

## CURRICULUM VITAE

keep



**NAME:**

**George Michael Strain**

**PRESENT ADDRESS:**

Comparative Biomedical Sciences  
2510 School of Veterinary Medicine  
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Baton Rouge, Louisiana 70809  
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**CITIZENSHIP:**

United States

**DATE OF BIRTH:**

August 31, 1949

**FAMILY:**

Married; three children, seven grandchildren

### ADMINISTRATIVE POSITIONS:

Interim Head, Comparative Biomedical Sciences, School of Veterinary Medicine, Dec 2010 - Oct 2012.

Interim Vice Chancellor for Research, July 2000 - August 2001.

Responsibilities: administration and promotion of University research programs, technology transfer, and economic development activities; development of new research initiatives; sponsored research programs and policy; oversight of centralized research facilities, centers and institutes (Sea Grant, Space Grant, Center for Advanced Microstructures & Devices, Center for Coastal, Energy & Environmental Resources, Hurricane Center, Center for Geoinformatics, others), reviews of established centers and institutes; institutional official to federal assurance programs; institutional member on national and regional research organizations; research liaison to Board of Regents and other Louisiana institutions; University research publications. Approximate budget: \$20M.

Interim Dean of the Graduate School, July 2000 - August 2001.

Responsibilities: administration and promotion of University graduate programs and day to day operation of the Graduate School.

Associate Vice Chancellor for Research and Graduate Studies, February 1997 - February 2002.

Responsibilities: development of new research initiatives; sponsored research programs and policy; undergraduate research initiative; institutional official to federal assurance programs; management of institutional matching funds; outside employment approvals.

Interim Director, LSU Institutional Review Board (IRB, human subject research oversight), 1999-2000.

Faculty Senate President, 1994-1995, 1995-1996.

Responsibilities: oversight of faculty governance activities, liaison with University administration, state-wide faculty organizations, advocacy groups with Board of Regents, Board of Supervisors, Legislature.

Executive Board, Louisiana Universities Marine Consortium (LUMCON), 2000-2001.

Responsibilities: oversight of unit operations, performance review of Executive Director.

Graduate Advisor, Comparative Biomedical Sciences, 2006-2013.

Web Master, Comparative Biomedical Sciences, 2006-2015.

Director, Graduate Certificate in Veterinary Medical & Biomedical Sciences, 2019-

**EDUCATION:**

- 1967-71 University of Illinois, Urbana, IL  
B.S. Electrical Engineering
- 1971-73 Iowa State University, Ames, IA  
M.S. Biomedical Engineering  
Thesis: Development and analysis of a cable model for neuron processes with non-constant diameters.  
Advisor: W.H. Brockman
- 1973-77 Iowa State University, Ames, IA  
Ph.D. Physiology and Biomedical Engineering (double major)  
Dissertation: Elevation of seizure thresholds by cerebellar stimulation.  
Advisors: W.G. Van Meter and W.H. Brockman
- 1976-78 University of California, Los Angeles, CA  
NIH Postdoctoral Researcher:  
Neurophysiology and Neurology  
Advisor: Thomas L. Babb

**ADDITIONAL TRAINING:**

- Evoked Potential Recording Techniques. Nicolet Biomedical Instrument Co., Madison, WI. 1985.
- The Application of Electrodiagnostic Techniques in Animals. University of Tennessee College of Veterinary Medicine. Knoxville, TN. 1987.
- Diagnostic Electroretinography. University of Pennsylvania School of Veterinary Medicine. Philadelphia, PA. 1987.
- Advanced Course on Auditory Brainstem Response. Kresge Hearing Research Laboratory of the South, Louisiana State University Medical Center, New Orleans, LA. 1987.
- Basics of Molecular Biology for Neurobiologists. Society for Neuroscience, New Orleans, LA. 1991.
- Executive Media Training Program. Public Relations Society of America, Baton Rouge, LA. 2000.
- How to Ask for Money. LSU Foundation, Baton Rouge, LA. 2002.
- LSU Safe Space Training. LSU Office of Diversity, Office of Multicultural Affairs, Baton Rouge, LA. 2017.
- Suicide Awareness Training. QPR Gatekeeper Training, LSU Sch. Veterinary Medicine, Baton Rouge. 2019.

**POSITIONS HELD:****Louisiana State University, Baton Rouge**

Office of Research and Graduate Studies (also Office of Research and Economic Development)

- Interim Vice Chancellor & Dean, Graduate School, 2000-2001
- Associate Vice Chancellor, 1997-2002

School of Veterinary Medicine, Comparative Biomedical Sciences (formerly Veterinary Physiology, Pharmacology and Toxicology)

- Interim Head, 2010-2012
- Professor of Neuroscience, 1991-present
- Associate Professor of Neuroscience; Biomedical Engineer, 1983-1991
- Assistant Professor of Neuroscience; Biomedical Engineer, 1978-1983

College of Humanities & Social Sciences (formerly College of Arts and Sciences)

- Adjunct Associate Professor of Communication Sciences & Disorders, 1987-1991
- Adjunct Professor of Communication Sciences & Disorders, 1991-1997
- LSU Life Course and Aging Center - Faculty member, 2004-present

**University of California School of Medicine, Los Angeles**

Brain Research Institute and Department of Neurology

- Assistant Research Neurophysiologist, 1978
- Postgraduate Research Neurophysiologist, 1977-78
- Staff Research Associate, 1976-77

**Iowa State University, Ames**

Department of Mathematics

- Instructor, 1974-76
- Teaching Assistant, 1973-74

Department of Veterinary Physiology & Pharmacology

- Research Assistant, Summers of 1973, 1974

Department of Engineering Science and Mechanics

- Teaching Assistant, 1972-73

Engineering Research Institute Technical Institute

- Teaching Assistant, 1971-72

**PROFESSIONAL SOCIETIES:**

Society for Neuroscience

Baton Rouge Chapter, Society for Neuroscience

International Behavioral Neuroscience Society

International Society for Autonomic Neuroscience

American Veterinary Neurology Association

American Academy of Veterinary Pharmacology and Therapeutics

American Veterinary Society of Animal Behavior

International Behavioural and Neural Genetics Society

International Brain Research Association

World Federation of Neuroscientists

British Brain Research Association

European Brain and Behavior Society

International Neurotoxicology Association

American Association for the Advancement of Science

**HONORS AND AWARDS:**

Fellow, American Academy of Veterinary Pharmacology and Therapeutics, 1986

School of Veterinary Medicine Distinguished Service Award, 1991

SmithKline Beecham Award for Research Excellence, 1993

School of Veterinary Medicine Distinguished Scholar Award, 1995

Gamma Sigma Delta Research Award of Merit, 1995

University Medal, Ecole Nationale Vétérinaire de Toulouse, Toulouse France, March, 2008.

Teaching Awards:

- LSU SVM Teaching Award: Outstanding Teacher Selected by the Class of 2013, 2010.
- LSU SVM Dean's Teacher Merit Honor Roll, 2011, 2012, 2019.

Honor Societies:

- Sigma Xi (Honor Society of Research Scientists), 1987
- Gamma Sigma Delta (Honor Society of Agriculture), 1987
- Phi Zeta (Honor Society of Veterinary Medicine) (Board 1991-95, Vice President 1996-97), 1987
- Omicron Delta Kappa (Leadership Honorary Society), 1996
- Phi Kappa Phi (Academic Honor Society), 1999

**ACADEMIC APPOINTMENT DISTRIBUTION:** Research - 50%, Instruction - 50%

**CURRENT APPOINTMENT:** Tenured      **GRADUATE FACULTY STATUS:** Full member

**RESEARCH INTERESTS:**

Deafness, clinical neurophysiology (evoked potentials, electroencephalography, electromyography), molecular genetics, clinical and experimental neurology, autonomic nervous system, epilepsy.

**REFEREED PUBLICATIONS** (ORCID 0000-0002-6084-4438; ResearchGate score 34.30; Google Scholar: citations ~1,830, *h*-index 22)

1. **Strain, G.M.** and W.H. Brockman. 1975. A modified cable model for neuron processes with non-constant diameters. *J. Theor. Biol.* 51:475-494. PMID: 1142798.
2. **Strain, G.M.**, W.G. Van Meter, and W.H. Brockman. 1978. Elevation of seizure thresholds: A comparison of cerebellar stimulation, phenobarbital and diphenylhydantoin. *Epilepsia* 19:493-504. PMID: 729536.
3. Soper, H.V., **G.M. Strain**, T.L. Babb, J.P. Lieb, and P.H. Crandall. 1978. Chronic alumina hippocampal seizures in monkeys. *Exp. Neurol.* 62:99-121. PMID: 103743.
4. Babb, T.L., E. Mariani, **G.M. Strain**, J.P. Lieb, H.V. Soper, and P.H. Crandall. 1978. A sample and hold amplifier for stimulus artifact suppression. *Electroenceph. Clin. Neurophysiol.* 44:528-531. PMID: 76562.
5. **Strain, G.M.**, T.L. Babb, H.V. Soper, K.M. Perryman, J.P. Lieb, and P.H. Crandall. 1979. Effects of chronic cerebellar stimulation on chronic limbic seizures in monkeys. *Epilepsia* 20:651-664. PMID: 115677.
6. **Strain, G.M.** and W. Flory. 1981. Toxicology of ethylenediamine dihydriodide. *J. Am. Vet. Med. Assoc.* 179:751, 772. PMID: 7341589.
7. **Strain, G.M.**, C.L. Seger, and W. Flory. 1982. Toxic Bermudagrass tremor in the goat: An electroencephalographic study. *Am. J. Vet. Res.* 43:160-164. PMID: 7091811.
8. **Strain, G.M.**, W. Flory, and T.A. Tucker. 1984. Inhibition of synaptosomal uptake of amino acid transmitters by diamines. *Neuropharmacology* 23:971-975. PMID: 6148711.
9. **Strain, G.M.**, O. Barta, B.M. Olcott, and W.F. Braun, Jr. 1984. Serum and cerebrospinal fluid concentrations of immunoglobulin G in Suffolk sheep with scrapie. *Am. J. Vet. Res.* 45:1812-1813. PMID: 6497137.
10. **Strain, G.M.**, B.M. Olcott, R.M. Archer, and B.K. McClintock. 1984. Narcolepsy in a Brahman bull. *J. Am. Vet. Med. Assoc.* 185:538-541. PMID: 6541218.
11. Venugopalan, C.S., W. Flory, T.A. Tucker, C.D. Hebert, and **G.M. Strain**. 1984. Assessment of smooth muscle function in *Sesbania drummondii* toxicosis in *Gallus domesticus*. *Am. J. Vet. Res.* 45:764-768. PMID: 6731992.
12. **Strain, G.M.**, B.M. Olcott, and W.F. Braun, Jr. 1986. Electroencephalogram and evoked potentials in naturally occurring scrapie in sheep. *Am. J. Vet. Res.* 47:828-836. PMID: 3963585.
13. **Strain, G.M.**, B.M. Olcott, and L.D. Hokett. 1986. Electroretinogram and visual-evoked potential measurements in Holstein cows. *Am. J. Vet. Res.* 47:1079-1081. PMID: 3717729.
14. Olcott, B.M., **G.M. Strain**, M.E. Hugh-Jones, B.M. Aldrige, D.-Y. Cho, and H.-N. Kim. 1986. Suckling problem calves: Definition, clinical and pathological findings. *Proc. 14th World Congress on Diseases of Cattle* 14:1201-1206.
15. **Strain, G.M.**, and J.D. Carter. 1987. Atraumatic loop electrodes for electroretinography. *Vet. Res. Commun.* 11:9-13. PMID: 3576969.
16. **Strain, G.M.**, T.A. Tucker, M.C. Graham, and N.A. O'Malley. 1987. Brain-stem auditory evoked potentials in the alligator. Effects of temperature and hypoxia. *Electroenceph. Clin. Neurophysiol.* 67:68-76. PMID: 2439283.
17. **Strain, G.M.**, M.S. Claxton, S.E. Turnquist, and J.M. Kreeger. 1987. Evoked potential and electroencephalographic assessment of central blindness due to brain abscesses in a steer. *Cornell Vet.* 77:374-382. PMID: 3328671.
18. **Strain, G.M.**, B.M. Olcott, and M.A.M. Turk. 1987. Diagnosis of primary generalized epilepsy in a cow. *J. Am. Vet. Med. Assoc.* 191:833-836. PMID: 3679974.
19. Olcott, B.M., **G.M. Strain**, and J.M. Kreeger. 1987. Diagnosis of partial epilepsy in a goat. *J. Am. Vet. Med. Assoc.* 191:837-840. PMID: 3119532.
20. Al-Tikriti, M., F. Al-Bagdadi, R.W. Henry, J. Hoskins, C. Titkemeyer, and **G. Strain**. 1987. The normal structure of regional feline gastric mucosae: Scanning electron microscopic study. *Scanning Microsc.* 1:1871-1880.
21. Kim, H.-N., R.A. Godke, M. Hugh-Jones, B.M. Olcott, and **G.M. Strain**. 1988. The "dummy calf" syndrome in neonatal beef calves. *Agri-Practice* 9:23-29.
22. **Strain, G.M.**, D.S. Taylor, M.C. Graham, and S.G. Kamerling. 1988. Cortical somatosensory-evoked potentials in the horse. *Am. J. Vet. Res.* 49:1869-1872. PMID: 3247907.
23. **Strain, G.M.**, and W. Flory. 1989. Simple aliphatic diamines: Acute neurotoxicity. *Res. Commun. Chem. Pathol. Pharmacol.* 64:489-492. PMID: 2781145.
24. **Strain, G.M.**, B.M. Olcott, D.R. Thompson, and M.C. Graham. 1989. Brainstem auditory-evoked potentials in Holstein cows. *J. Vet. Internal Med.* 3:144-148. PMID: 2778748.

## REFEREED PUBLICATIONS: (cont.)

25. **Strain, G.M.**, M.C. Graham, M.S. Claxton, and B.M. Olcott. 1989. Postnatal development of brainstem auditory-evoked potentials, electroretinograms, and visual-evoked potentials in the calf. *J. Vet. Internal Med.* 3:231-237. PMID: 2585370.
26. **Strain, G.M.** 1989. Survey of neuroscience instruction in North American veterinary curricula. *J. Vet. Med. Educ.* 16:47-49.
27. Gibson, K.L., J.K. Daniloff, and **G.M. Strain.** 1989. Comparison of sciatic nerve regeneration through silicone tubes and nerve allografts. *Microsurgery* 10:126-129. PMID: 2770511.
28. **Strain, G.M.** 1989. Visual-evoked potential (VEP) methods and results in dogs. *J. Vet. Intern. Med.* 3:53-54. PMID: 2926721.
29. **Strain, G.M.**, R.M. Jackson, and B.L. Tedford. 1990. Visual evoked potentials in the clinically normal dog. *J. Vet. Internal Med.* 4:222-225. PMID: 2401969.
30. **Strain, G.M.**, J.S. Prescott-Mathews, and B.L. Tedford. 1990. Motor potentials evoked by transcranial stimulation of the canine motor cortex. *Prog. Vet. Neurol.* 1:321-331.
31. **Strain, G.M.**, M.S. Claxton, B.M. Olcott, and S.E. Turnquist. 1990. Visual-evoked potentials and electroretinograms in ruminants with thiamine responsive polioencephalomalacia and suspected listeriosis. *Am. J. Vet. Res.* 51:1513-1517. PMID: 2240768.
32. Remsen, L.G., **G.M. Strain**, M.J. Newman, N. Satterlee, J.K. Daniloff. 1990. Antibodies to the neural cell adhesion molecule disrupt functional recovery in injured nerves. *Exp. Neurol.* 110: 268-273. PMID: 2249736.
33. **Strain, G.M.**, M.S. Claxton, J.S. Prescott-Mathews, and D.J. LaPhand. 1991. Electroretinogram and visual-evoked potential measurements in sheep. *Can. J. Vet. Res.* 55:1-4. PMID: 1884277.
34. **Strain, G.M.**, R.M. Jackson, and B.L. Tedford. 1991. Postnatal development of the visual-evoked potential in dogs. *Am. J. Vet. Res.* 52:231-235. PMID: 2012334.
35. **Strain, G.M.** 1991. Congenital deafness in the dog and cat. *Compend. Cont. Educ. Pract. Vet.* 13:245-253.
36. **Strain, G.M.**, B.L. Tedford, and R.M. Jackson. 1991. Postnatal development of the brainstem auditory-evoked potential in dogs. *Am. J. Vet. Res.* 52:410-415. PMID: 2035914.
37. Gibson, K.L., L. Remsen, A. Smith, N. Satterlee, **G.M. Strain**, and J.K. Daniloff. 1991. Comparison of nerve regeneration through different types of neural prostheses. *Microsurgery* 12:80-85. PMID: 2011071.
38. **Strain, G.M.**, T.G. Snider, B.L. Tedford, and G.H. Cohn. 1991. Hyperbaric oxygen effects on brown recluse spider envenomation in rabbits. *Toxicon* 29:989-996. PMID: 1949069.
39. **Strain, G.M.** 1991. Antemortem diagnosis of scrapie and bovine spongiform encephalopathy. *J. Am. Vet. Med. Assoc.* 198:360. PMID: 2010324.
40. Hosgood, G., S.C. Kerwin, D.D. Lewis, **G.M. Strain**, C.S. Hedlund, and A.D. Elkins. 1992. Clinical review of the mechanism and applications of hyperbaric oxygen therapy in small animal surgery. *Vet. Comp. Orthoped. Traumatol.* 5: 31-39.
41. Schaeffer, D.O., K.A. Caprile, **G.M. Strain**, W.S. Bivin, and G.H. Cohn. 1992. Effect of hyperbaric oxygen on cerebrospinal fluid gentamicin concentrations. *J. Vet. Pharmacol. Therapeut.* 15:104-106. PMID: 1573700.
42. **Strain, G.M.**, M.T. Kearney, I.J. Gignac, D.C. Levesque, H.J. Nelson, B.L. Tedford, and L.G. Remsen. 1992. Brainstem auditory evoked potential assessment of congenital deafness in Dalmatians: associations with phenotypic markers. *J. Vet. Internal Med.* 6: 175-182. PMID: 1619594.
43. **Strain, G.M.** 1992. Brainstem auditory evoked potentials in veterinary medicine. *Br. Vet. J.* 148:275-278. PMID: 1498641.
44. **Strain, G.M.** Deafness in dogs and cats. 1992. *Proc. 10<sup>th</sup> ACVIM Forum* 10: 275-278.
45. **Strain, G.M.**, M.S. Claxton-Gill, J.S. Prescott-Mathews, and B.L. Tedford. 1992. Visual evoked potentials in amprolium-induced experimental polioencephalomalacia. *Progr. Vet. Neurol.* 3:65-71.
46. **Strain, G.M.** Brainstem auditory evoked potentials in veterinary medicine (Guest Editorial). 1992. *Brit. Vet. J.* 148:275-277.
47. **Strain, G.M.**, A.E. Kraus-Hansen, B.L. Tedford, and M.S. Claxton-Gill. 1992. Cortical somatosensory evoked potential measurements in Holstein cows. *Am. J. Vet. Res.* 53: 1627-1630. PMID: 1416367.
48. Camacho Ochoa, M., T.A. Jackson, C.S. Aaron, R.A. Lahti, **G.M. Strain**, and P.F. Von Voightlander. 1992. Antagonism of kainic acid lesions in the mouse hippocampus by U-54494A and U-50488H. *Life Sci.* 51: 1135-1143. PMID: 1325589.
49. **Strain, G.M.** 1992. Congenital deafness in dogs. [Invited commentary on "Congenital deafness and vestibular deficit in the doberman," MK Wilkes and AC Palmer, *J. Sm. Anim. Pract.*33:218, 1992.] *Adv. Sm. Anim. Med. Surg.* 5:6-7.

## REFEREED PUBLICATIONS: (cont.)

50. Kerwin, S.C., G. Hosgood, **G.M. Strain**, C.C. Vice, C.E. White, and R.K. Hill. 1993. The effect of hyperbaric oxygen treatment on a compromised axial pattern flap in the cat. *Vet. Surg.* 22:31-36. PMID: 8488672.
51. **Strain, G.M.** and B.L. Tedford. 1993. Flash and pattern-reversal visual evoked potentials in C57BL/6J and B6CBAF<sub>1</sub>/J mice. *Brain Res. Bull.* 32:57-63. PMID: 8319104.
52. Merchant, S.R., T.M. Neer, B.L. Tedford, A.C. Twedt, P.M. Cheramie, and **G.M. Strain**. 1993. Ototoxicity assessment of a chlorhexidine otic preparation in dogs. *Progr. Vet. Neurol.* 4: 72-75.
53. **Strain, G.M.**, K.D. Green, A.C. Twedt, and B.L. Tedford. 1993. Brain stem auditory evoked potentials from bone stimulation in dogs. *Am. J. Vet. Res.* 54: 1817-1821. PMID: 8291757.
54. **Strain, G.M.** Deafness assessment services by means of the brainstem auditory-evoked response. *J. Vet. Intern. Med.* 7:104-105. PMID: 8501696.
55. Hosgood, G., E.C. Hodgins, **G.M. Strain**, and D.D. Lewis. 1995. Effect of hyperbaric oxygen and deferoxamine hydroxyethyl starch on free full-thickness skin grafts in the dog. *Am. J. Vet. Res.* 56:241-247. PMID: 7717593.
56. **Strain, G.M.**, S. R. Merchant, T.M. Neer, and B.L. Tedford. 1995. Ototoxicity assessment of a gentamicin sulfate otic preparation in dogs. *Am. J. Vet. Res.* 56:532-538. PMID: 7785834.
57. Daniloff, J.K., R.S. Shoemaker, A.F. Lee, **G.M. Strain**, and L.G. Remsen. 1995. N-CAM promotes recovery in injured nerves. *Restor. Neurol. Neurosci.* 7:137-144. PMID: 21551781.
58. **Strain, G.M.** 1996. Aetiology, prevalence, and diagnosis of deafness in dogs and cats. (Commissioned review.) *Brit. Vet. J.* 152:17-36. PMID: 8634862.
59. Smith, B.A., S.C. Kerwin, G. Hosgood, G. Voyadjias, R. Echle, and **G.M. Strain**. 1996. Mechanical comparison of two methods for interfragmentary fixation in a short oblique fracture model. *Comp. Vet. Orthoped. Traumatol.* 9:145-151.
60. **Strain, G.M.** 1997. The autonomic nervous system: review and update. *Proc. 15<sup>th</sup> ACVIM Forum* 150: 584-586.
61. **Strain, G.M.** 1997. Drug effects on the autonomic nervous system. *Proc. 15<sup>th</sup> ACVIM Forum* 150: 587-589.
62. **Strain, G.M.** 1997. Electrophysiological assessment of auditory function. *Proc. 15<sup>th</sup> ACVIM Forum* 150: 617-619.
63. **Strain, G. M.** 1997. Electrodes, amplifiers, and squiggly lines. *Proc. 15<sup>th</sup> ACVIM Forum* 150: 614-615.
64. **Strain, G.M.**, B.L. Tedford, M.A. Littlefield-Chabaud, and L.T. Treviño. 1998. Air- and bone-conducted brainstem auditory evoked potentials and flash visual evoked potentials in cats. *Am. J. Vet. Res.* 59(2): 135-137. PMID: 9492924.
65. Waldrop, R.D. and **G.M. Strain**. 1998. Autonomic regulation of gastric ulcerogenesis after cervical cord transection in the rat. *Acad. Emerg. Med.* 5:230-233. PMID: 9523931.
66. Lemarie, R.J., G. Hosgood, J. Van Steenhouse, E.C. Hodgins, B.L. Tedford and **G.M. Strain**. 1998. Effect of hyperbaric oxygen on lipid peroxidation in free skin grafts in rats. *Am. J. Vet. Res.* 59:913-917. PMID: 9659561.
67. **Strain, G.M.**, S.C. Kerwin, B.L. Tedford, and R.P. Johnson. 1998. Creatine kinase level changes following electromyography in the normal anesthetized dog. *Vet. J.* 156:231-233. PMID: 9883091.
68. **Strain, G.M.** 1999. Congenital deafness and its recognition. *Vet Clin N Amer: Small Anim Pract* 29:895-907. PMID: 10390790.
69. Kerwin, S.C., D.D. Lewis, A.D. Elkins, J.L. Oliver, G. Hosgood, R.D. Peckman, S.L. Dial, and **G.M. Strain**. 2000. Effect of hyperbaric oxygen treatment on incorporation of an autogenous cancellous bone graft in a nonunion diaphyseal ulnar defect in cats. *Am. J. Vet. Res.* 61:691-8. PMID: 10850847.
70. **Strain, G.M.** 2003. Assessment of motor pathways. How to breach the black box. (Guest editorial). *Vet. J.* 166:220-221. PMID: 14550729.
71. **Strain, G.M.** 2004. Deafness prevalence and pigmentation and gender associations in dog breeds at risk. *Vet. J.* 167(1):23-32. PMID: 14623147.
72. Cargill, E.J., T.R. Famula, **G.M. Strain**, and K.E. Murphy. 2004. Heritability and segregation analysis of deafness in U.S. Dalmatians. *Genetics* 166:1385-1393. PMID: 15082557.
73. Bolt, D.M., D.J. Burba, J.D. Hubert, **G.M. Strain**, G. Hosgood, D.-Y. Cho, and W.G. Henk. 2004. Functional and morphological changes in palmar digital nerves after non-focused extracorporeal shock wave therapy in horses. *Am. J. Vet. Res.* 65:1714-1718. PMID: 15631039.

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74. Cargill, E.G., T.R. Famula, R.D. Schnabel, **G.M. Strain**, and K.E. Murphy. 2005. The color of a Dalmatian's spots: Linkage evidence to support the *Tyrp1* gene. *BMC Vet. Res.* 1:1-10. Available at: [www.biomedcentral.com/1746-6148/1/1](http://www.biomedcentral.com/1746-6148/1/1). PMID: 16045797.
75. **Strain, G.M.** and R.D. Waldrop. 2005. Temperature and vascular volume effects on gastric ulcerogenesis after cord transection. *Digest. Dis. Sci.* 50:2037-2042. PMID: 16240212.
76. **Strain, G.M.**, B.L. Tedford, and M.S. Gill. 2006. Brainstem auditory evoked potentials and flash visual evoked potentials in Vietnamese miniature pot-bellied pigs. *Res. Vet. Sci.* 80:91-95. PMID: 15876441.
77. **Strain, G.M.** 2006. Indicators of brain mass-induced herniation (Guest editorial). *Vet. J.* 172:198-199. PMID: 16246608.
78. **Strain, G.M.** 2007. Deafness in blue-eyed white cats: The uphill road to solving polygenic disorders. (Guest editorial). *Vet. J.* 173:471-472. PMID: 17317244.
79. Famula, T.R., E.G. Cargill, and **G.M. Strain**. 2007. Heritability and complex segregation analysis of deafness in Jack Russell terriers. *BMC Veterinary Research* 3:31 (11 pp). Available at: [www.biomedcentral.com/1746-6148/3/31](http://www.biomedcentral.com/1746-6148/3/31). PMID: 17999773.
80. **Strain, G.M.**, L.A. Clark, J.M. Wahl, A.E. Turner, and K.E. Murphy. 2009. Prevalence of deafness in dogs heterozygous and homozygous for the merle allele. *J Vet Intern Med* 23:282-286. PMID: 19192156.
81. **Strain, G.M.**, M. Banasik, M. Hardy, and T. Stedeford. 2009. Tetrabromobisphenol A (TBBPA) and model-derived risks for neurobehavioral effects in offspring from a one-generation reproduction study. *Toxicology* 260:155-157. PMID: 19464583.
82. Stevens-Sparks, C.K. and **G.M. Strain**. 2010. Post-anesthesia deafness in dogs and cats following dental and otic procedures. *Vet Anaesth Analg* 37:347-351. PMID: 20636566.
83. **Strain, G.M.** 2010. Vestibular testing: On balance... (Guest editorial). *Vet J* 185:239-240. PMID: 20171128.
84. **Strain, G.M.** 2011. White noise: Pigment-associated deafness. (Guest editorial). *Vet J* 188: 247-249. PMID: 20920866.
85. Comito, B., K.E. Knowles, and **G.M. Strain**. 2012. Congenital deafness in Jack Russell terriers - Prevalence and association with phenotype. *Vet J* 193: 404-407. PMID: 22456033.
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65. McMillan, C.L. and **G.M. Strain**. 2006. Distortion product otoacoustic emissions in dogs B a screening tool for deafness. LSU School of Veterinary Medicine Merck-Merial Symposium and LSU Phi Zeta Research Emphasis Day, Baton Rouge, August and September, 2006.
66. da Cunha, A., Acierno, M., **Strain, G.M.**, Guzman, D.S.M., Tully, T., Homberger, D., and Ritchie, B.W. 2008. Comparison between palpation, ultrasound and nerve stimulation guidance for brachial plexus blocks in Hispaniolan Amazon parrots (*Amazona ventralis*). Proceedings of the Association of Avian Veterinarians 29<sup>th</sup> Annual Conference, Savannah, GA, August, 2008.
67. Cochran, S., Zewe, C., and **Strain, G.M.** 2010. The ototoxicity and nephrotoxicity of gentamicin in rats. LSU Summer Undergraduate Research Forum, Baton Rouge, July, 2010.
68. Zewe, C., Cochran, S., and **Strain, G.M.** 2010. Effects of aspirin on ototoxic and nephrotoxic effects of gentamicin in rats. 10<sup>th</sup> Annual Merial-NIH National Veterinary Scholars Symposium, Athens, GA, and LSU Phi Zeta Research Emphasis Day, Baton Rouge, August and September, 2010.
69. Stevens-Sparks, C.K. and **Strain, G.M.** 2010. Post-anesthesia deafness in dogs and cats following dental and ear cleaning procedures. LSU Phi Zeta Research Emphasis Day, Baton Rouge, September, 2010.
70. Stevens-Sparks, C., and **Strain G.M.** 2013. The canine jaw-ear connection: The malleomandibular and tympanomandibular ligaments. American Association of Veterinary Anatomists Annual Meeting, Atlanta, GA, July, 2013.
71. Stevens-Sparks, C., and **Strain G.M.** 2013. The canine jaw-ear connection: The malleomandibular and tympanomandibular ligaments. LSU Phi Zeta Research Emphasis Day, Baton Rouge, September, 2013.
72. Nevarez, J.G., **Strain, G.M.**, da Cunha, A.F., and Hughes, B. 2013. Comparison of four euthanasia methods in American alligators (*Alligator mississippiensis*). American Association of Zoo Veterinarians, Salt Lake City, UT, October, 2013.
73. Nevarez, J.G., **Strain, G.M.**, da Cunha, A.F., and Hughes, B. 2014. Evaluation of four euthanasia methods in American alligators (*Alligator mississippiensis*). 23<sup>rd</sup> Working Meeting of the Crocodile specialist Group, Lake Charles, LA, May 2014.
74. Fernandes, A., and **Strain, G.M.** 2014. Handheld tympanometry measurements in the conscious dog for evaluation of the middle ear and auditory tube. LSU Phi Zeta Research Emphasis Day, Baton Rouge, September, 2014.
75. McGee, K.A., Rosado Martinez, A., McMillan, C.L., and **Strain, G.M.** 2015. Distortion product otoacoustic emissions for detecting presbycusis in dogs. LSU Summer Undergraduate Research Forum, Baton Rouge, July, 2015.
76. Rosado Martinez, A., McGee, K.A., McMillan, C.L., and **Strain, G.M.** 2015. Distortion product otoacoustic emissions for detecting presbycusis in dogs. 15<sup>th</sup> Annual Merial-NIH National Veterinary Scholars Symposium, Davis, CA, August, 2015.

## ABSTRACTS AND PRESENTED PAPERS: (cont.)

77. Rosado Martinez, A., McGee, K.A., McMillan, C.L., and **Strain, G.M.** 2015. Distortion product otoacoustic emissions for detecting presbycusis in dogs. LSU Phi Zeta Research Emphasis Day, Baton Rouge, September, 2015.
78. Rosado Martinez, A., McGee, K.A., McMillan, C.L., and **Strain, G.M.** 2015. Distortion product otoacoustic emissions for detecting presbycusis in dogs. Tuskegee University Biology Research Symposium, Tuskegee, AL, October, 2015.
79. McGee, K.A. and **Strain, G.M.** 2016. Distortion product otoacoustic emissions in young adult and geriatric cats. LSU Summer Undergraduate Research Forum, Baton Rouge, July, 2016.
80. Kelly-Smith, M. and **Strain, G.M.** 2019. STRING data mining of GWAS data in canine hereditary pigment-associated deafness. 7<sup>th</sup> Ann. LA Conf. Computational Biology & Bioinformatics. Baton Rouge, April 2019.
80. Hayward, J.J., Kelly-Smith, M., Boyko, A.R., and **Strain, G.M.** 2019. Genome-wide association study of congenital hereditary deafness in three canine breeds. 10th International Conference on Canine and Feline Genetics and Genomics, Bern, Switzerland, May, 2019.

## INVITED PRESENTATIONS AND PUBLIC LECTURES:

1. **Strain, G.M.** 1986. EEG and evoked potential studies of CNS slow virus infections (scrapie). American Veterinary Neurology Association Specialty Group Meeting, 53rd Annual Meeting of the American Animal Hospital Association, New Orleans, March, 1986.
2. **Strain, G.M.** 1987. Electroretinography (ERG) and visual evoked potentials in animals: Fundamentals of recording techniques and response interpretation. The Application of Electrodiagnostic Techniques in Animals. Nicolet Biomedical Instruments and the College of Veterinary Medicine, University of Tennessee, Knoxville, March, 1987.
3. **Strain, G.M.**, and M.H. Sims. 1987. Pudendal nerve evoked potential recordings in animals. The Application of Electrodiagnostic Techniques in Animals. Nicolet Biomedical Instruments and the College of Veterinary Medicine, University of Tennessee, Knoxville, March, 1987.
4. **Strain, G.M.** 1987. Conventional EEG recording in animals: Origins, techniques and interpretation. The Application of Electrodiagnostic Techniques in Animals. Nicolet Biomedical Instruments and the College of Veterinary Medicine, University of Tennessee, Knoxville, March, 1987.
5. **Strain, G.M.** 1990. Transcortical stimulation and EMG mapping of major muscle groups: a way to assess motor neurological response. Spinal Pathology Due to Axial (+Z) Acceleration: A Review. Naval Biodynamics Laboratory, New Orleans, February, 1990.
6. **Strain, G.M.** 1991. Congenital deafness studies in the Dalmatian. First Dr. Holly Nelson Memorial Lecture. Dalmatian Club of America National Specialty Show. Houston, June, 1991.
7. **Strain, G.M.** 1991. From torpedoes to dive bombers: 2000 years of electricity in medicine. Aesculapian Lecture, Louisiana State University School of Veterinary Medicine, Baton Rouge, December, 1991.
8. **Strain, G.M.** 1992. Deafness in dogs and cats. Tenth Annual ACVIM Forum. San Diego, May, 1992.
9. **Strain, G.M.** 1992. Deafness in dogs and cats. Ann. Conf. For Veterinarians. Baton Rouge, Oct, 1992.
10. **Strain, G.M.** 1993. Neurophysiology review. ACVIM Neurology Certifying Exam Review. North Carolina State University, Raleigh, April, 1993.
11. **Strain, G.M.** 1993. Electrodiagnostics review. ACVIM Neurology Certifying Exam Review. North Carolina State University, Raleigh, April, 1993.
12. **Strain, G.M.** 1995. Deafness in dogs. American Kennel Club Parent Breed Club Genetics Conference, Florham Park, NJ, October, 1995.
13. **Strain, G.M.** 1997. Deafness in dogs and cats. 66<sup>th</sup> Annual Conference For Veterinarians. Baton Rouge, September, 1997.
14. **Strain, G.M.** 1997. Neurophysiology of the auditory system. University of Veterinary Medicine, Vienna, Austria, October, 1997.
15. **Strain, G.M.** 1997. Physiology of the autonomic nervous system. University of Veterinary Medicine. Vienna, Austria, October, 1997.
16. **Strain, G.M.** 1997. Deafness in Dalmatians. Analysis From BAEP Tests of 4500 Dogs. Symposium on Breed Specific Strategies Against Genetic Defects Exemplary Demonstrated in Dalmatians. Austrian Dalmatian Breeding Association. Vienna, Austria, October, 1997.
17. **Strain, G.M.** 1997. Deafness in Dalmatians. Analysis From BAEP Tests of 4500 Dogs. Dederlandse Club voor Dalmatische Honden. Amsterdam, Netherlands, October, 1997.
18. **Strain, G.M.** 1997. Deafness in Dogs. British Dalmatian Club. London, England, November, 1997.

**INVITED PRESENTATIONS AND PUBLIC LECTURES: (cont.)**

19. **Strain, G.M.** 2001. The increasing importance of grant writing in faculty activities: the sciences perspective. American Association of Higher Education, Tampa, February, 2001.
20. **Strain, G.M.** 2003. Hereditary deafness in dogs and cats: causes, prevalence, and current research. Tufts' Canine & Feline Breeding and Genetics Conference, Sturbridge, MA, October, 2003. **Strain, G.M.** 2004. Deafness in dogs and cats. 73<sup>rd</sup> Annual Conference for Veterinarians, LSU, October, 2004.
21. **Strain, G.M.** 2005. Genetics of Deafness. 8<sup>o</sup> Congreso Internacional de Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico May 2005.
22. **Strain, G.M.** 2005. Autonomic Nervous System. 8<sup>o</sup> Congreso Internacional de Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, May 2005.
23. **Strain, G.M.** 2006. Sordera Hereditaria en Perros y Gatos (Hereditary Deafness in Dogs and Cats). Congreso Internacional de Medicina, Cirugía y Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, May, 2006.
24. **Strain, G.M.** 2006. Pruebas de Electrodiagnóstico Neurológico (Neurologic Electrodiagnostic Testing). Congreso Internacional de Medicina, Cirugía y Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, May, 2006.
25. **Strain, G.M.** 2006. Electromyography and nerve conduction velocity. Instructional presentation and demonstration for surgery and medicine faculty, residents, and graduate students, Veterinary Clinical Sciences, LSU, December, 2006.
26. **Strain, G.M.** 2008. Deafness in dogs and the genetics of pigmentation. Ecole Nationale Vétérinaire de Toulouse, Toulouse France, March, 2008.
27. **Strain, G.M.** 2008. Deafness in Dalmatians: Mechanisms and current research. Ecole Nationale Vétérinaire de Toulouse and Toulouse Dalmatian Club, Toulouse France, March, 2008.
28. **Strain, G.M.** 2008. Deafness in blue-eyed white cats. 11<sup>th</sup> Congreso Internacional de Medicina, Cirugía y Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, April, 2008.
29. **Strain, G.M.** 2008. Deafness in dogs: Causes, prevalence, and current research. 11<sup>th</sup> Congreso Internacional de Medicina, Cirugía y Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, April, 2008.
30. **Strain, G.M.** 2008. Mystical merle: Deafness in dogs and the genetics of the merle and piebald genes. National Miniature Dachshund Club National Specialty, Houma, LA, June, 2008.
31. **Strain, G.M.** 2008. Brainstem auditory evoked response (BAER) recordings and the OFA Hearing Registry. Orthopedic Foundation for Animals Board of Directors meeting, New Orleans, October, 2008.
32. **Strain, G.M.** 2013. Genetics of pigmentation and deafness in dogs. Australian Cattle Dog Club of America, Norco, CA, October, 2013.
33. **Strain, G.M.** 2014. Deafness in dogs and cats. Universidade Estadual Paulista, Faculdade de Medicina Veterinária e Zootecnia, Botucatu, Brazil, January 2014.
34. **Strain, G.M.** 2014. Genetics of deafness in dogs. Universidade Estadual Paulista, Faculdade de Medicina Veterinária e Zootecnia, Botucatu, Brazil, January 2014.
35. **Strain, G.M.** 2014. Auditory evoked potentials. Universidade Estadual Paulista, Faculdade de Medicina Veterinária e Zootecnia, Botucatu, Brazil, January 2014.
36. **Strain, G.M.** 2014. Visual evoked potentials in veterinary medicine. Universidade Estadual Paulista, Faculdade de Medicina Veterinária e Zootecnia, Botucatu, Brazil, January 2014.
37. **Strain, G.M.** 2015. Hereditary deafness in the ACD: What we know and where we're heading. Australian Cattle Dog Club of America National Specialty, Gray Summit, MO, September 2015.
38. **Strain, G.M.** 2016. Deafness in the Boston Terrier: What we know and where we're heading. Boston Terrier Club of America National Specialty, Baton Rouge, LA, May 2016.
39. **Strain, G.M.** 2017. Genetics of pigment-associated hereditary deafness. Department of Biological Sciences, LSU, Baton Rouge, October 2017.
40. **Strain, G.M.** Molecular genetic studies of pigment-associated hereditary deafness. LSU School of Veterinary Medicine, Baton Rouge, October 2020.
41. **Strain, G.M.** Deafness & auditory testing in the Dogo Argentino dog. Dogo Argentino Club of America, virtual, March 14, 2021.

## SEMINAR PRESENTATIONS:

- Diamines. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology and Toxicology. Baton Rouge, February, 1982.
- Electrophysiologic changes in scrapie in sheep. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology and Toxicology. Baton Rouge, November, 1983.
- Neurotoxicity of diamines. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology and Toxicology. Baton Rouge, January, 1984.
- Slow virus infections of the central nervous system: scrapie, Creutzfeldt-Jakob disease, and kuru. Baton Rouge Chapter of the Society for Neuroscience. Baton Rouge, July, 1985.
- SVM Organized Research funds: purposes, evaluation and administration. LSU School of Veterinary Medicine, Department of Veterinary Anatomy and Fine Structure. Baton Rouge, November, 1984.
- Brainstem auditory evoked potentials in the alligator: effects of temperature and hypoxia. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology and Toxicology. Baton Rouge, April, 1986.
- Basic mechanisms of the epilepsies. Baton Rouge Chapter of the Society for Neuroscience. Baton Rouge, September, 1986.
- The fire ant poison Amdro: a neurotoxicity case study. LSU School of Veterinary Medicine. Department of Veterinary Anatomy and Fine Structure. Baton Rouge, October, 1986.
- Epilepsy - basic mechanisms and case reports. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology and Toxicology. Baton Rouge, April, 1987.
- Hearing assessment in the dog. Louisiana Capital City Obedience Club, Baton Rouge, May, 1988.
- Hyperbaric oxygen therapy for brown recluse spider envenomation. LSU Medical Center Department of Pharmacology. New Orleans, December, 1988.
- Hyperbaric oxygen therapy for brown recluse spider envenomation. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology, and Toxicology. Baton Rouge, February, 1989.
- Hearing assessment in the dog. Dalmatian Organization of Houston. Houston, March, 1989.
- Transcortical stimulation and EMG mapping of major muscle groups as a way to assess motor neurological response. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology, and Toxicology. Baton Rouge, February, 1990.
- Deafness in Dalmatians. Dalmatian Organization of Tulsa. Tulsa, November, 1990.
- Congenital deafness studies in the Dalmatian. Chicagoland Dalmatian Club. Evanston, IL, July, 1991
- Deafness in dogs. LSU School of Veterinary Medicine, Department of Veterinary Physiology, Pharmacology, and Toxicology. Baton Rouge, February, 1992.
- Deafness in dogs. Puget Sound English Setter Club and Puget Sound Dalmatian Club. Tacoma, WA, March, 1992.
- Deafness in dogs. Cascade Australian Cattle Dog Club. Portland, OR. October, 1992.
- Deafness in dogs. Blue Ridge Bull Terrier Club. Leesburg, VA. November, 1992.
- Deafness in bull terriers. Bull Terrier Club of Dallas. Arlington, TX. March, 1993.
- Hearing and deafness in dogs. Acadiana Kennel Club. Carencro, LA. April, 1993.
- Hearing and deafness in dogs. Mt. Hood Dalmatian Club. Brush Prairie, WA. July, 1993.
- Ototoxicity studies of chlorhexidine and gentamicin sulfate in the dog. LSU School of Veterinary Medicine, Department of Vet. Physiol., Pharmacol., and Toxicol. Baton Rouge, October, 1993.
- Hearing and deafness in dogs. English Setter Association of America National Specialty. Rye Brook, NY. August, 1994.
- Deafness in dogs and cats. Beta Beta Beta National Biological Honor Society. Baton Rouge, LA. October, 1994.
- Deafness in dogs. Baton Rouge Veterinary Medical Association. Baton Rouge, LA. July, 1995.
- A deliberation on the proposed tuition increase. LSU Coffee 2051. Baton Rouge, LA. September, 1995.
- Deafness and hearing testing. Jack Russell Terrier Club of America Southwest Region, Denton, TX. April, 1996.
- Deafness in Dalmatians. Dalmatian Association of Louisiana. New Orleans, LA. June, 1998.
- Deafness in Dalmatians. Dalmatian Club of America. Perry, GA. June, 1998.
- Research Administration in American Research I Institutions. Higher Education Institute - Guangxi Provence (PRC) University Presidents and Vice Presidents. Baton Rouge, LA (LSU). August, 1998.
- Research at LSU. Rotary Club, St. Francisville, LA. March, 1999.
- Deafness in Dogs. Whippet Club of America. St. Louis, MO. April, 1999.



**SEMINAR PRESENTATIONS: (cont.)**

- Managing the University's Research Responsibilities. Higher Education Institute at LSU - Guangxi Province (PRC) University Presidents and Vice Presidents. Baton Rouge, LA. January, 2000.
- Deafness in Dogs. Louisiana Kennel Club. New Orleans. January, 2000.
- Charting the Course of Knowledge. Sigma-Xi - Baton Rouge Chapter 75<sup>th</sup> Anniversary Ceremonies. April, 2001.
- Deafness in Dogs. Hunt Country Classic Working Terrier Trials, Jack Russell Terrier Club of America, Warenton, VA. May, 2003.
- Ethics in Science. CHEM 6691 *Science & Technology in Service to the Community*. LSU. June, 2003.
- Congenital Deafness in Dogs - Mechanisms and Current Research. Australian Cattle Dog Club of America, Rancho Santa Fe, CA. September, 2004.
- Ethics in Academia. RNR 7070 *Science Ethics Seminar*. LSU. April, 2005.
- Ethics in Research. LSU SVM Equine Health Studies Program. May, 2009.
- Authorship and Research Ethics. LSU SVM Equine Health Studies Program. December, 2009.
- The Science of Zombies. Panel Discussion. LSU Undergraduate Research Conference. LSU. October 31, 2014.

**NONREFEREED PUBLICATIONS: (Incomplete listing)**

- **Strain, G.M.** 1987. Clinical auditory function testing. *LSU SVM Magazine* 2(3):4,7.
- **Strain, G.M.** 1987. Auditory function testing. *The Spotter* (Dalmatian Club of America Newsletter) 18(1):28-30.
- **Strain, G.M.** 1987. Auditory function testing. *Transcanadals* (Dalmatian Club of Canada Newsletter) May/June: 11.
- **Strain, G.M.** 1990. Deafness screening in 1,031 Dalmatians. *The Spotter* (Dalmatian Club of America Newsletter) 20(4):8.
- **Strain, G.M.** 1990. Clinical auditory function testing. *Dal Doodles* (Delaware Valley Dalmatian Club Newsletter) September: 7-10.
- **Strain, G.M.** 1990. Deafness screening in 1,031 Dalmatians. *Transcanadals* (Dalmatian Club of Canada Newsletter) September/October: 10.
- **Strain, G.M.** 1991. Scrapie and BSE. *J. Am. Vet. Med. Assoc.* 198:360. (Letter to the editor.)
- **Strain, G.M.** 1991. Phenotypic correlates and incidence studies of congenital deafness in the Dalmatian. *Hereditary Deafness Newsletter* No. 6: 28.
- **Strain, G.M.** 1991. Epilepsy and genetics in dogs. *The Spotter* (Dalmatian Club of America Newsletter) 21:220-221.
- **Strain, G.M.** 1992. Genetics of deafness in dogs. *Kuvasz Quarterly* (Kuvasz Club of America Newsletter) Summer: 25-27.
- **Strain, G.M.** 1992. Genetics of deafness in dogs. *The ECSCA Review* (English Cocker Spaniel Club of America Newsletter) Fall: 15-16.
- **Strain, G.M.** 1993. Genetics of deafness in dogs. *Southwest Kuvasz Fanciers* January: 7-9.
- **Strain, G.M.** 1993. Clinical auditory function testing. *Southwest Kuvasz Fanciers* January: 10.
- **Strain, G.M.** 1993. Hereditary congenital sensorineural deafness. *Progr. Vet. Neurol.* 3:134. (Letter to the editor.)
- **Strain, G.M.** 1993. Letter to the editor. *J. Vet. Int. Med.* 7:104-5.
- **Strain, G.M.** 1994. Reducing deafness in dogs. *Pure-Bred Dogs/Amer. Kennel Gazette* August, 1994, pp 56-57.
- **Strain, G.M.** 1994. Genetics of deafness in dogs. *True Grit* (Jack Russell Terrier Club of America Magazine) 18:39-42.
- **Strain, G.M.** 1994. Update on deafness research in Dalmatians. *The Spotter* (Dalmatian Club of America Newsletter). Winter, 1994.
- **Strain, G.M.** 1996. Deafness in dogs. In: D. Abney, *The Louisiana Catahoula Leopard Dog*. Doral Publishing: Wilsonville, OR, pp 81-84.

**NONREFEREED PUBLICATIONS: (cont., Incomplete listing)**

- **Strain, G.M.** 1996. Commentary on deafness in Dalmatians. *Dog World (U.K.)*, Oct. 4, 1996, p 24.
- **Strain, G.M.** 1996. Deafness in the Dalmatian. *Spots of News* (British Dalmatian Club Newsletter). Oct., 1996. 391: 4-5.
- **Strain, G.M.** 1996. Deafness in dogs. *The ECSCA Review* (English Cocker Spaniel Club of America), Fall 1996, pp 103-105.
- **Strain, G.M.** 1999. Deafness. *The Catahoula Chronicle* (American Catahoula Association) 4(2): 1,5,8.
- **Strain, G.M.** 2000. What is the BAER test? *The Parson Review* (Official Newsletter of the Assn. Of Parson JRT Fanciers) 1(1): 13-14.
- **Strain, G.M.** 2001. Interview with George M. Strain, Ph.D. *The Spotter* (Dalmatian Club of America Newsletter). Spring, 2001, pp 59-60.
- **Strain, G.M.** 2002. Genetics of deafness. *Busy Borders* (Periodical of the Border Collie Club of Queensland) 8(1):4-6, September, 2002.
- **Strain, G.M.** 2004. Genetics of deafness. *Nemetskij Dog* ("Great Dane" in Russian), Autumn 2004.
- **Strain, G.M.** 2005. Genetics of deafness in dogs. *Old English Sheepdogs*. 6<sup>th</sup> Year, Issue 22:4-7.
- **Strain, G.M.** 2005. Causes of sudden onset of deafness. *Old English Sheepdogs*. 6<sup>th</sup> Year 22:8-10.
- **Strain, G.M.** 2005. Hereditary deafness in dogs and cats: Causes, prevalence, and current research. *The Smooth & Wire Quarterly* (fox terrier enthusiast magazine) 5(3): 30-34;44-45. Fall, 2005.
- **Strain, G.M.** 2006. Genetic deafness in dogs. In: G. Keller. *The Use of Health Databases and Selective Breeding*, Orthopedic Foundation for Animals, Columbia, MO, 5<sup>th</sup> ed., pp 67-71.
- **Strain, G.M.** 2007. Color and deafness in dogs. *Dogs in Review* 11(2):109-112.
- **Strain, G.M.** 2007. Merle. *Top Notch Toys* April, 2007. 2 pp.
- **Strain, G.M.** 2007. Deafness and the merle gene. *Los Chihuahuas* 32(4): 4-8.
- **Strain, G.M.** 2010. Taubheit und das Merle-Gen. *Collie Revue* 33(133):64-66.
- **Strain, G.M.** 2015. Deafness in the Labrador Retriever. *The Labrador Quarterly* 31(3):69-70. Spring.
- **Strain, G.M.** 2015. Color and deafness in dogs. *The Mastiff Legacy* 38:18-23. Spring/Summer 2015.
- **Strain, G.M.** 2017. Genetics and inheritance of canine deafness. *Transcanadals*. The Dalmatian Club of Canada. July/Aug/Sept 2017, pp 8-13.
- **Strain, G.M.** 2017. Introduction. In: Becker, Susan Cope, *Living with a Deaf Dog*. 2<sup>nd</sup> ed., pp ix-xii.
- **Strain, G.M.** 2021. Molecular Genetic Studies of ACD Deafness: Status Update. *Heeler Holler*. Australian Cattle Dog Club of Canada. Spring 2021.

**INTERNET PUBLICATIONS:****Designer/Author:**

**Strain, G.M.** 1997. Deafness in Dogs & Cats. <http://www.lsu.edu/deafness/deaf.htm>.

## PUBLISHED/BROADCAST INTERVIEWS: (Incomplete listing)

### Television:

- "Canine Deafness." *The Gentle Doctor: Veterinary Medicine* - Public Broadcasting System (WEDU). 1992 (broadcast dates differed at different PBS affiliates).
- "Deafness in dogs." FOX Channel 44, April, 1995.
- "Dalmatian Dotty." *Southern Eye* - British Broadcasting System, December, 1996.

### Radio:

- "Deafness in dogs." Pet Talk public affairs program, KASU Public Radio, Jonesboro, AR. June 21, 2001.
- "Deaf Dogs." The Pet Buzz, an animal-related lifestyle radio program airing in NY, FL and a variety of other states. September 29, 2016.

### Print:

- "Researching Deafness in Dalmatians," by Gewirtz EW. *Purebred Dogs-The AKC Gazette*. 108(1):74-79. Jan 1991.
- "Hearing loss a challenge for veterinarians, owners." *Veterinary Product News*. 5:5-13. Jan 1993.
- "Deaf pets take patience but give love," by Pennock F. *Lancaster (PA) Intelligencer Journal*. March 1, 1993, p B5.
- "Deaf dogs breaking barriers of silence," by Thurston ME. *Dog World*. June 1993, pp 46-48.
- "Living with a deaf dog," by Shaw FP. *Dog Fancy*. 24(7):59-62. July 1993.
- "Living with a deaf cat," by Shaw FP. *Cat Fancy*. 37(1): 10-13. 1994.
- "Those doggone vet-care costs." *Money Magazine*. 23(4): 146-158. April 1994.
- "LSU professor studies deafness in Dalmatians." Baton Rouge *Advocate*, March 19, 1995, B1-B2.
- "School studies deaf Dalmatians." *The Daily Reveille*, 99(90):1, March 28, 1995.
- "Dog breeds studied for deafness." *LSU Today* 11(33):1-2, April 21, 1995.
- "Studies focus on deafness." *Dog World*, July, 1995, p.10.
- "Deafness: Some cats lose hearing almost immediately; others later." *Cat Watch* (Cornell University), 6(10):1, 10, Oct 2002.
- "How to help a pet with hearing loss." *Healthy Pet*, Winter 2018/2019, pp 18-19.

**RESEARCH FUNDING:**

(approximately \$7.8M while at LSU)

**Current:**

- *MITF* Gene Variants in Pigment-Associated Deafness in Dogs SVM CORP. PI. \$10,000. 2020-2021.
- Mouse and Guinea Pig Models for Cytomegalovirus and Herpes Simplex Viruses. NIH-National Institute of Allergy and Infectious Diseases subcontract through Cincinnati Children's Hospital Medical Center. CoPI (5%). Current year funding: \$126,307. 2018-2021.
- Self-generated funds from clinical electrodiagnostic testing. \$157,387. 1984-present (2020).

**Past:**

- Evaluation of *MITF* as a Candidate Gene for Pigment-Associated Hereditary Deafness in the Dog. CBS Bridge. PI. \$6,680. 2019-2020.
- The Role of the *MITF* Gene in Pigment-Associated Deafness in Dogs. SVM CORP. PI. \$8,000. 2018-2019.
- The Role of the *MITF* Gene in Pigment-Associated Deafness in Dogs. CBS Bridge. PI. \$2,000. 2018-2019.
- Hereditary Deafness in Dogs - Genomic Studies in English Setters Using Full Sibling Pairs. AKC Canine Health Foundation. PI. \$12,960. 2017-2019.
- Hereditary Deafness in Dogs - Genomic Studies in Australian Cattle Dogs and Dalmatians Using Full Sibling Pairs. AKC Canine Health Foundation. PI. \$120,015. 2015-2018.
- Mouse and Guinea Pig Models for Cytomegalovirus and Herpes Simplex Viruses. NIH-National Institute of Allergy and Infectious Diseases subcontract through Cincinnati Children's Hospital Medical Center. Co-PI (5%). (PI: Rhonda Cardin). \$126,307. 2017-2018.
- Distortion product otoacoustic emissions in cats. LSU HHMI Summer Research Program. P.I. (Kain A. McGee) 2016. \$4,000.
- Distortion product otoacoustic emissions for detecting presbycusis in dogs. LSU NIH Biomedical Research Experience for Veterinary Scholars. P.I. (Ayxa J. Rosado Martinez) 2015. \$6,669.
- Presbycusis in geriatric dogs. LSU HHMI Summer Research Program. P.I. (Kain A. McGee) 2015. \$4,000.
- Support of the LSU Integrative Medicine Program. American Holistic Veterinary Medicine Foundation. P.I. 2013. \$60,000.
- Determination of humane euthanasia techniques in American alligators. HCP and Swatch Group. Co-I. 2011. \$20,000.
- Pharmacokinetics and pharmacodynamics of lidocaine in *Amazona ventralis* (Hispaniolan Amazon parrots). Morris Animal Foundation. Co-PI. 2011. \$4000.
- Pharmacokinetics and pharmacodynamics of bupivacaine, ropivacaine, lidocaine, levobupivacaine and mepivacaine in *Gallus domesticus*, *Anas platyrhynchos*, *Mympicus hollandicus* and *Amazona ventralis*. LSU VCS CORP Grant. Co-I. 2010-2011. \$4,000.
- Antagonism of gentamicin ototoxicity. Merck-Merial Research Scholar Award Program. PI. Summer 2010. \$5,500.
- Vestibular evoked myogenic potentials. Howard Hughes Medical Institute Undergraduate Summer Research Program. PI. Summer 2010. \$4,000.
- Experimental intracranial hemorrhage in the pig. SVM CORP Grant. PI. 2009-2011. \$10,000.
- Assembly of a DNA pedigree for whole genome screens for hereditary deafness in the Jack Russell terrier. Jack Russell Terrier Research Foundation. PI. 2003-2006. \$8,000.
- Distortion product otoacoustic emissions in dogs - A screening tool for deafness. Merck-Merial Research Scholar Award Program. PI. Summer 2006. \$5,500.
- Canine deafness MSS2 whole genome scan. Morris Animal Foundation. PI. 2005-2006. \$84,240. Awarded but not funded.
- Presbycusis in geriatric dogs. Merck-Merial Research Scholar Award Program. PI. Summer 2005. \$5,500.
- Frequency-specific auditory evoked responses in the dog for applications in Alport Syndrome and presbycusis. NIH Biomedical Research Experience for Veterinary Students (BREVIS) Program. PI. Summer 2004. \$4,775.
- Endogenous seizure inhibiting activity of the vagus nerve. NIH Biomedical Research Experience for Veterinary Students (BREVIS) Program. PI. Summer 2004. \$4,775.
- Whole genome screens using microsatellite markers in genetic analyses of hereditary deafness in the Dalmatian and English Setter. AKC Canine Health Foundation (#2264). Co-P.I. \$78,000. 2001-2003.
- Analgesic effect of percutaneous extracorporeal shock wave application to the third metacarpus bone and palmar digital nerves in horses. LSU Equine Health Studies Program. Co-I. \$5,000. 2001-2003.

**RESEARCH FUNDING: (cont.)**

- Effects of hyperbaric oxygen treatment on selected surgical and medical cases. P.I. and Co-investigator. Self-generated funds. 1989-2003.
- LSU/Audubon Center for Research of Endangered Species Project. Louisiana Board of Regents. P.I. \$1,450,000. 2001-2002.
- Genetics of hereditary deafness in the domestic dog. AKC Canine Health Foundation (#1870). Co-P.I. \$76,000. 1999-2001.
- LSU/Audubon Center for Research of Endangered Species Project. Louisiana Board of Regents. P.I. \$1,200,000. 2000-2001.
- Louisiana State University request for high performance connection to vBNS. National Science Foundation. NSF ANI9871138 (REU supplement). P.I. \$10,175. 2000.
- Louisiana State University request for high performance connection to vBNS. National Science Foundation. NSF ANI9871138 (supplement). P.I. \$86,667. 2000.
- Louisiana State University request for high performance connection to vBNS. National Science Foundation. NSF ANI9871138. P.I. \$350,000. 1998-2000.
- LSU/Audubon Center for Research of Endangered Species Project. Louisiana Board of Regents. P.I. \$1,200,000. 1999-2000.
- LSU/Audubon Center for Research of Endangered Species Project. Louisiana Board of Regents. P.I. \$600,000. 1998-1999.
- Congenital deafness in dogs: Incidence, phenotype correlates, and modes of inheritance. American Kennel Club. P.I. \$29,100. 1993-1998.
- Effect of sympathetic receptor stimulation and type I muscarinic receptor blockage on gastric ulcerogenesis induced by cervical cord transection. Earl K. Long Medical Center Emergency Medicine Education Fund. P.I. \$4,500. 1995-1997.
- Effect of ambient temperature and vascular status on gastric ulceration after cervical spinal cord transection in the rat. Southern Medical Association. P.I. \$2,300. 1996-1997.
- Creatine Kinase Changes After Electromyography. Self-generated funds. P.I. \$480. 1997.
- Postnatal auditory function development in normal and congenitally deaf dogs. NIH. \$106,007. 1991-1996.
- Ototoxicity assessment of a gentamicin sulfate otic preparation in dogs. Schering-Plough Animal Health. P.I. \$7315. 1992-95.
- Effect of hyperbaric oxygen on lipid peroxidation in free skin grafts. JC Davis Foundation. Co-I. \$1000. 1995-96.
- Effect of hyperbaric oxygen treatment on wound healing in normal and streptozotocin-induced diabetic rats. LA-SVM. Co-investigator. \$4000. 1994-1995.
- Lipid peroxidation activity in free skin grafts and the effect of hyperbaric oxygen treatment. Part I: Chronologic documentation of lipid peroxidation activity. VCS Organized Research Funds. Co-investigator. \$1,000. 1993-1995.
- Lipid peroxidation activity in free skin grafts and the effect of hyperbaric oxygen treatment. Part I: Chronologic documentation of lipid peroxidation activity. Charles E. Blass Memorial Foundation. Co-investigator. \$2,000. 1993-1995.
- Brainstem auditory evoked potentials and visual evoked potentials in cats. Howard Hughes Medical Institute Undergraduate Research Program. \$2300. 1995.
- Dalmatian hearing research. Dalmatian Club of America. P.I. \$1000. 1990-1994.
- Dalmatian hearing research. Chicagoland Dalmatian Club. P.I. \$1500. 1990-1994.
- Dalmatian hearing research. Dalmatian Club of Northern California. P.I. \$400. 1990-1994.
- Deafness research. Golden State English Setter Club. P.I. \$50. 1991-1994.
- English setter hearing research. Oakley Eyewear/Jim Jannard. P.I. \$1000. 1991-1994.
- English setter hearing research. Monterey Bay English Setter Club. P.I. \$500. 1992-1994.
- English setter hearing research. Warren and Jo Strouse. P.I. \$250. 1992-1994.
- Deafness research. Puget Sound English Setter Club. P.I. \$100. 1992-1994.
- Electroretinogram and visual evoked potential measurements in horses. P.I. Self-generated funds.
- Ototoxicity of Gentocin Otic and Oti-Clens in the dog. LA-SVM 1541. P.I. \$3710. 1992-1993. Declined.
- Visual evoked potential changes in experimental polioencephalomalacia in lambs. P.I. Self-generated funds. Somatosensory evoked potential measurements in cattle. P.I. Self-generated funds.
- Flash and pattern-reversal visual evoked potentials in B6CBAF<sub>1</sub>/J and C57BL/6J mice. Ochsner Medical Research Foundation. P.I. \$1000 (approx.) 1991-1992.
- Toxicity of veterinary otic cleansing solutions in the dog. Louisiana Kennel Club. P.I. \$1240. 1991-1992.

**RESEARCH FUNDING: (cont.)**

- Neurotoxicity of the fire ant insecticide Amdro. Partial support by American Cyanamid. P.I. \$1000 (approx.) 1984-1990.
- Effect of intravenous deferoxamine colloid administration and hyperbaric oxygen therapy on the acceptance of avascular, autogenous skin grafts in the dog. LA-SVM. Co-investigator. \$4,000. 1991-1992.
- Postnatal auditory function development in normal and congenitally deaf dogs. LA-SVM 1272. P.I. \$4000. 1990-1991.
- Hyperbaric oxygen and a model for subcutaneous *Mycobacterium fortuitum* infections. LA-SVM 1269. Co-Investigator. \$2556. 1990-1991.
- The effect of hyperbaric oxygen therapy on cancellous autogenous bone graft incorporation in the cat. LA-SVM. Co-investigator. \$1,500. 1990-1991.
- The effects of chlorhexidine acetate on vestibular and cochlear function in the dog. LA-SVM-VCS. Co-investigator. \$1000. 1990-1991.
- The effect of hyperbaric oxygen therapy on a compromised axial pattern flap in the cat. LA-SVM-VCS. Co-investigator. \$1069. 1990-1991.
- USDA Minority Research Apprenticeship Program. P.I. \$2500. Summer 1990.
- Electrodiagnostic System Upgrade. LSU Foundation. P.I. \$1550. 1989-1990.
- Control of nerve and muscle interactions by neuronal cell adhesion molecules (CAMs) during development and regeneration. Louisiana Board of Regents Education Quality Thrust Fund. Co-P.I. \$177,450. 1987-1990.
- Hyperbaric oxygen effects on diabetic neuropathy. American Diabetes Association - Louisiana Affiliate. P.I. \$3000. 1988-1989.
- Treatment of diabetic neuropathies with hyperbaric oxygen. LA-SVM 1009. P.I. \$3805. 1988-1989.
- Transcranial motor evoked potentials in the dog. Veterinary Medical Student Honors Program. P.I. \$2400. Summer 1989.
- USDA Minority Research Apprenticeship Program. P.I. \$2500. Summer 1989.
- Effect of hyperbaric oxygen on CSF levels of gentamicin. LA-SVM 1020. Co-investigator. \$1500. 1988-1989.
- Postnatal development of the canine brainstem auditory evoked potential (BAEP). Veterinary Medical Student Honors Program. P.I. \$2400. Summer 1988.
- Objective assessment of analgesic compounds by thermal evoked potentials. LA-SVM 850. P.I. \$3168. 1987-1988.
- Equipment support for neurologic studies - Neurotrac EEG and Evoked Potential Monitoring System. Nicolet Biomedical Instruments Co. P.I. \$17,000. 1988.
- Effects of hyperbaric oxygen therapy on brown recluse spider venom tissue necrosis. LA-SVM 910. P.I. \$1500. 1987-1988.
- Effects of different types of surgical intervention on nerve regeneration. LA-SVM. Co-investigator. \$3194. 1987-1988.
- Effects of analgesics on pain perception and lameness in horses. LA-SVM 630. Co-investigator. \$34,000. 1985-1988.
- Normative neurologic electrodiagnostic values in food animal species. USDA Formula Funds. P.I. \$10,600. 1984-1987.
- Development of neural repair prostheses and functional tests of reinnervation. LSU Biotechnology Grant. Co-P.I. \$19,993. 1987.
- Electrodiagnostic evaluation of the canine urogenital system: pudendal nerve evoked potentials. LA-SVM 846. P.I. \$3000. 1986-1987.
- Neurotoxicity and neuropharmacology of the fire ant insecticide Amdro. LA-SVM 610. P.I. \$3019. 1985-1986.
- USDA Minority Research Apprenticeship Program. P.I. \$2500. Summer 1986.
- Neonatal anorexia in Brahman cattle ("dummy calf" syndrome). American Brahman Breeders Association. Co-P.I. \$6228. 1984-1985.
- Neonatal anorexia in Brahman cattle ("dummy calf" syndrome). Kerr Foundation. Co-investigator. \$12,000. 1984-1985.
- Neurotoxicity of Mississippi River pollutants. LA-SVM 498. P.I. \$3600. 1984-1985.
- Multimodality evoked potentials for assessment of neurotoxicity. LA-SVM 384. P.I. \$4000. 1983-1984.
- USDA Minority Research Apprenticeship Program. P.I. \$2500. Summer 1984.
- Neurochemistry of toxic diamines. LA-SVM 307. P.I. \$4000. 1982-1983.

**RESEARCH FUNDING: (cont.)**

- A system for data acquisition and analysis for the life sciences. NIH Biomedical Research Support Grant. P.I. \$1500. 1982-1983.
- USDA Minority Research Apprenticeship Program. P.I. \$2500. Summer 1983.
- Effects of diamines on synaptosomal transport of amino acid transmitters. LA-SVM 247. P.I. \$3999. 1981-1982.
- USDA Minority Research Apprenticeship Program. P.I. \$2500. Summer 1982. Neurotoxicity of simple aliphatic diamines. LA-SVM 149. P.I. \$4000. 1980-1981.
- Experimental epilepsy in rabbits: Model development and effects of cerebellar surface stimulation. LA-SVM 72. P.I. \$2800. 1979-1980.
- Experimental epilepsy in rabbits. NIH Biomedical Research Support Grant. P.I. \$1000. 1979-1980.

**HIGH PERFORMANCE COMPUTING ALLOCATIONS (scalable units):**

- Deafness Research. LSU HPC. 50,000 SU. 2018-2019.
- Genomics of Canine Hereditary Deafness. LSU HPC. 500,000 SU. 2019-2020.

**GRADUATE STUDENT COMMITTEES:**

PhD - major professor:	Marlene Camacho Ochoa (VPT-1987) - Cerebroprotective Activity of U-50488H: Relationship to Interaction with Excitatory Amino Acids and Calcium Cathryn K. Stevens-Sparks (CBS-2012) - Anatomical Studies of Canine Vascular and Ligamentous Ear Structures with Relevance to Acute-Onset Deafness
PhD - minor professor:	Weaver (Speech-1988), Littman (Speech-1990)
PhD - outside examiner:	Sommerlad (University of Queensland, Australia - 2012)
PhD - member:	Kanwal (Zool-1986), Marceau-Day (VPT-1988), Tate (VPT-1989), Harkins (VPT-1990), Hamra (VPT-1990), Lamb (Zool-1991), Remsen (VPT-1992), Das (Zool-1993), Owens (VPT-1994), Kang (Zool-1994), Smith (ComSciDis-1995), Skellet (ComSciDis-1996), Meseke (Zool-1997), Borne (VPT-1998), McLain (ChemE-1998), Mosser (Psych-1998), Hilsabeck (Psych-1999), Zhou (VPT-1999), Thaw (Psych-2002), Lindman (Psych-2004), Hawley (Psych-2005), Roy (CBS-2007), Silva (Psych-2010), Cutrera (CBS-2011), Elks (CBS-2011), LeJeune (CBS-2011), Stead (ComD-2011), Brown (Psych-2011), McIlhenny (CBS-2012), Qualls-Creekmore (CBS-2013), Flanagan (CBS-2013), Wilson (CBS-2014), Nair (CBS-2015), Konst (Psych-2015), Hill (CBS-2016), Butler (Biol Sci-2019), Sultana (CBS-2020), Gandhi (CBS- ), Venable (CBS- ).
MS - major professor:	Sharon Kerwin (VPT-1993) - Hyperbaric Oxygen Enhancement of Tissue Healing. Bruce Smith (VPT-1996) - Comparison of Two Methods of Interfragmentary Fixation in a Short Oblique Fracture Model.
MS - member:	Al-Tikriti (VAN-1984), Lamb (Zool-1986), Clare (VPT-1988), Fucci (VPT-1990), Littlefield-Chabaud (VPT-1994), Wolf (Psych-1994), Clarke (CBS-2017)
Externs/postdoctoral:	G. Maier (University of Vienna-1996), J. Birch (Oder, Denmark-2003), H. Lefebvre (Toulouse, France-2007), C. Layssol-Lamour (Toulouse, France-2007), J. Pawlusiow (Long Island, NY- 2012), C. Stevens-Sparks (Ross Univ., St. Kitts-2017) J.C. Zella (Lomira, WI-2017), R. Yates, Jr (New Orleans, LA-2018), Elsjø Marnewerk (Massey Univ.-2019)



## VETERINARY STUDENT RESEARCH MENTORSHIPS:

- Laura D. Hokett (1985)
- David R. Thompson (1988)
- Rose M. Jackson (1988)
- Judith S. Prescott-Mathews (1989)
- Alan C. Twedt (1992)
- Paul M. Cheramie (1992)
- Kristen Lester (Noland) (2004)
- Tiffany Rainier (Quitania) (2004)
- Alice Holifeld (Smith) (2005)
- Connie McMillan (2006)
- Amy Turner (Smith) (2007)
- Christine Zewe (2010)
- Ayxa J. Rosado Martinez (2015)

## UNDERGRADUATE STUDENT RESEARCH MENTORSHIPS:

- Dayatra J. LaPhand (1990)
- Lisa T. Treviño (1995)
- Shelly Cochrane (2010)
- Asia Fernandes (2014)
- Kain A. McGee (2015; 2016)

## HIGH SCHOOL STUDENT RESEARCH MENTORSHIPS:

USDA Minority Research Apprenticeship Program students: 1982; 1983; 1984; 1986; 1989; 1990.

## TEACHING ACTIVITIES:

### Professional:

VMED 5109	<i>Physiology I.</i> Lectures on membrane excitability.
VMED 5171	<i>Veterinary Neuroscience.</i> Physiology lectures (half of course).
VMED 5223	<i>Veterinary Pharmacology.</i> Lectures on autonomic, anticonvulsant, and neuromuscular blocking drugs, behavioral pharmacology, veterinary pharmacy.
VMED 5373	<i>Veterinary Toxicology.</i> Lecture on organophosphates and carbamates.
VMED 5010	<i>Special Topics: Electrodiagnostic Tests in Veterinary Neurology.</i> Entire course.

### Graduate:

CBS 7614	<i>Central Nervous System.</i> Entire course.
CBS 7617	<i>Autonomic Nervous System.</i> Entire course.
CBS 7630	<i>Veterinary Pharmacology.</i> Lectures on autonomic, anticonvulsant, and neuromuscular blocking drugs, behavioral pharmacology, veterinary pharmacy.
CBS 7631	<i>Veterinary Neuroscience.</i> Physiology lectures (half of course); course coordinator.
VCS 7205	<i>Advanced Veterinary Clinical Neurology.</i> Lectures on electrodiagnostics, CNS pharmacology.
VCS 7202	<i>Veterinary Surgical Techniques (Neurosurgery).</i> Electrodiagnostics laboratories.
VCS 7210	<i>Veterinary Scientific Journal Review.</i> Electrodiagnostics lectures.
VMED 7004	<i>Introduction to Research.</i> Lecture on intellectual property and publications in research.

## JOURNAL EDITORIAL BOARDS AND REVIEWING:

### Editorial:

*BMC Veterinary Research* - Associate Editor (2011-present)  
*Frontiers in Veterinary Science - Neurology and Neurosurgery*, Associate Editor (2015-present)  
*Progress in Veterinary Neurology* - Associate Editor (1991-1997)  
*The Veterinary Journal* (formerly *British Veterinary Journal*) - Editorial Board (2003-2005; 2006-2008; 2009-2012)  
*American Journal of Veterinary Research* - Editorial Board (1990-1992; 1994-1996; 2004-2006; 2007-2010)  
*Conference Papers in Veterinary Science* - Editorial Board (2012-2015)

### Manuscript Reviewer:

*Journal of Veterinary Internal Medicine*  
*Journal of the American Veterinary Medical Association*  
*Journal of the American Animal Hospital Association*  
*The Veterinary Record*  
*Research in Veterinary Science*  
*Australian Veterinary Journal*  
*Acta Veterinaria Scandinavica*  
*Equine Veterinary Journal*  
*Journal of Equine Veterinary Science*  
*Journal of Veterinary Pharmacology and Therapeutics*  
*Journal of Small Animal Practice*  
*Journal of Veterinary Behavior*  
*Journal of Medical Primatology*  
*Canadian Journal of Veterinary Research*  
*Canadian Veterinary Journal*  
*Progress in Veterinary and Comparative Ophthalmology*  
*Veterinary Dermatology*  
*Compendium on Continuing Education for the Practicing Veterinarian*  
*Münchener Tierärztliche Wochenschrift*  
*Journal of Zoo and Wildlife Medicine*  
*Journal of Exotic Pet Medicine*  
*Frontiers in Aging Neuroscience*  
*Frontiers in Neurology*  
*Biological Procedures Online*  
*Toxicologic Pathology*  
*Mammalian Genome*  
*Animal Genetics*  
*Functional & Integrative Genomics*  
*Genetika*  
*Genes*  
*Journal of Pediatric Genetics*  
*Pharmacology, Biochemistry and Behavior*  
*Physiology & Behavior*  
*World Journal of Gastroenterology*  
*Journal of the Acoustical Society of America*  
*International Archives of Otorhinolaryngology*  
*Journal of Theoretical Biology*  
*Marine Environmental Research*  
*Pakistan Journal of Zoology*

### REVIEW PANELS:

National Institutes of Health (ad hoc)  
 USDA National Research Initiative (ad hoc)  
 UK Medical Research Council (ad hoc)  
 Israeli Ministry of Science, Technology and Space (ad hoc)  
 21<sup>st</sup> Century Research and Technology Fund - State of Indiana  
 J. Bennett Johnson Science Foundation  
 AKC Canine Health Foundation  
 Louisiana Governor's Office of Environmental Education

## PROFESSIONAL AND SCIENTIFIC ADVISORY OFFICES:

Baton Rouge Chapter, Society for Neuroscience (Founder; President 1985-1988, 1990-1991, Sec/Treasurer 1988-1990).

Louisiana Science & Engineering Fair Advisory Board, Scientific Advisory Committee (Chair, 1986-1988).

School of Veterinary Medicine Biomedical Engineer (1978-1997).

## FACULTY MENTORING COMMITTEE CHAIRMANSHIPS (LSU SVM CBS):

- Henrique Cheng
- Margaret McNulty
- Ji-Ming Feng
- Michelle Osborn
- Sonika Patial
- Michael Ogundele

## COMMITTEES AND BOARDS:

### University Committees:

LSU Faculty Senate (1985-1988, 1991-1994, Executive Council 1986-1988, 1991-1992, 1996-1997, Parliamentarian 1991-1993, Secretary 1993-1994, President 1994-1995, 1995-1996, Past President 1996-1997)

Ad Hoc University Committee - Faculty Evaluation Criteria for Promotion and Tenure (PS-36) (1988-1989)

Ad Hoc Faculty Senate Committee - Bylaws and Constitution Revision (1988-1989)

Faculty Senate Committee on Committees (1988-1991, chair 1990-1991, 2004-2006)

LSU Graduate School Dean Search Committee (1989-1990)

Advisory Council, LSU Division of Instructional Support and Development (1989-1990)

Conference of Louisiana Colleges and Universities, Annual Meeting, LSU Faculty Representative (1992, 1994, 1996, 1997)

LSU Budget Committee, Faculty Representative (1992-1994, 1994-1996)

Ad Hoc University Committee on University Policy on Smoking (PS-76) (Chair, 1994)

LSU Access Program Taskforce (1994)

Ad Hoc Committee - University Policy on Student Evaluation of Instruction (Chair, 1995-96)

University Facilities Planning Committee (1994-2000)

Computing Services Advisory Committee (1995-97)

Faculty Senate Review and Long-Range Planning Committee (*ex officio*) (1994-1996)

Ad Hoc University Exigency Plan Writing Committee (1994-1996)

LSU System Honorary Degree Committee (1994-1996)

University Honorary Degree Committee (1996-1997)

Ad Hoc University Committee - Alternative Academic Career Paths at LSU (1995-1997)

Chancellor's Executive Council (1994-1996; 2000-2001)

Faculty Club Oversight Committee (1995-2000)

University Strategic Planning Committee (1995-1997)

Inter-Institutional Academic Council [LSU and Southern University] (1995-1996)

LSU System Faculty Advisory Council (Vice Chairman, 1995-1996)

Louisiana Board of Regents Faculty Advisory Committee (Chairman, 1995-1997)

Faculty Senate Commencement Exercises Committee (1996-1997)

Ad Hoc University Committee - PS-36 (Promotion/Tenure) Revision (1996-1997)

Ad Hoc University Committee - PS-9 (Continuing Education) Revision (Chair, 1997)

Ad Hoc University Committee - PS-69 (Misconduct in Research) Revision (Chair, 1997)

LSU Home Page Committee (1997-2000)

Council on Research (*ex officio*, 1997-2002)

Graduate Council (*ex officio*, 1997-2002)

LSU Dean of Students Search Committee (1999-2000)

LSU Director of Minority Student Services Search Committee (1999-2000)

LSU High Performance Computing Taskforce (1999-2000)

LSU African-American Cultural Center Coordinator Search Committee (1999)

Campus Jubilee Committee (2000-2001)

College of Engineering Titled Professorships Committee (2001-2002)  
 Graduate School Associate Dean Search Committee (2002)  
 Faculty Senate Grievance Committee (2005-2008)

### **College Committees:**

SVM Data Processing Advisory Committee (1979-1981)  
 SVM Research Committee (1982-1986, chairman 1983-1986)  
 SVM Faculty Council (1983-1985, secretary 1984-1985, *ex officio* 1985-1988, 1991-1994)  
 Ad Hoc SVM Committee on Honorific and Visiting Scientist Positions (1986)  
 Ad Hoc SVM Committee on Instructional Resources Review (1989)  
 SVM Year I Coordinator (1989-1993)  
 SVM Courses and Curriculum Committee (1989-1993)  
 SVM Scholastic Standings Committee (1991-1993)  
 SVM Equine Research Advisory Committee (1992-1995, Chair 1994-1995)  
 Aesculapian Lecture Series Committee (1992-1993)  
 SVM Graduate Academic Studies Council (1994-1998, Chair 1996-1997, 2006-2013)  
 SVM Faculty Computer Advisory Committee (2003-present)  
 Ad Hoc SVM Information Technology Committee (2010)  
 Dean's Cabinet (2010-2012)  
 SVM Administrative Council (2010-2012)  
 Integrative Medicine Committee (Research Subcommittee Chair 2012-present)  
 SVM Graduate Status Committee (Chair 2013-present)  
 SVM IT Director Search Committee (2014-2015)  
 SVM Statistician Search Committee (2017-2018)  
 SVM Faculty Policy Committee (2018-2021)  
 SVM Dean's Advisory Committee for Promotion and Tenure (2019-present)  
 SVM Dean's Executive Committee (2020-present)  
 SVM Faculty Affairs Adjudication/resolution Committee (2021-present)

### **Departmental Committees:**

Mentoring Committee - Shisheng Li, Committee Chair (2005-2010)  
 Mentoring Committee - Henrique Cheng, Committee Chair (2006-2012)  
 Graduate Advisor, Faculty Advisor (2005-2013)  
 Department Web Master, Webmaster (2005-2015)  
 Mentoring Committee - Margaret McNulty, Committee Chair (2012-2015)  
 Department Promotion and Tenure Committee, Committee Member (2013-present)  
 Anatomy Search Committee: Faculty, Committee Chair (2016-2017)  
 Mentoring Committee - Michelle Osborn, Committee Chair (2016-present)  
 Mentoring Committee - Sonika Patial, Committee Chair (2017-present)  
 CBS P&T Guidelines Committee, Committee Chair (2017)  
 Mentoring Committee - Mike Ogundele, Committee Chair (2018-present)  
 Mentoring Committee – Henrique Cheng, Committee Chair (2019-present)  
 Graduate Student Affairs Committee (2019-present)  
 CBS Department Executive Committee (2019-present)  
 Department Head Search Committee, Committee Member (2019-2020)  
 Anatomy Search Committee, Committee Chair (2019-present)

### **LSU System/State Committees:**

Louisiana Accountability in Higher Education Advisory Committee, Subcommittee on Teaching, Research and Service (1993-1994)  
 Association of Louisiana Faculty Senates (Vice President 1994-1995, President 1995-1997)  
 Proaction Commission for the 21<sup>st</sup> Century (1995) (appointed by Governor Edwin Edwards)  
 Gubernatorial Higher Education Transition Team (appointed by Governor Mike Foster) (1995-1997)  
 Louisiana Workforce Planning Council (1996-1997)  
 Louisiana Board of Regents EPSCoR Committee (1997-2002, Vice-Chair 2001- 2002)  
 Louisiana Purchase Bicentennial Commission (appointed by Governor Mike Foster) (1999-2003)  
 Louisiana State University System Technology Transfer Advisory Committee (2000-2001)  
 Louisiana Board of Regents Support Fund Planning Committee (2000-2002)

**Boards:**

Environmental Research Consortium of Louisiana (Steering Committee, 1997, Board of Trustees, 1998-2001, 2001-2004, 2004-2007)  
 J. Bennett Johnston Science Foundation Scientific Advisory Board (2001-2004)  
 Keep Baton Rouge Beautiful (Board of Directors, 1998-2021, Vice Chair 2003-2004, Chair 2004-9)  
 Friends of the Baton Rouge Zoo (Board of Directors & Executive Committee, 1999-2002)  
 African American Cultural Center Governing Board (1994-2000)  
 Executive Board of the Louisiana Universities Marine Consortium (LUMCON) for Research and Education (2000-2001)  
 Oak Ridge Associated Universities Council of Sponsoring Institutions (2000-2002)  
 Baton Rouge Research Park Board of Directors (2000-2001)  
 Southeastern Universities Research Association (SURA) Board of Trustees (2000-2002)  
 NASULGC Council on Research Policy and Graduate Education Institutional Representative (2001-2002)  
 Coastal Restoration and Enhancement through Science and Technology Consortium Executive Board (2000-02)

**PROFESSIONAL MEETINGS ATTENDED (1996-present):**

- 4<sup>th</sup> Annual Conference on Faculty Roles & Rewards. American Association of Higher Education. Atlanta, GA, January, 1996.
- Introductory Workshop for Institutional Misconduct Officials. NIH Office of Research Integrity. Bethesda, MD, June, 1997.
- Strong Sciences & EPSCoR Alliances. NSF EPSCoR 13<sup>th</sup> Annual Conference. New Orleans, LA, December, 1997.
- 6<sup>th</sup> Annual Conference on Faculty Roles & Rewards. American Association of Higher Education. Orlando, FL, January, 1998.
- EPSCoR Coalition Annual Meeting. Washington, DC, March, 1998.
- Leveraging Research. Office of Naval Research and Society of Research Administrators University and Business Technology Conference. Biloxi, MS, April, 1998.
- The Research Business of the Land-Grant/Public Institutions. Council on Research Policy and Graduate Education, National Association of State Universities & Land-Grant Colleges. St. Louis, MO, April, 1998.
- Making the Net Work for Research and Higher Education. NSF & AAAS. San Diego, CA, Oct, 1998.
- Council of Presidents, Southeastern Universities Research Association. Washington, DC, December, 1998.
- Council of Presidents, Universities Research Association. Washington, DC, February, 1999.
- National Workshop to Develop Guidance for NSF Advanced Networking Infrastructure Support. NSF & AAAS. Washington, DC, February, 1999.
- Internet2 Applications Workshop. SURA/Jefferson Laboratories. Washington, DC, July, 1999.
- NSF EPSCoR Social Behavioral and Economic Sciences (SBE) Conference. Jackson, MS, September, 1999.
- The Federal-University Partnership. White House Office of Science and Technology Policy. Atlanta, GA, October, 1999.
- Council of Presidents, Universities Research Association. Washington, DC, January, 2000.
- 8<sup>th</sup> Annual Conference on Faculty Roles & Rewards. American Association of Higher Education. New Orleans, LA, February, 2000.
- Undoing Racism Training for Mental Health Workers. People's Institute for Survival and Beyond. New Orleans, LA, February, 2000.
- Council of Presidents, Southeastern Universities Research Association. Charlottesville, VA, December, 2000.
- Council of Presidents, Universities Research Association. Washington, DC, January, 2001.
- 9<sup>th</sup> Annual Conference on Faculty Roles & Rewards. American Association of Higher Education. Tampa, FL, February, 2001.
- AAAS Executive Workshop on Academic Strategic Planning, San Francisco, February, 2001.
- Advanced Investigative Techniques for Research Misconduct. USPHS Office of Research Integrity. Bethesda, MD, September, 2001.
- Workshop on Assessment of Witness Credibility. USPHS Office of Research Integrity. Bethesda, MD, September, 2001.
- Molecular Biology of Hearing and Deafness. NIH-NIDCD and UC San Diego. Bethesda, MD, October, 2001.
- Environmental State of the State Conference. Environmental Research Consortium of Louisiana. Thibodeaux, LA, October, 2001.

- National Association of State Universities and Land-Grant Colleges Annual Meeting, Council on Research Policy and Graduate Education (CRPGE). Washington, DC, November, 2001.
- NOAA-Academia Partnership Building Conference, National Oceanographic and Atmospheric Administration and NASULGC, Washington, DC, November, 2001.
- Tufts- Canine and Feline Breeding and Genetics Conference. Sturbridge, MA, October, 2003.
- 8º Congreso Internacional de Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, May 2005.M
- Congreso Internacional de Medicina, Cirugia y Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, May, 2006.
- Third International Conference on Advances in Canine and Feline Genomics. Davis, CA, August, 2006.
- Society for Neuroscience Annual Meeting. New Orleans, LA, October, 2012.
- American Holistic Veterinary Medical Association Annual Meeting. Kansas City, MO, August, 2013.
- Society for Neuroscience Annual Meeting. Chicago, IL, October, 2015.
- 9<sup>th</sup> International Conference on Canine and Feline Genetics and Genomics. St. Paul, MN, May, 2017.
- 7<sup>th</sup> Annual LA Conference on Computational Biology & Bioinformatics. Baton Rouge, LA, April, 2019.

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