

## CURRICULUM VITAE

**NAME:**

**George Michael Strain**



**PRESENT ADDRESS:**

Comparative Biomedical Sciences  
2417 School of Veterinary Medicine  
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9864 Buttercup Drive  
Baton Rouge, Louisiana 70809  
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**CITIZENSHIP:**

United States

**DATE OF BIRTH:**

August 31, 1949

**FAMILY:**

Married; three children

### **ADMINISTRATIVE POSITIONS:**

Interim Vice Chancellor for Research and Dean, Graduate School, July 2000 - August 2001

Responsibilities: administration and promotion of University research and graduate studies, 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.

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.

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.

### **EDUCATION:**

1967-71

University of Illinois -B.S.

Urbana, Illinois -Electrical Engineering



**Iowa State University, Ames**

Department of Mathematics  
Instructor, 1974-76  
Teaching Assistant, 1973-74  
Department of Veterinary Physiology & Pharmacology  
Research Assistant, 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  
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  
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  
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  
Omicron Delta Kappa (Leadership Honorary Society), 1996  
Phi Kappa Phi (Academic Honor Society), 1999  
University Medal, Ecole Nationale Vétérinaire de Toulouse, Toulouse France, March, 2008.  
Who's Who in: Veterinary Science and Medicine; South and Southwest; Emerging Leaders in America;  
American Education; Science and Engineering; Medicine and Healthcare

**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 COMMITTEES:**

### **University:**

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:**

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-present)  
SVM Faculty Computer Advisory Committee (2003-present)

**System/State:**

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 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, 1998-2004, Vice Chair 2003-2004, Chair 2004-)  
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)

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

**CURRENT APPOINTMENT:** Tenured

**GRADUATE FACULTY STATUS:** Full member

## **JOURNAL EDITORIAL BOARDS AND REVIEWING:**

*The Veterinary Journal* (formerly *British Veterinary Journal*) - editorial board (2003-2005; 2006-2008; 2009-)  
*Progress in Veterinary Neurology* - manuscript reviewer, Associate Editor (1991-1997)  
*American Journal of Veterinary Research* - editorial board (1990-1992; 1994-1996; 2004-2006; 2007-2009)  
*Journal of Veterinary Internal Medicine* - manuscript reviewer  
*Journal of the American Veterinary Medical Association* - manuscript reviewer  
*The Veterinary Record* - manuscript reviewer  
*Research in Veterinary Science* - manuscript reviewer  
*Australian Veterinary Journal* - manuscript reviewer  
*Journal of Veterinary Pharmacology and Therapeutics* - manuscript reviewer  
*Canadian Journal of Veterinary Research* - manuscript reviewer  
*Progress in Veterinary and Comparative Ophthalmology* - manuscript reviewer  
*Veterinary Dermatology* - manuscript reviewer  
*Compendium on Continuing Education for the Practicing Veterinarian* - manuscript reviewer  
*Toxicologic Pathology* - manuscript reviewer  
*Mammalian Genome* - manuscript reviewer  
*Pharmacology, Biochemistry and Behavior* - manuscript reviewer  
*Physiology & Behavior* - manuscript reviewer  
*Journal of the Acoustical Society of America* - manuscript reviewer  
*Journal of Theoretical Biology* - manuscript reviewer  
*Marine Environmental Research* - manuscript reviewer

## **FUNDING REVIEW PANELS :**

National Institutes of Health (ad hoc)  
USDA National Research Initiative (ad hoc)  
UK Medical Research Council (ad hoc)  
J. Bennet Johnson Science Foundation  
AKC Canine Health Foundation  
Louisiana Governor's Office of Environmental Education

## **GRADUATE STUDENT COMMITTEES:**

PhD - major professor: Camacho Ochoa (VPT-1987) - Cerebroprotective Activity of U-50488H:  
Relationship to Interaction With Excitatory Amino Acids and Calcium  
Cathryn K. Sparks (CBS-)  
PhD - minor professor: Weaver (Speech-1988), Littman (Speech-1990)  
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), Garcie (Psych- ), Elks (CBS- ), LeJeune (CBS- ), Silva (Psych- ), Cutrera (CBS- ), McIlhenny (CBS- ), Brown (Psych-), Zhang N (CBS-).

MS - major professor: Kerwin (VPT-1993) - Hyperbaric oxygen enhancement of tissue healing.  
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)

Externs/postdoctoral: Maier (University of Vienna-1996), Birch (Oder, Denmark-2003)

### **RESEARCH INTERESTS:**

Deafness, clinical neurophysiology (evoked potentials, electroencephalography, electromyography), clinical and experimental neurology, autonomic nervous system, neurotoxicology, neural regeneration, epilepsy.

### **RESEARCH FUNDING:**

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.

Self-generated funds from clinical electrodiagnostic testing. ~\$65,314. 1984-2008.

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.

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.

**RESEARCH FUNDING: (cont.)**

- 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.
- 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.

**RESEARCH FUNDING: (cont.)**

- 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.

### RESEARCH FUNDING: (cont.)

- 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.
- 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.

### REFEREED PUBLICATIONS:

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.
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.
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.
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.
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.
6. **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.
7. **Strain, G.M.**, W. Flory, and T.A. Tucker. 1984. Inhibition of synaptosomal uptake of amino acid transmitters by diamines. *Neuropharmacology* 23:971-975.
8. **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.
9. **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.
10. 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.
11. **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.
12. **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.

**REFEREED PUBLICATIONS: (cont.)**

13. 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.
14. **Strain, G.M.**, and J.D. Carter. 1987. Atraumatic loop electrodes for electroretinography. *Vet. Res. Commun.* 11:9-13.
15. **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.
16. **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.
17. **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.
18. 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.
19. 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.
20. 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.
21. **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.
22. **Strain, G.M.**, and W. Flory. 1989. Simple aliphatic diamines: Acute neurotoxicity. *Res. Commun. Chem. Pathol. Pharmacol.* 64:489-492.
23. **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.
24. **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.
25. **Strain, G.M.** 1989. Survey of neuroscience instruction in North American veterinary curricula. *J. Vet. Med. Educ.* 16:47-49.
26. 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.
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- **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.
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- **Strain, G.M.** 2007. Deafness and the merle gene. *Los Chihuahuas* 32(4): 4-8.

**INTERNET PUBLICATIONS:**

**Designer/Author:**

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

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##### **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.

##### **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.
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#### **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.

### **SEMINAR PRESENTATIONS:**

- SVM Organized Research funds: purposes, evaluation and administration. LSU School of Veterinary Medicine, Department of Veterinary Anatomy and Fine Structure. Baton Rouge, November, 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.
- 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.

### **SEMINAR PRESENTATIONS:**

- 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 Province (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.
- 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.

### **RECENT 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.
- 8<sup>o</sup> Congreso Internacional de Zootecnia en Perros, Gatos y otras Mascotas, Acapulco, Mexico, May 2005.
- 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.

## TEACHING ACTIVITIES:

### Professional:

- VMED 5111 *Veterinary Physiology I*. Membrane excitability.  
VMED 5171 *Veterinary Neuroscience I*. Physiology lectures. Course coordinator.  
VMED 5223 *Veterinary Pharmacology*. Lectures on autonomic, anticonvulsant, and neuromuscular blocking drugs.  
VMED 5203 *Animals in Society II*. Pharmacology of behavior.

### Graduate:

- CBS 7614 *Central Nervous System*. Entire course.  
CBS 7617 *Autonomic Nervous System*. Entire course.  
CBS 7630 *Veterinary Pharmacology*. Lectures on autonomic, anticonvulsant, and neuromuscular blocking drugs.  
CBS 7631 *Veterinary Neuroscience*. Entire course.  
CBS 7105 *Biomedical Cell and Molecular Biology*. Lectures on neuron cell biology and disease.  
VCS 7205 *Advanced Veterinary Clinical Neurology*. Lectures on electrodiagnostics.  
VCS 7202 *Veterinary Surgical Techniques (Neurosurgery)*. Electrodiagnostics laboratories.  
VMED 7004 *Introduction to Research*. Lecture on ethics in research.