Neurology Resident

**EXTRAMURAL GRANTS:****Funded Proposals**

DoD SC100140	Noble (PI)	\$916,931	10/1/11-10/1/14
Matrix metalloproteinases as a therapeutic target to improve neurological recovery after spinal cord injury			
Role: Co-PI			
UT Houston Health Science Center	Levine (PI)	\$39,950	3/1/11-3/1/13
Development of a canine brain tumor tissue bank			
Role: PI			
Ibizan Breed Association	Dindot (PI)	\$2,000	2/20/11-2/20/12
Identification of the genetic basis of a neurodegenerative disease in Ibizan Hounds.			
Role: Co-PI			
Mission Connect Foundation	Grill/Levine (PI)	\$7,837	2/7/11-2/7/12
Histomorphometric comparison of spinal cord injury pathology in the dog and rat as a phase I in establishing a small animal/large animal pipeline			
Role: PI			
Dana Foundation	Cooper (PI)	\$200,000	1/1/10-1/1/12
T-cell therapy for diffuse interstitial pontine glioma			
Role: Co-PI			
Medtronics Inc	Hicks (PI)	\$15,000	5/1/09-5/1/10

Development of kyphoplasty in dogs.

Role: Co-I

American Kennel Club 1099            Schatzberg (PI)            \$67,612            9/11/08-9/11/10  
Degenerate PCR for detection of viral, bacterial, and rickettsial genera in pugs and maltese dogs with necrotizing and granulomatous meningoencephalitis.

Role: Co-I

American Kennel Club 01180-A    Levine (PI)            \$12,000            6/8/08-12/31/09  
The prognostic value of various cerebrospinal fluid biomarkers in dogs with acute thoracolumbar disk herniation

Role: PI

American Kennel Club ACORN    Stoica/Levine (PI)    \$12,000            11/06/07-11/06/08  
Adult Neurogenesis: A Source of Dog Glioblastoma Multiforme (GBMs).

Role: PI

NIH R01 NS039278 (Supp)        Noble (PI)            \$56,000            5/1/07-5/1/09  
The influence of GM-6001 on recovery from disk herniation in dogs. National Institutes of Neurological Disorders and Stroke – Collaborative Activities to Promote Translation Research (CAPTR) Grant.

Role: Co-I

Scott and White Health Sciences    Chaput (PI)            \$12,000            1/1/07-1/1/09  
The Influence of OP-1 on Proteoglycan Synthesis and Disc Height Restoration in Dachshunds with Acute Disk Herniation.

Role: Co-PI

**INTRAMURAL GRANTS:**

Post-doc Trainee Award            Taylor/Levine (PI)    \$10,000            12/15/11-12/15/12  
Accuracy, diagnostic yield and safety of frameless stereotactic brain biopsy in dogs.

TAES PUF Fund                      Levine (PI)            \$35,000            3/2009  
Canine Frameless Stereotactic Biopsy Equipment.  
Role: PI

Dean's Office Grant                Levine (PI)            \$10,000            12/11/08  
Canine Glioma Genetics – Seed  
Role: PI

LA Sci Clin Research Award        Levine (PI)            \$3,300            2/21/08

Equine Cervical Vertebral Malformation-Malarticulation (CVM): Diagnosis and Outcome.

Role: PI

Ginn Fund Levine (PI) \$15,000 8/1/07

Pharmacokinetics of GM-6001 (Illomastat) in dogs. Ginn Fund Award.

Role: PI

Ginn Fund Levine (PI) \$8,000 5/9/06

Heart rate variability as a prognostic indicator in thoracolumbar spinal cord injury due to intervertebral disk disease.

Role: PI

MU-CVM Teaching Enhancement Coates (PI) \$6,141

Media center for neurology rotation

Role: Co-I

### **RESEARCH/SCHOLARLY ACTIVITIES:**

#### **Ongoing Funded Research Projects:**

**Levine JM**, Cohen ND, Halbert N, Derr J, Murphy K. microRNA in canine glioma.

**Levine JM**, Nobel LJ. Matrix metalloproteinase inhibition by GM 6001 in dogs with thoracolumbar disk herniation.

Schatzberg SJ, Greene C, **Levine JM**, Platt SR, Kent M. Degenerate PCR for detection of viral, bacterial, and rickettsial genera in pugs and maltese dogs with necrotizing and granulomatous meningoencephalitis.

**Levine JM**, Gildenberg P, Fletcher S, Cohen ND. Application accuracy of an image-guided intracranial biopsy technique for dogs.

**Levine JM**, Cooper L. Development of a T cell therapy for dogs with glioma.

#### **Ongoing Unfunded Research Projects:**

Dindot S, **Levine JM**. Deletion-duplication mutations associated with seizure activity in dogs.

Cooper JJ, **Levine JM**, Young BD, Kerwin SC, Fosgate GT. Accuracy of MRI compared to CT for detecting vertebral column disease in dogs.

#### **Additional Research Activities:**

Yale School of Medicine, Howard Hughes Medical Institute, New Haven, CT

- Summer intern for Richard Flavell, PhD, Chairman of Immunobiology 1997-1998
- Conducted research on lymphocyte intracellular signaling

Harvard Medical School, Center for Blood Research, Boston, MA

- Research Assistant for Fred Alt, PhD, Janeway Professor of Immunology, 1996-1997
- Investigated B-cell signaling and development

## **BIBLIOGRAPHY:**

### **Manuscripts In Press or Submitted**

Griffin JF, Cohen ND, Young BD, Eichelberger BM, Padua A, Purdy D, **Levine JM**. Thoracic and lumbar spinal cord diffusion tensor imaging in dogs. (Submitted, *J Magn Reson Imaging*, Feb 2012)

Lin Y, Yang J, Zhu VF, Chen Y, Wang Y, Yan W, Jiang T, Hergenroeder GW, Fletcher SA, **Levine JM**, Kim DH, Zhu JJ, Li M. Gene profile of zinc transporters predicts glioma survival. (Submitted, *J Natl Cancer Inst*, Dec 2011).

Barber RM, Porter BF, Li Q, Greer KA, May M, Claiborne MK, Allison AB, Howerth EW, Butler A, Roune S, Wei S, **Levine JM**, Levine GJ, Brown DR, Tong S, Schatzberg SJ. Broadly reactive methodologies for pathogen detection in canine granulomatous meningoencephalomyelitis and necrotizing meningoencephalitis. (In Revision, *J Vet Intern Med* Nov 2011)

Wolff CA, Holmes SA, Young BD, Allen-Chen AV, Kent M, Platt SR, Savage M, Schatzberg SJ, Fosgate GT, **Levine JM**. Magnetic resonance imaging for the identification and differentiation of histopathologically confirmed neoplastic, inflammatory, and cerebrovascular brain diseases in the dog. (In Press, *J Vet Intern Med*, Nov 2011)

Fulkerson CB, Young BD, Jackson ND, Porter BF, **Levine JM**. Magnetic resonance imaging characteristics of cerebral microbleeds in four dogs. (In Press, *Vet Radiol Ultrasound*, September 2011)

Hettlich BF, Kerwin SC, **Levine JM**. Early re-herniation after hemilaminectomy for thoracolumbar intervertebral disk disease in 11 dogs (In Press, *Vet Surg*, June 2011).

Whitley DB, **Levine JM**, Kerwin SC, Porter BF. Degenerative encephalopathy in an Ibizian Hound. (Accepted for poster, American College of Veterinary Pathology Abstract, August 2011).

Witsberger TH, **Levine JM**<sup>\*</sup>, Slater MR, Kerwin SC, Russell KE, Fosgate GT, Levine GJ. Cerebrospinal fluid biomarkers and neurologic outcome in dogs with thoracolumbar disk

herniation. (In Press, *J Am Vet Med Assoc*, Apr 2010).

### **Published Manuscripts**

1. **Levine JM**. Intervertebral disk herniation – comparative imagery. *Clinician's Brief* 2012; 10: 18-20.
2. **Levine JM**. Vertebral column MRI. *Clinician's Brief* 2012; 10: 65-68.
3. Lang LG, Griffin JF IV, **Levine JM**, Breitschwerdt EB. Magnetic resonance imaging lesions in the central nervous system of a dog with Canine Monocytic Ehrlichiosis. *Case Reports Vet Med* 2011; 2011: 1-5.
4. Fryer K, **Levine JM\***, Peycke L, Thompson J, Cohen ND. Incidence of post-operative seizures with and without levetiracetam pre-treatment in dogs with congenital portosystemic shunts. *J Vet Intern Med* 2011; 25: 1379-1384.
5. Greatting HH, Young BD, Pool RR, **Levine JM**. Letter to the editor –diffuse idiopathic skeletal hyperostosis in a dog. *Vet Radiol Ultrasound* 2011; 52: 472-473.
6. Scrivani PV, **Levine JM**, Holmes NL, Furr M, Divers TJ, Cohen ND. Observer agreement study of cervical vertebral ratios in horses. *Equine Vet J* 2011; 43: 399-403.
7. Blair WH, **Levine JM\***, Kerwin SC, Spaulding KA, Young BD, Pool RR. Imaging diagnosis – synovial myxoma of lumbar vertebrae articular process joint. *Vet Radiol Ultrasound* 2011; 52: 309-312.
8. **Levine JM**, Levine GJ, Porter BP, Topp K, Noble-Haesslein LJ. Naturally occurring disk herniation in dogs: an opportunity for pre-clinical spinal cord injury research. *J Neurotrauma* 2011; 28:675-688.
9. Young BD, **Levine JM**, Porter BF, Chen-Allen AV, Rossmeis JH, Platt SR, Kent M, Schatzberg SJ. Magnetic resonance imaging features of intracranial astrocytomas and oligodendrogliomas in dogs. *Vet Radiol Ultrasound* 2011; 52: 132-141.
10. Stoica G, **Levine JM**, Wolff J, Murphy K. Canine astrocytic tumors – a comparative review. *Vet Pathol* 2011; 48:266-275.
11. Cooper JJ, Young BD, Hoffman AG, Bratton G, Hicks DG, Tidwell A, **Levine JM**. Intracranial magnetic resonance imaging artifacts and pseudolesions in dogs and cats. *Vet Radiol Ultrasound* 2010; 51:587-595.
12. **Levine JM**, Scrivani PV, Divers TJ, Furr M, Mayhew IJ, Reed S, Levine GJ, Foreman



- JH, Boudreau C, Tennent-Brown B, Cohen ND. Multicenter case-control study of signalment, diagnostic features, and outcome associated with cervical vertebral malformation-malarticulation in horses. *J Am Vet Med Assoc* 2010; 237:812-822.
13. **Levine JM**. Intervertebral Disk Herniation. *Canadian Vet* 2010; Jul/Aug: 16-18.
  14. Levine GJ, **Levine JM\***, Witsberger TH, Kerwin SC, Russell KE, Sucholdoski J, Steiner JM, Fosgate GT. Cerebrospinal fluid myelin basic protein as a prognostic biomarker in dogs with thoracolumbar intervertebral disk herniation. *J Vet Intern Med* 2010; 24:890-896.
  15. Hettlich BF, Fosgate GT, **Levine JM**, Young BY, Kerwin SC, Walker MA, Griffin JF, Maierl J. Accuracy of conventional radiography and computed tomography in predicting implant position in relation to the vertebral canal in dogs. *Vet Surg* 2010; 39:680-687.
  16. Dewey CW, Cerda-Gonzalez S, Fletcher DJ, Harb-Hauser MF, **Levine JM**, Badgley BL, Olby NJ, Shelton GD. Mycophenolate mofetil treatment in dogs with serologically diagnosed acquired myasthenia gravis: 27 cases (1999-2008). *J Am Vet Med Assoc* 2010; 236: 664-668.
  17. Barber RB, Li Q, Diniz PPVP, Porter BF, Breitschweid EB, Claiborne MK, Birkenheuer AJ, **Levine JM**, Levine GJ, Chandler K, Greer K, Kenny P, Nghiem PP, Wei S, Greene CE, Kent M, Platt SR, Schatzberg SJ. Evaluation of brain tissue and/or cerebrospinal fluid with broadly reactive PCR for Ehrlichia, Anaplasma, spotted fever group Rickettsia, Bartonella, and Borrelia species in canine neurological diseases (109 cases). *J Vet Intern Med* 2010; 24:372-378.
  18. Cooper JJ, **Levine JM\***, Young BD, Hicks DG, Hoffman A, Bratton GR. Imaging diagnosis: MRI pseudolesion associated with the petrous temporal bone. *Vet Radiol Ultrasound* 2010; 51:39-41.
  19. Snyder K, Saunders AB, **Levine JM**, Clubb FJ. Arrhythmias and elevated troponin I in a dog with steroid-responsive meningitis-arteritis. *J Am Anim Hosp Assoc* 2010; 46:61-65.
  20. Dewey CW, Cerda-Gonzalez S, **Levine JM**, Badgley BL, Ducote JM, Silver GM, Cooper JJ, Packer RA, Lavelly JA. Pregabalin as an adjunct to phenobarbital, potassium bromide, or a combination of phenobarbital and potassium bromide for treatment of dogs with suspected idiopathic epilepsy. *J Am Vet Med Assoc* 2009; 235:1442-1449.
  21. Schatzberg SJ, Li Q, Porter BF, Claiborne MK, **Levine JM**, Levine GJ, Israel SK, Young BD, Kiupel M, Greene C, Ruone S, Anderson L, Tong S. Broadly Reactive Pan-Paramyxovirus RT PCR for the Detection of Canine Distemper Virus in a Case of Canine Meningoencephalitis of Unknown Etiology. *J Vet Diag Invest* 2009;21:844-849

22. **Levine JM**, Fosgate GT, Chen AV, Rushing R, Nghiem PP, Platt SR, Bagley RS, Kent M, Hicks DG, Young BD, Schatzberg SJ. Magnetic resonance imaging findings associated with neurologic impairment in dogs with acute thoracic and lumbar intervertebral disk herniation. *J Vet Intern Med* 2009;23:1220-1226.
23. Witsberger TH, **Levine JM\***, Kerwin SC, Slater M, Levine GJ. Cerebrospinal fluid analysis and neurologic outcome at discharge after surgical treatment of thoracolumbar disc herniation. *Vet Surg* 2009;38:E49 (Abstract).
24. **Levine JM**, Fosgate GT. Editorial: Medical record-derived functional assessments of spinal cord injury. *J Small Anim Pract* 2009;50:507-508.
25. Young BD, **Levine JM**, Fosgate GT, de Lahunta A, Flegel T, Matiasek K, Miller A, Silver G, Sharp NJH, Greer K, Schatzberg SJ. Magnetic resonance imaging characteristics of necrotizing meningoencephalitis in Pugs. *J Vet Intern Med* 2009;23:527-535
26. Stoica G, Lungu G, Martini-Stoica H, Waghela S, **Levine JM**, Smith III, R. Identification of cancer stem cells in dog glioblastoma. *Vet Pathol* 2009;46:391-406
27. Griffin JF, **Levine JM\***, Kerwin SC. Thoracolumbar intervertebral disk disease part I: pathophysiology *Comp Cont Educ Pract Vet* 2009; March:E1-E13
28. Griffin JF, **Levine JM\***, Kerwin SC, Cole RC. Canine Thoracolumbar intervertebral disk disease part II: diagnosis, prognosis and treatment *Comp Cont Educ Pract Vet* 2009; March:E1-E14
29. Israel SK, **Levine JM\***, Kerwin SC, Levine GJ, Fosgate GT. The relative sensitivity of computed tomography and myelography for identification of thoracolumbar disk herniation in dogs. *Vet Radiol Ultrasound* 2009; 50:247-252
30. Griffin JF, Young BD, **Levine JM**. Imaging Diagnosis: chronic distemper meningoencephalitis in a dog. *Vet Radiol Ultrasound* 2009; 50:182-184
31. Levine GJ, **Levine JM\***, Budke C, Slater M, Kerwin SC, Au J, Vinayak A, Hettlich BF, Slater MR. Inter-observer variability associated with 2 spinal cord injury scales for dogs. *Prev Vet Med* 2009; 89:121-127
32. Eagleston JS, Diaz J, Kent M, **Levine JM**, Platt SR, Sharp NJH, Schatzberg SJ. Cervical vertebral malformation-malarticulation in the bernese mountain dog: clinical and magnetic resonance imaging features. *J Small Anim Pract* 2009; 50:186-193
33. Alonsio F, **Levine JM**, Edwards J. Immunohistochemical features of a feline spinal cord gemistocytic astrocytoma *J Vet Diagn Invest* 2008; 20: 836-838

34. **Levine JM**, Ngheim, PP, Levine GJ, Cohen ND. Gender, breed, and age distribution in horses with the diagnosis of cervical vertebral compressive myelopathy. *J Am Vet Med Assoc* 2008; 233:1453-1458
35. Budke CM, **Levine JM**, Kerwin SC, Levine GJ, Hettlich BF, Slater MR. Evaluation of a questionnaire for obtaining owner-perceived, weighted quality-of-life assessments for dogs with spinal cord injury. *J Am Vet Med Assoc* 2008; 233:925-930.
36. **Levine JM**, Budke CM, Levine GJ, Kerwin SC, Hettlich BF, Slater MR. Owner-perceived, weighted quality-of-life assessments in dogs with spinal cord injury. *J Am Vet Med Assoc* 2008; 233: 931-935.
37. Bergman RL, **Levine JM**, Coates JR, Bahr A, Hettlich BF, Kerwin SC. Use of cervical spinal locking plates in combination with ring allografts for a one level fusion in dogs with cervical spondylotic myelopathy. *Vet Surg* 2008; 37: 530-536.
38. Griffin JF, **Levine JM**<sup>\*</sup>, Levine GJ, Fosgate GT. Meningomyelitis in dogs: a retrospective review of 28 cases (1999-2007). *J Small Anim Pract* 2008; 49:509-517.
39. **Levine JM**, Fosgate GT, Porter B, Schatzberg SJ, Greer K. Epidemiology of necrotizing meningoencephalitis in Pug dogs. *J Vet Intern Med* 2008; 22: 961-968.
40. Dewey CW, Cerda-Gonzales S, **Levine JM**, Badgley BL, Ducote JM, Silver GM, Cooper JJ. Pregabalin for refractory idiopathic epilepsy in dogs. *J Vet Intern Med* 2008; 22: 765. (Abstract)
41. Dewey CW, Harb-Hauser MF, Cerda-Gonzales S, **Levine JM**, Badgley BL, Olby NJ, Kent M, Birnbaum N, Shelton GD. Mycophenolate mofetil therapy for acquired myasthenia gravis in dogs: a comparative retrospective study (1999-2007). *J Vet Intern Med* 2008; 22: 721. (Abstract)
42. Baltzer WI, McMichael MA, Hosgood G, Kerwin SC, **Levine JM**, Steiner JM, Ruaux CG. Randomized, blinded, placebo-controlled clinical trial of N-acetylcysteine in dogs with spinal cord trauma from acute intervertebral disc disease. *Spine* 2008; 33: 1397-1402.
43. **Levine JM**, Levine GJ, Hoffman AG, Bratton GR. Comparative neuroanatomy of the ox and horse: brain and associated vessels *Equine Comp Cont Educ Pract Vet* 2008; 3: 153-164.
44. **Levine JM**, Levine GJ, Boozer L, Schatzberg SJ, Platt SR, Kent M, Kerwin SC, Fosgate GT. Adverse effects and outcome associated with dexamethasone administration in dogs with acute thoracolumbar disk herniation: 161 cases (2000-2006). *J Am Vet Med Assoc*

2008; 232: 411-418.

45. **Levine JM**, Levine GJ, Hoffman AG, Mez J, Bratton GR. Comparative neuroanatomy of the ox and horse: the vertebral column and peripheral nerves. *Equine Comp Cont Educ Pract Vet* 2007; 2: 279-292.
46. **Levine JM**, Adam E, MacKay RJ, Walker MA, Frederick JD, Cohen ND. Confirmed and Presumptive Cervical Vertebral Compressive Myelopathy in Older Horses: a Retrospective Study (1992-2004) *J Vet Intern Med* 2007; 21:812-819
47. **Levine JM**, Levine GJ, Johnson, SI, Kerwin SC, Hettlich BF, Fosgate GT. Evaluation of medical management for presumptive thoracolumbar disk herniation. *Vet Surg* 2007; 36: 482-491
48. **Levine JM**, Levine GJ, Johnson SI, Kerwin SC, Hettlich BF, Fosgate GT. Evaluation of medical management for presumptive cervical disk herniation. *Vet Surg* 2007; 36: 492-499
49. Baltzer WI, Calise DV, **Levine JM**, Shelton GD, Edwards JF, Steiner JM. Dystrophin-deficient muscular dystrophy in a weimaraner. *J Am Anim Hosp Assoc* 2007; 43:227-232
50. Griffin JF, **Levine JM**<sup>\*</sup>, Kerwin SC. Thoracolumbar intervertebral disk disease. *Compendium Standards of Care: Emergency and Critical Care Medicine* 2007; 9.4:1-8.
51. Levine GJ, Bissett WT, Cole RC, Janke J, Nunes JE, Porter B, **Levine JM**. Imaging Diagnosis – bacterial diskospondylitis in a goat. *Vet Radiol Ultrasound* 2006;47:585-588.
52. **Levine JM**, Levine GJ, Hettlich BF, Kerwin SC, Fosgate GT. Association between various physical factors and acute thoracolumbar intervertebral disk extrusion or protrusion in Dachshunds. *J Am Vet Med Assoc*, 2006; 229: 370-375.
53. Levine GJ, **Levine JM**<sup>\*</sup>, Walker MA, Pool RR, Fosgate GT. Evaluation of the association between spondylosis deformans and clinical signs of intervertebral disk disease in dogs: 172 cases (1999-2000). *J Am Vet Med Assoc*, 2006; 228: 96-100.
54. **Levine JM**, Ruaux CG, Bergman RL, Coates JR, Steiner JM, Williams DA. Matrix metalloproteinase-9 activity in the cerebrospinal fluid and serum of dogs with acute spinal cord trauma from intervertebral disk disease. *Am J Vet Res*, 2006; 67: 283-287.
55. **Levine JM**, Bergman RL, Coates JR, Shelton GD. Acquired myasthenia gravis in a dog with hypothyroidism and meningitis. *J Am Anim Hosp Assoc*, 2005; 41: 247-251.
56. Packer RA, Bergman, RL, Coates JR, Essman SC, Weis K, **Levine JM**, OBrien DP, Johnson GC. Intracranial subarachnoid hemorrhage following lumbar myelography. *J Vet*

*Intern Med*, 2005; 19: 222 (Abstract).

57. Thompson CA, Russell K, **Levine JM**, Weeks B. What's your diagnosis – cerebrospinal fluid from a dog with neurologic collapse. *Vet Clin Path*, 2003; 32: 143-146.
58. **Levine JM**, Fitch RB. The use of an orthosis in a dog with traumatic sciatic neuropathy. *J Small Anim Pract*, 2003; 44: 236-238.
59. **Levine JM**, Hillman RB, Erb HN, deLahunta A. The influence of age on the patellar reflex response in the dog. *J Vet Intern Med*, 2002; 16: 244-246.

**\* Second author paper where Dr. Levine acted as a mentor to a student or house officer that was manuscript 1<sup>st</sup> author.**

#### **Books and Electronic Products:**

**Levine JM**, Levine GJ. *Small Animal Neurology: An Interactive Course in Clinical Examination and Diagnosis*. Texas A&M University Press, College Station, TX. 2007. *Translated into Japanese with edition due 2011*

#### **Book Chapters:**

1. **Levine JM** and Fingeroth J. Intervertebral disk herniation: nomenclature and terminology. In: Thomas WB and Fingeroth J. *ACVS Manual on Disk Herniation*. Iowa State University Press 2012 (In submission).
2. Fingeroth J, Forterre F, **Levine JM**. Spinal cord compression versus injury. In: Thomas WB and Fingeroth J. *ACVS Manual on Disk Herniation*. Iowa State University Press 2012 (In submission).
3. **Levine JM**. Neuroprotection for acute SCI associated with intervertebral disk herniation. In: Thomas WB and Fingeroth J. *ACVS Manual on Disk Herniation*. Iowa State University Press 2012 (In submission).
4. **Levine JM**. Intervertebral Disk Herniation. In: Bonagura JD and Twedt DC. *Kirk's Current Veterinary Therapy XV*. Saunders 2011 (In Submission)
5. **Levine JM**, Levine GJ. Neurologic Disorders. In: Tveten and Willard. *Small Animal Clinical Diagnosis by Laboratory Methods 5<sup>th</sup> Edition*. Elsevier, St. Louis, Missouri, 2012, pp 304-314.
6. Kerwin SC, **Levine JM**, Hicks DG. Thoracolumbar Spine. In: Tobias K and Johnston S. *Veterinary Surgery Small Animal*. Elsevier, St. Louis, Missouri, 2011, pp 449-475.

7. **Levine JM.** Ataxia. In: Platt SR and Garosi L. *A Colour Handbook of Animal Neurological Emergencies*. Manson Publishing Ltd 2009 (In Press)
8. **Levine JM.** Vertebral Column Trauma. In: Tilley LP and Smith FWK. *Blackwell's Five-minute Veterinary Consult: Canine and Feline 5<sup>th</sup> ed.* Wiley-Blackwell, Ames, Iowa, 2011, pp.1311-1312
9. **Levine JM.** Ch 13: Brachial Plexus Injury. In: Blackwell's Five-minute Consultation Clinical Companion: Emergency and Critical Care. Mazzaferro EM (editor); Wiley-Blackwell, Ames, Iowa, 2010, pp. 99 - 104.
10. Levine, GJ, **Levine JM.** Ch 91: Seizures. In: Blackwell's Five-minute Consultation Clinical Companion: Emergency and Critical Care. Mazzaferro EM (editor); Wiley-Blackwell, Ames, Iowa, 2010, pp. 693-703.
11. Coates JR, **Levine JM.** The Neurological Examination. In: August JR. *Consultations in Feline Internal Medicine 5<sup>th</sup> ed.*, WB Saunders, 2005.

#### **Refereed Abstracts:**

1. Fletcher SA, **Levine JM**, Li M. Spontaneous brain tumors in dogs: an opportunity for application of novel therapeutics for human brain tumors. Innovations in Cancer Prevention and Research Conference, Austin, TX, November 15-17, 2011.
2. Shelton GD, **Levine JM**, Mizisin AP. Labrador retriever dogs: A new model of slow channel congenital myasthenic syndrome? 4<sup>th</sup> International Congress of Myology, Lille, France, May 9-13 2011
3. Johnston JC, Kerwin SC, Saunders WB, **Levine JM**, Witsberger T, Carroll G, Fajt V. Administration and timing of peri-operative cefazolin in a veterinary teaching hospital. Summer Veterinary Research Fellowship Conference and 10<sup>th</sup> Annual Merit-NIH National Veterinary Scholars' Symposium, 2010
4. Young BD, **Levine JM**, Porter BF, Chen-Allen AV, Rossmeisl JH, Platt SR, Fosgate GT, Schatzberg SJ. Magnetic resonance imaging features of astrocytic and oligodendroglial tumors. ACVR Conference, Ashville, NC 2010
5. Fletcher SF, Wolff J, **Levine JM**, Gildenberg PL. Curing brain tumors in dogs and children: The Texas Comparative Neuro-oncology Program. 14<sup>th</sup> Annual Symposium on Pediatric Neuro-Oncology, Vienna, Austria, 2010
6. Barber, B., Schatzberg, S., Li, Q., Greer, K., Porter, B., Diniz, P., Allison, A., May, M., **Levine, J.**, Levine, G., Breitschwerdt, E., Birkenheuer, A., Roune, S., Platt, S., Kent,

- M., Anderson, L., Brown, D., Tong, S. Broadly reactive methodologies for pathogen detection in canine granulomatous and necrotizing meningoencephalitis. The Science of Veterinary Medicine. UGA College of Veterinary Medicine Translational Medicine Symposium, Athens, Georgia, 2009.
7. Witsberger TH, **Levine JM**, Kerwin SC, Slater M, Levine GJ. Cerebrospinal fluid analysis and neurologic outcome at discharge after surgical treatment of thoracolumbar disc herniation. Abstract, 2009 ACVS Conference, Washington, D.C.
  8. Young BD, **Levine JM**, Fosgate GT, Greer K, Schatzberg SJ. Magnetic resonance imaging characteristics of necrotizing meningoencephalitis in Pugs. Abstract, 2008 ACVR Conference, San Antonio, TX
  9. Hettlich BF, Kerwin SC, **Levine JM**. Development of a modified splint for immobilization of the cervical spine. Abstract, 2008 ESVOT Conference, Munich, Germany
  10. Israel S, **Levine JM**, Kerwin SC, Fosgate GT. The accuracy of computed tomography versus myelography for thoracolumbar disk herniation in dogs. Abstract, 2008 ESVOT Conference, Munich, Germany
  11. **Levine JM**, Ngheim PP, Levine GJ, Cohen ND. Association of gender, breed, and age with cervical vertebral compressive myelopathy in horses. Abstract, 2008 AAEP Conference, San Diego, CA.
  12. Dewey CW, Cerda-Gonzales S, **Levine JM**, Badgley BL, Ducote JM, Silver GM, Cooper JJ. Pregabalin for refractory idiopathic epilepsy in dogs. Abstract, 2008 ACVIM forum, San Antonio, TX
  13. Dewey CW, Harb-Hauser MF, Cerda-Gonzales S, **Levine JM**, Badgley BL, Olby NJ, Kent M, Birnbaum N, Shelton GD. Mycophenolate mofetil therapy for acquired myasthenia gravis in dogs: a comparative retrospective study (1999-2007). Abstract, 2008 ACVIM forum, San Antonio, TX
  14. Hettlich BF, Kerwin SC, **Levine JM**. Early re-herniation of disk material after hemilaminectomy for thoracolumbar disk disease in 7 dogs. Proceedings of the European College of Veterinary Orthopedics and Traumatology, Munich, Germany 2006.
  15. Packer RA, Bergman, RL, Coates JR, Essman SC, Weis K, **Levine JM**, OBrien DP, and Johnson GC. Intracranial subarachnoid hemorrhage following lumbar myelography. Proceedings of the 23<sup>rd</sup> ACVIM forum, page 910, Baltimore, MD, 2005.

**Proceedings:**

**Levine JM.** The Neurologic Examination. American Animal Hospital Association Conference, Long Beach, CA 2010

**Levine JM.** Canine Disk Herniation. American Animal Hospital Association Conference, Long Beach, CA 2010

**Levine JM.** Maintenance Anticonvulsant Drugs. American Animal Hospital Association Conference, Long Beach, CA 2010

**Levine JM.** The Non-Ambulatory Dog. North American Veterinary Conference, Orlando, FL, 2010

**Levine JM.** Vertebral Column MRI. North American Veterinary Conference, Orlando, FL, 2010

**Levine JM.** Canine Disk Herniation. North American Veterinary Conference, Orlando, FL 2010

**Levine JM.** New Anti-convulsive Drugs. North American Veterinary Conference, Orlando, FL 2010

**Levine JM.** Image Guided Neurosurgery. North American Veterinary Conference, Orlando, FL 2010

**Levine JM.** Novel Treatments for Spinal Cord Injury. North American Veterinary Conference, Orlando, FL 2010

**Levine JM.** Focal Neuromuscular Disease. 5<sup>th</sup> Annual Neurology Continuing Education Conference, Texas A&M University, 2009

**Levine JM.** The Non-ambulatory Dog. 5<sup>th</sup> Annual Neurology Continuing Education Conference, Texas A&M University, 2009

**Levine JM.** Brain Tumors in Dogs. 5<sup>th</sup> Annual Neurology Continuing Education Conference, Texas A&M University, 2009

**Levine JM.** The Neurological Examination. Southwest Veterinary Symposium, San Antonio, TX, 2009

**Levine JM.** Neurology Cases. Southwest Veterinary Symposium, San Antonio, TX, 2009

**Levine JM.** The Non-ambulatory Dog. Southwest Veterinary Symposium, San Antonio, TX, 2009



**Levine JM.** Canine Disk Herniation. Southwest Veterinary Symposium, San Antonio, TX, 2009

**Levine JM.** Vertebral Column MRI. Southwest Veterinary Symposium, San Antonio, TX, 2009

**Levine JM.** Maintenance Anticonvulsive Drugs. Southwest Veterinary Symposium, San Antonio, TX, 2009

Schatzberg S, Li Q, Platt S, Kent M, **Levine J**, Porter B, Levine G, Chandler K, Breitschwerdt E, Birkenheuer A, Anderson L, Tong S. Molecular Investigations in Canine Meningoencephalitis of Unknown Etiology. Proceedings of the 27<sup>th</sup> American College of Veterinary Internal Medicine Forum, Montreal, Quebec, Canada, 2009

Schatzberg S, Li Q, Platt S, Kent M, **Levine J**, Porter B, Levine G, Chandler K, Breitschwerdt E, Birkenheuer A, Anderson L, Tong S. Broadly Reactive Pan Viral, Bacterial, and Rickettsial PCR for Pathogen Detection in Canine Meningoencephalitis of Unknown Etiology. Proceeding of the 27<sup>th</sup> American College of Veterinary Internal Medicine Forum, Montreal, Quebec, Canada, 2009.

**Levine JM.** Matrix metalloproteinases: therapeutic target in dogs with spinal cord injury. Proceedings of the 27<sup>th</sup> American College of Veterinary Internal Medicine Forum, Montreal, Quebec, Canada, 2009

**Levine JM.** Vertebral Column MRI. Proceedings of the 27<sup>th</sup> American College of Veterinary Internal Medicine Forum, Montreal, Quebec, Canada, 2009

**Levine JM.** Vertebral Column MRI. Neurology Continuing Education Conference, Texas A&M University, 2008

**Levine JM.** Maintenance anti-convulsive drugs. Neurology Continuing Education Conference, Texas A&M University, 2008

**Levine JM.** Traumatic brain injury. Neurology Continuing Education Conference, Texas A&M University, 2008

**Levine JM.** MRI: The imaging technique of choice for evaluating CNS disease. VREC Annual Conference, 2008.

**Levine JM.** Neurotoxicities. Neurology Continuing Education Conference, Texas A&M University, 2007.

**Levine JM.** Intervertebral disk herniation. Neurology Continuing Education Conference, Texas A&M University, 2007.

**Levine JM.** The non-ambulatory dog. Neurology Continuing Education Conference, Texas A&M University, 2007.

**Levine JM.** Intervertebral disk herniation. Capital Area VMA, 2007

**Levine JM.** The non-ambulatory dog. Capital Area VMA, 2007.

**Levine JM.** The Feline Neurological Examination. Feline Continuing Education Conference, Texas A&M University, 2007.

**Levine JM.** Forebrain disease. Neurology Continuing Education Conference, Texas A&M University, 2006.

**Levine JM.** Steroids in Neurological Disease: an Ongoing Controversy. Capital Area Veterinary Medical Association Invited Lecture, 2006.

**Levine JM.** The Neurologic Examination. Neurology Continuing Education Conference, Texas A&M University, 2005. pp 3-15

**Levine JM.** Neuroanatomical Localization. Neurology Continuing Education Conference, Texas A&M University, 2005 pp 16-26

**Levine JM.** Vestibular Disease. Neurology Continuing Education Conference, Texas A&M University, 2005 pp 34-43

**Levine JM.** Status Epilepticus. Neurology Continuing Education Conference, Texas A&M University, 2005 pp 45-52

### **Non-Refereed Publications:**

Hans E, Mankin J, Daily M, **Levine JM.** Vincristine induced peripheral neuropathy in a Golden Retriever. *Comparative Neuromuscular Laboratory Website, University of California, San Diego* (<http://vetneuromuscular.ucsd.edu/cases/2011/May2011.html>) Case of the Month, May 2011.

**Levine JM,** Coates JR, Porterpan BP, Cook LB, Williams C, Shelton GD. Acute onset of neuromuscular disease in a Great Dane puppy. *Comparative Neuromuscular Laboratory Website, University of California, San Diego* ([http://medicine.ucsd.edu/vet\\_neuromuscular](http://medicine.ucsd.edu/vet_neuromuscular)). *Case of the Month*, July 2003.

**Media Coverage:**

College Station Eagle (2011)

Fox News KWKT 44, Waco, TX (2012)

New York Times (2012)

<http://well.blogs.nytimes.com/2012/01/19/helping-injured-dogs-walk-again/#>

ABC News (2012)

<http://abcnews.go.com/Health/Wellness/spinal-cord-injury-helping-injured-dogs-heal/story?id=15449601>

USA Today (2012)

[http://yourlife.usatoday.com/parenting-family/pets/dogs/story/2012-01-31/Treating-dogs-spinal-cord-injuries-could-help-humans/52905852/1?csp=34news&utm\\_campaign=Feed%3a+UsatodaycomHealth-TopStories+%28News+-+Health+-+Top+Stories%29&utm\\_medium=feed&utm\\_source=feedburner](http://yourlife.usatoday.com/parenting-family/pets/dogs/story/2012-01-31/Treating-dogs-spinal-cord-injuries-could-help-humans/52905852/1?csp=34news&utm_campaign=Feed%3a+UsatodaycomHealth-TopStories+%28News+-+Health+-+Top+Stories%29&utm_medium=feed&utm_source=feedburner)

MSNBC/Today (2012)

[http://today.msnbc.msn.com/id/46387976/ns/today-today\\_pets\\_and\\_animals/](http://today.msnbc.msn.com/id/46387976/ns/today-today_pets_and_animals/)

**Reviewer:**

American Journal of Veterinary Research

- 2 articles-2009
- 2 articles -2010
- 1 article -2011

American Kennel Club Grant Review

- 1 grant- 2006

Journal of Veterinary Internal Medicine

- 11 ACVIM forum abstracts-2007
- 2 articles-2007
- 3 articles-2008
- 1 article-2009
- 4 articles-2010
- 5 articles-2011

Journal of the American Veterinary Medical Association

- 4 articles-2006
- 7 articles- 2007
- 2 articles -2008
- 5 articles – 2009
- 7 articles – 2010
- 4 articles – 2011

Journal of Veterinary Emergency and Critical Care

- 2 articles-2006
- 1 article – 2008
- 1 article – 2009
- 2 articles - 2011

Journal of Small Animal Practice

- 3 articles – 2008
- 4 articles – 2009
- 1 articles – 2010

Journal of the American Animal Hospital Association

- 1 article – 2009

Journal of Veterinary Medicine A

- 1 article-2005

The Journal of Veterinary Medical Science

- 2 articles-2011

The Veterinary Journal

- 4 articles -2011

Veterinary Radiology and Ultrasound

- 1 article-2010
- 3 articles-2011
- 1 article -2012

**Consultant:**

Capital Area Veterinary Specialists, Austin, TX  
South Texas Veterinary MRI, San Antonio, TX  
North Houston Veterinary Imaging, Humble, TX  
Sugarland Veterinary Specialists, Sugarland, TX  
VetPharm, East Rochester, NY

**SERVICE ACTIVITIES:**

**Professional Organizations:**

American Veterinary Medical Association, 2001-present  
Phi Zeta Honor Society of Veterinary Medicine, 1999-present  
American College of Veterinary Internal Medicine, 2005-present  
Texas Veterinary Medical Association, 2007-present  
Texas Brain and Spine Institute, 2008-present  
Texas Comparative Neuro-oncology Program, 2008-present  
Mission Connect/TIRR Foundation, 2009-present

**Professional Organization Service:**

ACVIM Presentation Moderator, San Antonio, TX 2008  
ACVIM Resident Abstract Judge, San Antonio, TX 2008  
Member, Board of Directors, Texas Comparative Neuro-oncology Program 2008-present  
ACVIM Examination Rater, Montreal, Quebec, Canada 2009  
Program Director, Texas A&M University, ACVIM-neurology residency, 2009-present  
Scientist, Mission Connect/TIRR Foundation, 2010-present  
ACVIM Neurology Examination Rating Committee, 2010-present  
Mission Connect Poster Judge, Houston, TX 2011

**Invited Lectures and Continuing Education Presentations:**

**Upcoming**

**American College of Veterinary Surgeons, Washington, D.C. Nov 2012**  
Neuroprotection in SCI  
Resident Review Session

**Western Veterinary Conference, Las Vegas, NV, Feb 2012**  
The Neurological Examination  
Seizures: Emergency Management  
Maintenance Anticonvulsive Drugs  
Canine Disk Herniation  
Feline Spinal Cord Disease: It's Not All Bad News  
Neurological Cases

**Completed**

**Sugarland Vet Specialists 2<sup>nd</sup> Annual CE, Sugar Land, TX, Feb 12<sup>th</sup>, 2012**  
The Neurological Examination  
Neurology Cases

**Tyler Veterinary Medical Association, Tyler, TX Jan 17<sup>th</sup> 2012**  
Novel Treatments for SCI  
Neurology Cases

**Neurology CE Conference, Texas A&M University, TX Nov 11-13 2011**  
Emergency Seizure Management  
Feline Spinal Cord Injury  
Advances in Spinal Cord Injury

**Capital Area Veterinary Medical Association, Austin, TX, Aug 10<sup>th</sup> 2011**  
Seizure management  
Head trauma

**North Central Texas Veterinary Medical Association, Waco, TX, April 28, 2011**  
The Neurological Examination  
Neuroanatomic Localization

**TVMA Annual Conference, College Station, TX, March 5<sup>th</sup> 2011**  
TAMU-CVM Imaging and Cancer Treatment Center: Advancing Care Through Science

**Harris County Veterinary Medical Association, Houston, TX March 10<sup>th</sup> 2011**  
TAMU-CVM Imaging and Cancer Treatment Center: Advancing Care Through Science

**Annual Technician Conference, College Station, TX, February 6th 2011**  
Head Trauma

**Home Game Continuing Education, College Station, TX Sept 10<sup>th</sup> 2010**  
The Neurological Examination  
Seizures: Emergency Management  
Maintenance Anticonvulsive Drugs

**Bexar County Veterinary Medical Association, San Antonio, TX Aug 15, 2010**  
Imaging and Cancer Treatment Center  
Image Guided Neurosurgery  
Neurological Examination  
Disk herniation  
Maintenance Anticonvulsants

**MRI Rounds, Texas A&M University, College Station, TX Jul 23, 2010**  
Vertebral Column MRI

**MRI Rounds, Texas A&M University, College Station, TX May 27, 2010**  
MR neuroimaging: 2009-2010 in review

**Brazos Valley Veterinary Medical Association, Bryan, TX May 4, 2010**  
Imaging and Cancer Treatment Center (w/ Young and Wilson)

**Faculty of Neuroscience, Texas A&M University Apr 22 2010**  
Neurological diseases in dogs: natural models for translation

**American Animal Hospital Association, Long Beach, CA March 19 2010**  
The neurological examination  
Maintenance anti-convulsive drugs  
Intervertebral disk herniation  
Neurology cases

**Blue Bonnet Veterinary Medical Association, Brenham, TX January 26<sup>th</sup> 2010**  
The non-ambulatory dog  
Image guided neurosurgery

**North American Veterinary Conference, Orlando, FL, January 19<sup>th</sup> 2010**  
The non-ambulatory dog  
Vertebral column MRI  
Canine disk herniation

New anti-convulsive drugs  
Image guided neurosurgery  
Novel treatments for spinal cord injury

**Mission Connect, Houston, TX, November 13, 2009**

Spinal cord injury in dogs: natural disease model

**Neurology CE Conference, Texas A&M University, October 2-4, 2009**

Focal neuromuscular disease  
The non-ambulatory dog  
Brain tumors in dogs

**Southwest Veterinary Symposium, San Antonio, TX, Sept 27, 2009**

The neurological examination  
The non-ambulatory dog  
Canine disk herniation  
Maintenance anti-convulsive drugs  
Vertebral column MRI  
Neurology cases

**Texas A&M University Faculty Seminar Series, College Station, TX Sept 25, 2009**

Matrix metalloproteinase inhibition in spinal cord injury

**Capital Area Veterinary Specialists CE Conference, Austin, TX July 25, 2009**

The neurological examination  
Maintenance anti-convulsive drugs

**TxAgs Podcast, Bryan, TX, July 2, 2009**

Brain tumors in dogs

**American College of Veterinary Internal Medicine Forum, Montreal, June 2-6, 2009**

Vertebral column MRI  
Matrix metalloproteinases: therapeutic target in dogs with spinal cord injury

**Comparative Neuro-oncology Conference, Texas A&M University, May 23, 2009**

Update: A comparative neuro-oncology program at Texas A&M University

**Annual Technician Conference, Texas A&M University, February 7, 2009**

Maintenance anti-convulsive medications

**Neurology CE Conference, Texas A&M University, November 21-23, 2008**

Vertebral column MRI  
Maintenance anti-convulsive medications  
Traumatic brain injury

Neurology cases

**University of Texas School of Medicine, Houston, TX October 25, 2008**

TAMU neurology, canine gliomas, and a multi-institutional translational project

**Texas Brain and Spine Institute, College Station, TX August 5, 2008**

Texas A&M Neurology Service

**VREC Annual Conference, San Antonio, TX, May 17, 2008**

MRI in central nervous system disease

**North Central Texas Veterinary Medical Association, Killeen, TX, January 24, 2008**

Intervertebral disk herniation

The non-ambulatory dog

**Neurology CE Conference, Texas A&M University, December 7-9, 2007**

Intervertebral disk herniation

The non-ambulatory dog

Neurotoxicities

Conference Chair

**Capital Area Veterinary Medical Association, Austin, TX, October 11, 2007**

Intervertebral disk herniation

The non-ambulatory dog

**Annual Feline Medicine Symposium, Texas A&M University, April 24-26, 2007**

Feline Neurological Examination

**Neurology CE Conference, Texas A&M University, Dec 1-3, 2006**

Neuroanatomical Localization

Neurology Cases

Steroids in Neurological Disease

Forebrain Diseases

Conference Chair

**University of Florida, Gainesville, FL, Nov 1, 2006**

Canine Intervertebral Disk Herniation: New Insights into an Old Disease

**Cornell University, Ithaca, NY, Oct 17, 2006**

Canine Intervertebral Disk Herniation: New Insights into an Old Disease

**Capital Area Veterinary Medical Association, Austin, TX, April 11, 2006**

Steroids in Neurological Disease

Neurology Cases



**Annual Feline Medicine Symposium, Texas A&M University, March 24-26, 2006**  
Feline Neurology Cases

**Neurology CE Conference, Texas A&M University, Oct 21-23, 2005**  
The Neurologic Examination  
Neuroanatomical Localization  
Neurology Cases – Part I  
Neurology Cases – Part II  
Vestibular Disease  
Seizures  
Conference Chair

**University of Missouri, Resident Seminar Series, February 6, 2004**  
Update: matrix metalloproteinase activity in the cerebrospinal fluid and blood of dogs with acute spinal cord trauma resulting from intervertebral disk disease. 1 hour

**Texas A&M University, Technician Seminar Series, October 10, 2003**  
Neuroanatomical localization. 1 hour

**Texas A&M University, Resident Seminar Series, February 14, 2003**  
Matrix metalloproteinase activity in the cerebrospinal fluid and blood of dogs with acute spinal cord trauma resulting from intervertebral disk disease. 1 hour

**Committees:**

**Departmental Advisory Group, 2011-present**  
**Cancer Walk Core Committee 2011**  
**Promotion Advisory Subcommittee (Scholarship review Ben Young) 2011**  
**Neurology Search Committee 2005-2008; 2010-2011**  
**Oncology Search Committee 2006**  
**Infection Control Committee 2007-present**  
**Peer Review Committee VTPB 2007-2008**  
**LINAC/MRI Working group 2007-present**  
**Surgery Lecturer Search Committee 2008**  
**Surgery Faculty Search Committee 2009**  
**Strategic Planning Committee 2008-2009**  
**ICU Committee 2008-present**  
**IRAC Committee 2009-present**  
**Graduate Recruitment Task Force 2010**

**PROFESSIONAL DEVELOPMENT:**

**Meeting Attendance**

22nd Annual Meeting of the American College of Veterinary Internal Medicine, Minneapolis, MN 2004

23<sup>rd</sup> Annual Meeting of the American College of Veterinary Internal Medicine, Baltimore, MD 2005

26<sup>th</sup> Annual Meeting of the American College of Veterinary Internal Medicine, San Antonio, TX 2008

27<sup>th</sup> Annual Meeting of the American College of Veterinary Internal Medicine, Montreal, Canada 2009

Southwest Veterinary Symposium, San Antonio, TX 2009

60<sup>th</sup> Annual Meeting of the American College of Veterinary Pathology, Monterey, CA 2009

North American Veterinary Conference, Orlando, FL 2010

American Animal Hospital Association Conference, Long Beach, CA 2010

Mission Connect Symposium, Houston, TX 2011

14<sup>th</sup> International Society for Neural Regeneration Symposium, Asilomar, CA 2011

**Advanced Workshops and Lectures Attended:**

“If Disney Ran Your Hospital”, 6/22/11, St. Joseph Regional Health Care Staff, TAMU

“Educational Assessments” 7/21/10, Dr. Kent Hecker, TAMU

“Development” 7/8/09, Dr. Guy Shepherd, TAMU Foundation

“Search Committee Training” 2/11/09, TAMU Dean of Faculties

“Veterinary Medical Education: Promoting Teaching and Learning Excellence”, Dr. D. Forrester, 4/18/08, TAMU Center for Teaching Excellence

“From Classroom to Clinic and Beyond: Making the Transition Effectively”, Dr. D. Forrester, 4/18/08, TAMU Center for Teaching Excellence

**OTHER ACTIVITIES:**

TAMU Neurology Service Webpage – design and maintenance, 2007-present

TAMU Neurology Service Client Handouts – development, 2008-present

TAMU MRI Rounds – development and organization, 2008-present

TAMU Clinical Trials Webpage – design (w/ Dr. H. Wilson), 2008

Member, Aggieland Pets with a Purpose

Novice Ice Hockey