

CURRICULUM VITAE

LOUISE C. ABBOTT, PH.D., D.V.M.

PRESENT POSITION AND ADDRESS:

Title: Associate Professor
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EDUCATION:

<u>Degree/Training</u>	<u>Conferring Institution</u>	<u>Field</u>	<u>Year</u>
B.A.	Whitman College, Walla Walla, Washington	Biology	1975
Ph.D.	University of Washington Seattle, Washington	Zoology	1982
D.V.M.	Washington State University Pullman, Washington	Veterinary Medicine	1988

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS:

1999-Present	Associate Professor, Department of Veterinary Anatomy & Public Health, Texas A&M University, College Station, Texas
1995-Present	Faculty Member, Neuroscience Program and Toxicology Program, Texas A&M University, College Station, Texas
1994-1999	Assistant Professor, Department of Veterinary Anatomy & Public Health, Texas A&M University, College Station, Texas
1988-1994	Member Neuroscience Faculty, University of Illinois at Urbana/Champaign, Urbana, Illinois
1989-1994	Assistant Professor, Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, Illinois

- 1988-1989 Visiting Assistant Professor, Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, Illinois
- 1983-1988 Assistant Professor, Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology, College of Veterinary Medicine, Washington State University, Pullman, Washington
- 1982-1983 Postdoctoral Research Associate, Department of Veterinary and Comparative Anatomy, Pharmacology Physiology, College of Veterinary Medicine, Washington State University, Pullman, Washington
- 1979-1982 Research Assistant, Department of Zoology, University of Washington, Seattle, Washington
- 1975-1978 Teaching Assistant, Department of Zoology, University of Washington, Seattle, Washington

CLINICAL SPECIALTY/BOARD CERTIFICATION:

Licensed in Illinois (D.V.M.)

AWARDS AND HONORS:

Mortar Board, Whitman College, 1974
 Phi Beta Kappa National Honor Society, Whitman College, 1975
 Graduated magna cum laude, with honors in major study, Whitman College, 1975
 Summer Fellowship, Developmental Biology Training Program, University of Washington, 1977
 Fellowship, Developmental Biology Training Program, University of Washington, 1977-1981
 Phi Zeta Veterinary Honor Society, Washington State University, 1985
 Graduate Student Travel Award, Washington State University, 1987
 Seattle-King County Veterinary Medical Association Scholarship, Washington State University, 1988
 Graduated cum laude, Washington State University, 1988
 Arnold O. Beckman Research Award, University of Illinois, 1989
 Phi Kappa Phi National Honor Society, University of Illinois, 1990
 SAVMA Veterinary Medical Teaching Excellence Award in Basic Sciences, University of Illinois, 1990
 College of Veterinary Medicine Teaching Award, University of Illinois, 1993
 Listed on Incomplete List of Teachers Ranked Excellent, University of Illinois, 1989, 1990, 1991, 1992, 1993
 Fulbright Research Scholarship, Paris, France, 1994
 TAMU Montague Center for Teaching Excellence Scholar of the College of Veterinary Medicine, 1997-1998
 Sigma Xi National Honor Society, Texas A&M University, 1998
 Samuel F. Scheidy Memorial Award, American Veterinary Medical Association (for research excellence), 1999

EDITORIAL BOARDS:

None

REVIEWER FOR SCIENTIFIC JOURNALS:

American Journal of Veterinary Research
Journal of Neuroscience Methods
International Journal of Developmental Neuroscience
Journal of Neurobiology
Journal of Neurogenetics
Journal of Neuroscience
Journal of Neuroscience Methods
Journal of Neuroscience Research
Journal of Neurochemistry
Brain Research
Neuroscience
Neuroscience Letters
Neurobiology of Learning and Memory
Neurotoxicity Research

GRANT REVIEW COMMITTEES:

NIH Ad Hoc Study Section BDCN-1, Member - February, June, October, 2001;
February, October, 2002; February, June, 2003
NIH Study Section CND, Ad Hoc Member - October, 2003
USDA National Research Initiative Competitive Grants Program, Ad Hoc reviewer, April, 2001

TEACHING EXPERIENCE:

Teaching responsibilities at Texas A&M University include basic science instruction for first year veterinary students (Histology and Embryology). Teaching responsibilities also include participation in graduate neuroscience education. Details are provided below.

Texas A&M University

Veterinary Anatomy & Public Health 911: Veterinary Histology (4 credits; 180 contact hours),
Assisted with laboratory instruction - 1995, 1996, 1997, 1998 (fall semesters)

Veterinary Anatomy & Public Health 911: Veterinary Histology/Embryology (4 credits; 210 contact
hours), Course coordinator - 2000, 2001, 2002 (fall semesters)
Co-course coordinator - 2003 (fall semester)

Veterinary Anatomy & Public Health 913: Veterinary Embryology (1.6 credits; 84 contact hours),
Course coordinator - 1997, 1998, 1999 (spring semesters)

Veterinary Anatomy & Public Health 913: Veterinary Histology/Embryology (1.6 credits; 84 contact
hours), Course coordinator - 2001, 2002, 2003 (spring semesters)
Co-course coordinator - 2004 (spring semester)

Veterinary Anatomy & Public Health 602: Graduate Embryology Embryology (5 credits; 75 contact
hours), co-course coordinator -1995; course coordinator - 1999 (spring semesters)

Course coordinator - 2003 (fall semester)

Veterinary Anatomy and Public Health 601: Graduate Gross Anatomy (5 credits; 100 contact hours), Instructor in charge, 1998 (summer session)

Veterinary Anatomy and Public Health 606: Graduate Neurobiology course with emphasis on neurodegenerative diseases - Co-course coordinator 2003 (spring semester)

Veterinary Anatomy and Public Health 640: Graduate Neurobiology Embryology (5 credits; 75 contact hours), Assisted with lectures and coordination of class – 1998, 1999, 2002 (spring semesters)

Veterinary Anatomy and Public Health 912: Veterinary Gross Anatomy Embryology (5 credits; 108 contact hours), assisted with laboratory instruction - 1999 (spring semester)

Veterinary Anatomy and Public Health 485: Research projects - working in the Abbott laboratory
Fall 2002 - 3 undergraduate students
Spring 2003 - 3 undergraduate students
Summer 2003 - 1 undergraduate student
Fall 2003 - 7 undergraduate students
Spring 2004 - 5 undergraduate students

Veterinary Anatomy and Public Health 499: Special topics, undergraduate seminar, “Calcium in Learning and Memory” (2 credits, 30 contact hours), course coordinator - 1999 (spring semester)

TAMU Undergraduate Honors Program - Mentor for Individual Research Projects

1 student – Undergraduate Honors Program fall 2000; spring 2001

1 student – Undergraduate Honors Program fall 2002; spring 2003

University of Illinois

Veterinary Biosciences 300: Veterinary Gross Anatomy I, Instructor-in-Charge - 1991, 1992, 1993

Veterinary Biosciences 302: Veterinary Gross Anatomy II, Assisted with laboratory instruction - 1991, 1992, 1993

Physiology 405: Neurochemistry, Co-Instructor- in-Charge - 1990

Washington State University

Veterinary Anatomy 401: Veterinary Gross Anatomy, Assisted with laboratory instruction and with lectures – 1984, 1985, 1986, 1987, 1988

Functional Anatomy of Domestic Animals 308: Anatomy of Domestic Animals for Undergraduates, Assisted with lectures – 1986

Microscopic Anatomy 405: Lectures on Developmental Anatomy - 1984

Texas A&M University Graduate Students

Name	Degree	Institution	Advisor or committee member	Date of completion
David Mayerich	PhD	TAMU - Computer Sci	committee member	current
Hanan Elsayed Abdou	PhD	TAMU - Chemistry	committee member	current
Dr. Bhupinder Bawa	PhD	TAMU - VAPH	Major Professor	current
Dr. Sairam Bellum	PhD	TAMU – Toxicology	Major Professor	current
Kerry Thuett	PhD	TAMU – Toxicology	Major Professor	current
Dr. Tamy Frank	PhD	TAMU – VAPH	Major Professor	current
Wonrull Koh	PhD	TAMU – Computer Sci	Committee member	current
Dr. Xiuhong Liu	PhD	TAMU- VAPH	Committee member	current
Amy Sieve	PhD	TAMU- Psychology	Committee member	current
Dr. Nesrin Serpedin	MS	TAMU – VAPH	Major Professor	December, 2003
Dr. Sang-Soep Nahm	PhD	TAMU - VAPH	Major Professor	August, 2002
Paulette Waters	MS	TAMU – Pathobiology	committee member	December, 2002
Melissa Braddock	MS	TAMU - Journalism	committee member	May, 2002
Meredith Walker	PhD	TAMU - Biology	committee member	August, 2002
Dr. Cheryl Guyer	PhD	TAMU - Pathobiology	committee member	dropped program
Mary A. Manwell -Jackson	PhD	TAMU- Education	Graduate Faculty Rep	May, 2002
Dr. Hadi Falashatpiseh	PhD	TAMU- VTPP	committee member	May, 2002
Mary Jo Garcia	PhD	TAMU- Education	Graduate Faculty Rep	December, 2001
Brandon Webb	MS	TAMU - Journalism	committee member	May, 2000
Salvador A. Lee	PhD	TAMU - Chem. Eng.	Graduate Faculty Rep	December, 1999
Wei-Li Wu	MS	TAMU - Biology	committee member	August, 1999
Dr. Dana B. Walker	MS	TAMU - VAPH	Major Professor	December, 1998
Eric Taylor	PhD	TAMU - Forestry	Graduate Faculty Rep	August, 1998
Francis C. Lau	PhD	TAMU - VAPH	Major Professor	February, 1999
Hanna Craig	PhD	TAMU - VAPH	committee member	August, 1998
Scott Vacha	PhD	TAMU - VAPH	committee member	May, 1997
Kimberly Greer	MS	TAMU - VAPH	committee member	May, 1996

Texas A&M University Residents/Interns/Postdoctoral Fellows

Dr. Im Joo Rhyu	Postdoctoral Fellow	TAMU - VAPH	Advisor	1996-1997
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Texas A&M University Predoctoral Fellows and Advisees

Advisor, University Undergraduate Research Fellows Program, Kris Lukauskis, 2000-2001
Mentor, VAPH 485 - Individual undergraduate student research projects; one to three students per semester, including summer sessions, 1996, 1997, 1998, 1999, 2000, 2001
Mentor, NASA SHARP PLUS Summer Research Opportunities for High School Students,
Raul Grajeda - summer, 1999; Claudia Gonzalez – summer, 2001
Advisor, Veterinary Student Summer Research Program; Michelle Browning, Jessica Sterns, Dana Tomlinson, summer 2001
Mentor, Myoclonus Research Foundation Summer Research Fellows, Amy Brandl - summer, 1998;
Damon Donoho - summer, 1999.
Mentor, NIH Summer Research Internship for Veterinary Students, Melissa Bump -summer, 1997, Scarlett De Laune - summer, 1998

Mentor, Howard Hughes Minority Undergraduate Fellowship; two students per semester, 1994 – 1997; three students per semester, 1997 - 1999

Advisor, Pre-Vet Society (undergraduate club), Texas A&M University, 1996-1999

Mentor, NIH Summer Bridges Program: two students, 1995; one student, 1996; one student, 1997

University of Illinois Graduate Students:

Name	Degree	Institution	Advisor or committee member	Date of completion
Krystyna Isaacs	PhD	UIUC - Neuroscience	Major Professor	December, 1992
Michael Conforti	MS	UIUC - Biology	Major Professor	May, 1993
Katrin Rodriguez	MS	UIUC - Biology	committee member	1989-1994
Brendon Bell	MS	UIUC - Vet. Clin. Med.	committee member	May, 1992
Carol Davis	PhD	UIUC - Vet. Biosci.	committee member	May, 1993
Daniel Ness	PhD	UIUC - Vet. Biosci.	committee member	December, 1993
Heiko Jansen	PhD	UIUC - Vet. Biosci.	committee member	December, 1993
Sigmund Degitz	PhD	UIUC - Vet. Biosci.	committee member	1993-1994

Neuroscience Graduate Program – committee assignments

Albert Gadbut - Rotation Supervisor. Neuroscience Graduate Program, Biology Department, March 1989-January 1990.

Krystyna Isaacs - Rotation Supervisor. Neuroscience Graduate Program, Biology Department, September 1989-January 1991.

Jeremy Payne - Diagnostic Committee. Neuroscience Graduate Program, Biology Department, 1990-1994.

Christopher Gallasie - Diagnostic Committee. Neuroscience Graduate Program, Biology Department, 1990-1994.

Robert Althoff - Diagnostic Committee. Neuroscience Graduate Program, Biology Department, 1991-1994.

Albert Gadbut - PhD Committee. Neuroscience Graduate Program, Biology Department, 1990.

Predocctoral Fellows:

University of Illinois

Mary Hernandez - NSF Summer Undergraduate Research Fellowship Advisor. Biology Department, June-August 1989.

Charmaine Jake - Undergraduate Honors Program Advisor. Psychology Department, August 1989-December 1990.

Mentor, Summer Research Apprenticeship Program for Minority High School Students (one student, 1990; two students, 1992)

Mentor, Summer Research Apprenticeship Program for Undergraduate Minority Students (one student, 1990)

RESEARCH/SCHOLARLY ACTIVITIES:

DATE	Pending Research Support	AMOUNT
12/04 - 11/08	NIEHS Mechanisms of methylmercury-induced neuronal injury	\$800,000

Current Research Support

DATE		AMOUNT
06/03 - 05/04	NIEHS/ CERH Pilot Project Effects of Methylmercury on Mitochondrial Function	\$ 25,000
12/02 - 11/07	NIH Interaction of MHV RNA with mtHSP70 and m-aconitase Dr. Julian Leibowitz is the PI; Louise C. Abbott (Co-Investigator)	\$ 875,000
09/03 - 08/08	NIH-NIA Physiology of Cholinergic Basal Forebrain Neurons - (competing renewal) Dr. William Griffith - PI; Louise C. Abbott Co-Investigator	\$ 900,000

Past Research Support

Texas A&M University

DATE		AMOUNT
5/02-4/03	VAPH Bridging funds to Dr. L. C. Abbott	\$ 20,000
5/98-4/03	NIH-NIAAAA Fetal Alcohol Syndrome - Third Trimester Model - Co-Investigator (Dr. James West - PI)	909,956
1/98-12/02	NIH-NIA Physiology of Cholinergic Basal Forebrain Neurons - Co-Investigator (Dr. William Griffith - PI)	477,935
4/98-3/02	DHHS-PHS-NIH, Center for Environmental and Rural Health - Center Investigator (Dr. Stephen H. Safe - PI)	2,591,280
5/00-12/01	Center for Environmental and Rural Health - Pilot Project Molecular mechanisms of methylmercury toxicity	15,000
5/00-12/01	Center for Environmental and Rural Health - Pilot Project Organophosphate Effects on Neuronal Differentiation	15,000
6/00 - 5/01	TAMU Creative and Scholarly Program Fund Molecular mechanisms of neuronal death in leaner mice, an animal model of neurodegenerative disease (Dr. James Derr is Co-PI)	7,100
6/00 - 5/01	CVM Signature Program Enhancement Initiative Calcium channel mutations and Purkinje cell death	11,714
11/99-10/00	CVM Signature Program Enhancement Initiative	17,000

Texas A&M University

DATE		AMOUNT
8/99-7/00	Alternatives Research and Development - Effect of Organophosphates on Neuronal Molecular Differentiation – Co-Principal Investigator (Dr. Evelyn Tiffany-Castiglioni - PI)	39,995
6/99-5/00	CVM Signature Program Enhancement Initiative CVM Neuroscience Program Principal Investigator (with 5 Co-PI's: J. Coates, C. Dewey, G. Stoica, R. Storts and C.J. Welsh)	80,000
5/99-4/00	Center for Environmental and Rural Health - Pilot Project Organophosphate Effects on Neuronal Differentiation Co-Principal Investigator (with Dr. Evelyn Tiffany-Castiglioni)	15,000
1/94-11/99	NIH-NINDS 1-K08-NS01681-05, Cerebellar Function in the Tottering Mouse – Principal Investigator	\$349,936
6/98-5/99	Myoclonus Research Foundation - The Role of Cerebellar Function in the Myoclonus-Like Movement Disorder of the Tottering Mouse - Principal Investigator	20,000
6/97-5/98	Texas A&M University Interdisciplinary Research Initiatives Program - Changes in Calcium Channel Function, mRNA Expression and Protein Production in the Tottering and Leaner Mouse - Co-Principal Investigator	25,000
6/97-5/98	Myoclonus Research Foundation - The Role of Cerebellar Purkinje Cell Output in the Tottering Mouse Myoclonus-Like Movement Disorder - Principal Investigator	20,000
6/95-5/96	Texas A&M University Interdisciplinary Research Initiatives Program - Investigation of cellular and molecular events in cerebellar Purkinje cell death in the mutant mouse, leaner	24,975
5/95-4/96	TAMU Research Enhancement Funds - Tottering, a murine model for human epilepsy: Analysis of a candidate gene (alpha-1A Ca ²⁺ channel)	7,500
1/95-12/95	Computer Access Fee Funds (TAMU) Computerized CT and MRI Lab Development	14,867
4/95-8/95	OSP Funds (CVM) Investigation of a candidate gene carrying the mutation which results in the mutant mouse, tottering, a model of human epilepsy	3,000

University of Illinois

DATE		AMOUNT
6/94-5/95	National Science Foundation. Major Shared Equipment Grant - Electron Microscope, University of Illinois - Co-Principal Investigator	557,062
5/94-10/94	Fulbright Research Scholarship, Paris, France	16,000
10/92-9/95	United States Department of Agriculture - Co-Principal Investigator	63,910
12/92-11/94	National Institutes of Health - Co-Investigator	298,094
7/90-4/92	Illinois Heart Association, N-13-IWA - Co-Investigator	19,882

University of Illinois

DATE		AMOUNT
4/90-3/91	BRSF Funds, RR-5460-20	4,994
6/90-5/91	Maria Caleel Fund - Co-Investigator	900
1/91-12/91	Shoestring Grant, University of Illinois	500
1/91-8/91	UIUC Campus Research Board Award, RES BRD JBM IWAMOTO G - Co-Investigator	20,000
2/89-1/91	Arnold O. Beckman Research Award, University of Illinois - Principal Investigator	30,655
7/89-6/90	Illinois Heart Association, N-13-IWA - Co-Investigator	19,851
3/89-2/90	BRSF Funds, RR05-46027	3,000
1/89-12/89	Shoestring Grant, University of Illinois	500

Washington State University

4/87-3/88	Animal Models Program, NIH Grant RR00515	6,685
4/87-3/88	BRSF Funds, NIH Grant RR05-46525	4,268
11/86-6/87	Animal Models Program, NIH Grant RR00515	1,200
5/86-12/86	VCAPP Research Funds, Washington State University	2,800
10/84-6/85	Funding for videotape production: The pelvic limb of the horse.- Washington State University, Grant-in-Aid.	1,000

BIBLIOGRAPHY: (Chronological order)

Publications in Refereed Journals: (journals only)

1. Cloney, R.A. and L.C. Abbott. 1980. The spermatozoa of ascidians: acrosomes and nuclear envelope. *Cell Tissue Res.* 206:261-270.
2. Abbott, L.C., G.H. Karpen, and G. Schubiger. 1981. Compartmental restrictions and blastema formation during pattern regulation in *Drosophila* imaginal leg discs. *Dev. Biol.* 87:64-75.
3. Taylor, S.M., G.D. Bennett, L.C. Abbott, and R.H. Finnell. 1985. Seizure control following administration of anticonvulsant drugs in the quaking mouse. *Eur. J. Pharmacol.* 118:163-170.
4. Finnell, R.H., S.P. Moon, **L.C. Abbott**, J.A. Golden, and G.F. Chernoff. 1986. Strain differences in heat-induced neural tube defects in mice. *Teratology* 33:247-252.
5. **Abbott, L.C.**, R.H. Finnell, G.F. Chernoff, S.M. Parish, and C.C. Gay. 1986. Crooked calf disease: A histological and histochemical examination of eight affected calves. *Vet. Pathol.* 23:734-740.
6. Bowker, R.M. and **L.C. Abbott**. 1988. The origins and trajectories of somatostatin reticulospinal neurons: A potential neurotransmitter candidate of the dorsal reticulospinal pathway. *Brain Res.* 447:398-403.
7. Bowker, R.M., **L.C. Abbott**, and R. P. Dilts. 1988. Peptidergic neurons in the nucleus raphe magnus and the nucleus gigantocellularis: Their distributions, interrelationships, and projections to the spinal cord. *Progress in Brain Research*, Elsevier, Amsterdam. 77:95-127.
8. Finnell, R.H., **L.C. Abbott**, and S.M. Taylor. 1989. The fetal hydantoin syndrome: Answers from a mouse model. *Reproduct. Toxicol.* 3:127-133.
9. Kalivas, P.W., A. Bourdelais, R. Abhold, and **L.C. Abbott**. 1989. Somatodendritic release of endogenous dopamine: In vivo dialysis in the A10 dopamine region. *Neuroscience Letters* 100:215-220.
10. Bowker, R.M. and **L.C. Abbott**. 1990. A quantitative re-evaluation of descending serotonergic and non-serotonergic neuron projections from the medulla of the rodent: Evidence for extensive co-existence of serotonin and peptides in the same spinally projecting neurons. *Brain Research* 512:15-25.
11. **Abbott, L.C.**, H.H. Nejad, W.G. Bottje, and A.S. Hassan. 1990. Glutathione levels in specific brain regions of genetically epileptic (*tg/tg*) mice. *Brain Research Bulletin* 25:629-631.
12. Patel, V.K., **L.C. Abbott**, A.K. Rattan, and G.A. Tejwani. 1991. Increased methionine-enkephalin levels in genetically epileptic (*tg/tg*) mice. *Brain Research Bulletin* 27:849-852.
13. Austin, M.C., M. Schultzberg, **L.C. Abbott**, P. Montpied, J.R. Evers, S.M. Paul, and J.N. Crawley. 1991. Expression of tyrosine hydroxylase in cerebellar Purkinje neurons of the mutant tottering and leaner mouse. *Molecular Brain Res.* 15:227-240.
14. Isaacs, K.R. and **L.C. Abbott**. 1992. Development of the paramedian lobule of the cerebellum in wild type and tottering mice. *Developmental Neuroscience* 14:386-393.

15. Bell, B., G.J. Baker, J.H. Foreman, and **L.C. Abbott**. 1993. In vivo investigation of communication between the distal intertarsal and tarsometatarsal joints in horses and ponies. *Vet. Surgery* 22:289-292.
16. **Abbott, L.C.**, M.L. Conforti, K.R. Isaacs, J.N. Crawley, and D. Sterchi. 1994. A simplified technique for histologic analysis of central nervous system tissues using pre-embedding immunocytochemistry coupled with plastic embedding. *J. Neurosci. Methods* 54:23-39.
17. Heckroth, J.A. and **L.C. Abbott**. 1994. Purkinje cell loss from alternating sagittal zones in the cerebellum of leaner mutant mice. *Brain Research* 658:93-104.
18. Isaacs, K.R. and **L.C. Abbott**. 1994. Cerebellar volume decreases in the tottering mouse are specific to the molecular layer. *Brain Research Bulletin* 36:309-314.
19. **Abbott, L.C.** and D.M. Jacobowitz. 1995. Development of calretinin-immunoreactive unipolar brush-like cells and an afferent pathway to the embryonic and early postnatal mouse cerebellum. *Anat. and Embryol.* 191:541-559.
20. Kilbourn, M.R., J.S. DaSilva, and **L.C. Abbott**. 1995. Mutant mouse strains as models for in vitro radiotracer evaluations: [¹¹C] Methoxytetraabenazine in tottering mice. *Nuclear Medicine and Biology.* 22(5):565-567.
21. Bell, B.T.L., G.J. Baker, **L.C. Abbott**, J.H. Foreman, and S.K. Kneller. 1995. The macroscopic vascular anatomy of the equine ethmoidal area. *Anat. Histol. Embryol.* 24: 39-45.
22. **Abbott, L.C.**, K.R. Isaacs, and J.A. Heckroth. 1996. Co-localization of tyrosine hydroxylase and zebrin II immunoreactivities in Purkinje cells of the mutant mice, tottering and tottering/leaner. *Neuroscience* 71(2):461-475.
23. Losonsky, J.M., **L.C. Abbott**, and I.V. Kuriashkin. 1997. Computed tomography of the normal feline nasal cavity and paranasal sinuses. *Veterinary Radiology and Ultrasound* 38(4):251-258.
24. de Bartolomeis, A., Koprivica, V., Pickard, D., Crawley, J.N. and **L.C. Abbott**. 1997. Opioidergic and dopaminergic gene expression in the caudate-putamen and accumbens of the mutant mouse, tottering (*tg/tg*). *Molecular Brain Research.* 46:321-324.
25. Lau, F.C., **L.C. Abbott**, I.J. Rhyu, D.S. Kim, and H. Chin. 1998. Expression of calcium channel $\alpha 1A$ mRNA and protein in the leaner mouse (*tg^{la}/tg^{la}*) cerebellum. *Molecular Brain Research* 59(1):93-99.
26. Kilbourn, M.R., P. Sherman and **L.C. Abbott**. 1998. Reduced MPTP neurotoxicity in striatum of the mutant mouse tottering. *Synapse* 30(2):205-210.
27. Dove, L.S., **L.C. Abbott**, and W.H. Griffith. 1998. Reduced P-type calcium currents in cerebellar Purkinje cells of leaner mutant mice. *J. of Neuroscience* 18:7687-7699.
28. Rhyu, I.J., **L.C. Abbott**, D.B. Walker and C. Sotelo. 1999. An ultrastructural study of granule cell/Purkinje cell synapses in tottering (*tg/tg*), leaner (*tg^{la}/tg^{la}*) and compound heterozygous, tottering/leaner (*tg/tg^{la}*) mice. *Neuroscience* 90(3):717-728.

29. Rhyu, I.J., S.-I. Oda, C.-S. Uhm, H. Kim, Y.-S. Suh and **L.C. Abbott**. 1999. Morphologic investigation of rolling mouse Nagoya (tg^{rol}/tg^{rol}) cerebellar Purkinje cells: an ataxic mutant, revisited. *Neurosci. Letters* 266:49-52.
30. **Abbott, L.C.** and D.M. Jacobowitz. 1999. Developmental expression of calrelinin- immunoreactivity in the thalamic eminence of the fetal mouse. *International J. of Devel. Neuroscience*. 17(4):331-345.
31. **Abbott, L.C.**, M. Bump, A. Brandl and S. DeLaune. 2000. Investigation of the role of the cerebellum in the myoclonic-like movement disorder exhibited by tottering mice. *Movement Disorders* 15(Suppl.1):53-59.
32. Dove, L.S., S.S. Nahm, D. Murchison, **L.C. Abbott** and W.H. Griffith. 2000. Altered calcium homeostasis in cerebellar Purkinje cells of leaner mutant mice. *J. Neurophysiology* 84:513-524.
33. **Abbott, L.C.** and C. Sotelo. 2000. Ultrastructural analysis of catecholaminergic innervation in weaver and normal mouse cerebellar cortices. *J. Comp. Neurology* 426(2):316-329.
34. Murchison, D., Dove, L.S., **Abbott, L.C.** and W.H. Griffith. 2002. Homeostatic compensation maintains C^{2+} signaling functions in Purkinje neurons in the leaner mutant mouse. *The Cerebellum* 1(2): 30-35.
35. Nahm, S., D. Tomlinson and **L.C. Abbott**. 2002. Decreased calretinin expression in cerebellar granule cells in the leaner mouse. *Journal of Neurobiology* 51:313-322.
36. Guyer, C.L., G. Stoica, J.E. Womak, R.W. Storts, J.N. Derr, and **L.C. Abbott**. 2002. A line of Berlin Druckerey IV rats proposed as a new model for human hereditary ataxia. *In vivo* 16:255-264.
37. Coates, J.R., D.P. O'Brien, K.L. Kline, R.W. Storts, G.C. Johnson, G.D. Shelton, E.E. Patterson, and **L.C. Abbott**. 2002. Neonatal Cerebellar Ataxia in Coton de Tulear Dogs. *J. Vet. Internal Medicine* 16:680-689.
38. Cicale, M., A. Ambesi-Impiombato, V. Cimini, G. Fiore, G. Muscettola, **L.C. Abbott** and A. de Bartolomeis. 2002. Decreased gene expression of calretinin and ryanodine receptor type 1 in tottering mice. *Brain Res. Bul.* 59(1):53-58.
39. Hsiao, S.-H., Parrish, A.R., Nahm, S.S., **Abbott, L.C.**, McCool, B.A., and G.D. Frye. 2002. Effects of early postnatal ethanol intubation on GABAergic synaptic proteins. *Devel. Brain Research* 138:177-185.
30. Rhyu, I.J., S. Nahm, S. J. Hwang, H. Kim, Y.S. Suh, S.I. Oda, T.C. Frank and **L.C. Abbott**. 2003. Altered neuronal NOS expression in the cerebellum of calcium channel mutant mice. *Brain Research*. 977:129-140.
41. Frank, T.C., M. Nunley, R. Renaldo, and **L.C. Abbott**. 2003. Fluoro-Jade identification of cerebellar granule cell and Purkinje cell death in the α_{1A} calcium ion channel mutant mouse, leaner. *Neuroscience*. 118:667-680.

42. Nahm, S.-S., Frank, T.C., Browning, M., Sepulvado, J., Hiney, J.K., and **L.C. Abbott**. 2003. Insulin-like growth factor-I improves cerebellar dysfunction but does not prevent cerebellar neurodegeneration in the calcium channel mutant mouse, *leaner*. *Neurobiology of Disease*. 14:157-165.

43. **L.C. Abbott**, S.-S. Nahm. Neuronal nitric oxide synthase expression in cerebellar mutant mice. *Cerebellum*. Submitted.

Book Chapters:

Finnell, R.H., **L.C. Abbott**, and C.C. Gay. 1991. Teratogenicity of rangeland Lupinus: Crooked calf disease. In: Handbook of Natural Toxins, Vol 6 (ed. R.F. Keeler and A.T. Tu). Marcel Dekker, New York, NY, pp 27-40.

Textbooks:

Jacobowitz, D.M. and **L.C. Abbott**. 1997. **Chemoarchitectonic Atlas of the Developing Mouse Brain**. CRC Press, Boca Raton, FL.

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2. Finnell, R.H., **L.C. Abbott**, J.A. Golden, and G.F. Chernoff. 1983. Genetic variables in hyperthermia-induced neural tube defects in the mouse. *Proc. Greenwood Genet. Ctr.* 2:93.

3. Murnane, J.M., **L.C. Abbott**, T.L. Spurgeon, R.H. Finnell, and G.F. Chernoff. 1984. Histopathology of heat-induced neural tube defects in the mouse. *Proc. Greenwood Genet. Ctr.* 3:111.

4. Finnell, R.H., **L.C. Abbott**, and G.F. Chernoff. 1984. Hyperthermia-induced neural tube defects: Genetic variables. *Teratology* 29:15A.

5. Bowker, R.M. and **L.C. Abbott**. 1985. The nucleus raphe magnus: The relationship between the peptidergic and serotonergic neurons. *Soc. Neurosci. Abstr.* 11:124.

6. Finnell, R.H., **L.C. Abbott**, S.P. Moon, and G.F. Chernoff. 1985. Global risk factors: Fact or Fantasy? *Teratology* 32:15A.

7. Chernoff, G.F., R.H. Finnell, **L.C. Abbott**, and C.C. Gay. 1986. Crooked calf disease: Evidence for teratogen-induced deformations. *Proc. Greenwood Genet. Ctr.* 5:160-161.

8. Bowker, R.M. and **L.C. Abbott**. 1986. Potential somatostatin, methionine-enkephalin, vasoactive intestinal peptide and 5HT interactions in the raphe nuclei and the nucleus gigantocellularis in the caudal medulla. *Soc. Neurosci. Abstr.* 12:229.
9. **Abbott, L.C.** and R.M. Bowker. 1986. A quantitative re-evaluation of the descending 5HT and non-5HT neurons in the caudal medulla: Evidence for extensive coexistence. *Soc. Neurosci. Abstr.* 12:293.
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17. Iwamoto, G.A., **L.C. Abbott**, and T.G. Waldrop. 1990. Neurochemical events in the spinal cord during stimulation of the rostral ventrolateral medulla. *Soc. Neurosci. Abstr.* 16:216.
18. Patel, V., **L.C. Abbott**, A. Rattan, and G.A. Tejwani. 1991. Met-enkephalin and β -endorphin levels in brain regions of genetically epileptic (*tg/tg*) mice. *FASEB Abstr.* 5(4):A474.
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20. **Abbott, L.C.**, M.L. Hernandez, E.J. Burke, and K.M. Rodriguez. 1991. Microdialysis of specific brain regions in the conscious mouse: Comparison between genetically epileptic (*tg/tg*) and normal mice. *Current Sep.* 10(3):94.

21. Heckroth, J.A. and **L.C. Abbott**. 1991. Sagittal organization of tyrosine hydroxylase expression in Purkinje cells of tottering and tottering-leaner compound heterozygous mutant mice. *Soc. Neurosci. Abstr.* 17:159.
22. **Abbott, L.C.** and J.A. Heckroth. 1992. Co-localization of tyrosine hydroxylase and zebrin immunoreactivities in Purkinje cells of tottering and tottering-leaner compound heterozygous mutant mice. *Soc. Neurosci. Abstr.* 18:156.
23. **Abbott, L.C.** and D.M. Jacobowitz. 1993. Embryonic development of calretinin (CR) neurons in the mouse cerebellum. *Soc. Neurosci. Abstr.*, 19:8.
24. de Bartolomeis, A., V. Koprivicia, D. Pickar, J.N. Crawley, and **L.C. Abbott**. 1993. Enkephalin mRNA in caudate nucleus of tottering mice. *Soc. Neurosci. Abstr.*, 19:76.
25. **Abbott, L.C.** and C. Sotelo. 1995. An electron microscopic analysis of noradrenergic innervation of the weaver cerebellum. *Soc. Neurosci. Abst.*, 21:2082.
26. **Abbott, L.C.**, I.J. Rhyu, D. Walker, and C. Sotelo. 1996. An electron microscopic study of purkinje cell and parallel fiber synapses in the cerebellar molecular layer of tottering (*tg/tg*), leaner (*tg^{la}/tg^{la}*) and compound heterozygous, tottering/leaner (*tg/tg^{la}*) mice. *Soc. Neurosci. Abst.* 22:1650.
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28. Ryan, M.C., T.C.D. Burazin, **L.C. Abbott**, and A.L. Gundlach. 1997. Galanin mRNA in the olivocerebellar system: Studies in mutant leaner and tottering mice. *J. Neurochem.* 69(Suppl.):S202D.
29. Rhyu, I.J., F. Lau, D. Walker, B. Chau, B. Webb, J.L. Abbott, and **L.C. Abbott**. 1997. Alterations in Cerebellar Morphology in Tottering and Leaner Mutant Mice. *Soc. Neurosci. Abst.* 23:1873.
30. Lau, F.C., I.J. Rhyu, H. Chin, and **L.C. Abbott**. 1997. Expression of the 1A voltage-sensitive calcium channel subunit in the leaner mouse. *Soc. Neurosci. Abst.* 23:2013.
31. Dove, L.S., **L.C. Abbott**, and W.H. Griffith. 1997. High-voltage-activated calcium currents are reduced in cerebellar Purkinje cells from the leaner mutant mouse. *Soc. Neurosci. Abst.* 23:2013.
32. **Abbott, L.C.**, M. Bump, M. Elishewitz, M. Vergara, A. Brandl, S. DeLaune, J., L. Abbott and K. Teel. 1998. Comparison of the effects of DSP-4 treatment versus lesioning of the cerebellum on myoclonic seizures in tottering mice. Am. Assoc. of Veterinary Anatomists Annual Meeting. In press.
33. **Abbott, L.C.** and D.M. Jacobowitz. 1998. Calretinin expression in the thalamic eminence of the anterior diencephalon in the developing mouse brain. Intl. Soc. of Developmental Neurobiology Annual Meeting. *International J. of Devel. Neuroscience.*
34. Kallarakal, A., C. Tohda, F.C. Lau, J. Gillespie, **L.C. Abbott**, and D.M. Jacobowitz. 1998. Identification of differentially expressed genes in Parkinson and embryo substantia nigra: Use of laser capture microdissection and the micropunch procedure. *Soc. Neurosci. Abst.* 24:1947.

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36. Mervis, R.F., T. Pindell, J. McKean, and **L.C. Abbott**. 1998. Compensatory cortical neuroplasticity in the compound heterozygous, tottering/leaner mutant mouse. *Soc. Neurosci. Abst.* 24:1203.
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39. Nahm, S.S. and **L.C. Abbott**. 1999. In situ hybridization study of calcium-binding proteins in the leaner mouse cerebellum. Am. Assoc. of Veterinary Anatomists Annual Meeting.
40. Abbott, J.L. and **L.C. Abbott**. 1999. The World Wide Web as a teaching tool: Problems and possibilities. Am. Assoc. of Veterinary Anatomists Annual Meeting.
41. **L.C. Abbott**. 1999. The Role of Abnormal Cerebellar Function in Myoclonus: Lessons for Epilepsy? Proceedings, World Veterinary Congress, 1999, Lyon, France.
42. Dove, L.S., S.S. Nahm, D. Murchison, **L.C. Abbott** and W.H. Griffith. 1999. Altered calcium homeostasis in leaner (tgla/tgla) cerebellar Purkinje cells. *Soc. Neurosci. Abst.* 25:721.
43. **L.C. Abbott** and M. Homan. 1999. Decreased NADPH diaphorase and nitric oxide synthase expression in cerebellar granule cells of adult homozygous leaner (tgla/tgla) mice. Calcium Channels - Critical Targets of Toxicants and Diseases, NIEHS Meeting, December 6-8, 1999.
44. S.S. Nahm and **L.C. Abbott**. 1999. Effects of inferior olivary input on Purkinje cell death in the calcium channel mutant mouse, leaner (tgla/tgla). FASEB. April 15-18, 2000. *FASEB Journal* 14(4):A547.
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46. S. Nahm and **L. C. Abbott**. 2000. Decreased T-type calcium channel expression in the cerebellum of P/Q-type calcium channel mutant mice. *Soc. Neurosci. Abst.* 26:861
47. T.C. Frank, R. Ramon, A. Faruki and **L.C. Abbott**. 2001. Fluoro-Jade Identification of Cerebellar Granule and Purkinje Cell Death in the Leaner Mouse. *FASEB* 15(5): A1075.
48. I.J. Rhyu, **L.C. Abbott**, S.J. Hwang, S. Oda, T. Frank, H. Kim and Y.S. Suh. 2001. Altered Expression of n-NOS in the Cerebellum of Calcium Channel Mutant Mice. *FASEB* 15(5): A2500.

49. S. Nahm, D. Tomlinson, S. Graves and **L.C. Abbott**. 2001. Western blot analysis of calretinin expression in the leaner mouse cerebellum using laser capture microdissection. *FASEB* 15(5): A937.
50. N. Inpanbutr and **L.C. Abbott**. 2001. Teaching Veterinary Anatomy: Meeting out Challenges. Am. Assoc. of Veterinary Anatomists Annual Meeting. In press.
51. I. Park, E.H. Middlekauff, **L.C. Abbott** and Y.I. Kim. 2001. Altered neuromuscular transmission by a P/Q-type calcium channel mutation in leaner mice. *Soc. Neurosci. Abst.* 27:.
52. S. Nahm and **L.C. Abbott**. 2001. Involvement of insulin-like growth factor I in cerebellar dysfunction and neurodegeneration in the calcium channel mutant mice. *Soc. Neurosci. Abst.* 27:
53. **L.C. Abbott**, S.-S. Nahm, T.C. Frank, and F.C. Lau. 2001. Molecular analysis of neurodegeneration in the leaner mouse cerebellum. International Calcium Channel & Neurologic Disorders Symposium, Seoul, Korea, September 24, 2001.
54. D.R. Zeve, M.D. Browning, T.C. Frank, L.C. Abbott Elevated CRF expression in the leaner mouse cerebellum *Soc. Neurosci. Abst.* 28:64.18; November 2-7, 2002.
55. S. Nahm, L.C. Abbott. cDNA microarray analysis of apoptotic gene expression in the leaner mouse cerebellum. *Soc. Neurosci. Abst.* 28:486.2; November 2-7, 2002.
56. T.C. Frank, Dr.R. Zeve, L.C. Abbott. Postnatal developmental expression of neuronal nitric oxide synthase in the leaner mouse cerebellum. *Soc. Neurosci. Abst.* 28:823.14; November 2-7, 2002.
57. R. Grajeda, K. Lukauskis, G. Armstrong, J. Sepulvado, B. Mueller, C. Gonzalez, **L.C. Abbott**. Analysis of spatial learning in homozygous and heterozygous tottering Mice. *Sigma Xi National Meeting*. November, 2002.
58. D.R. Zeve, T.C. Frank, L.C. Abbott. The expression of neuronal nitric oxide synthase during postnatal development in the leaner mouse cerebellum. *Sigma Xi National Meeting*. November, 2002.
59. K.A. Thuett, **L.C. Abbott**. Altered apoptotic gene expression in whole cerebella of mice exposed to methylmercury *in vivo*: a cDNA microarray analysis. *Soc. Toxicology Abstract.* 2003.
60. J.A. Etheredge, D. Murchison, **L.C. Abbott**, W.H. Griffith. Calcium channels in basal forebrain neurons from tottering/leaner mutant mice. *Soc. Neurosci. Abst.* 29:166.14; November 8-12, 2003.
61. C. Mong, Y.Q. Cao, E.S. Boyden, **L.C. Abbott**, R.W. Tsien. Properties of cortical spreading depression across visual cortex in mice with spontaneous mutations in P/Q-type Ca²⁺ channels *Soc. Neurosci. Abst.* 29:166.17; November 8-12, 2003.
62. T.M. Epps, **L.C. Abbott**, C. Snead, L. Wang. Developmental deficits at the calyx of held synapse in totterin (leaner) mice. *Soc. Neurosci. Abst.* 29:474.12; November 8-12, 2003.

63. T. C. Frank, K.L. Hamann, **L.C. Abbott**. Activation of caspase 3 in cerebellar Purkinje cells in the P/Q type calcium channel mutant mouse, leaner. *Soc. Neurosci. Abst.* 29:537.11; November 8-12, 2003.

64. N. Serpedin, T.C. Frank, K. Baker, M. Krause, G. Fosgate, **L.C. Abbott** . Abnormal reproductive function in female homozygous leaner (tg^{la}/tg^{la}) mice. *Soc. Neurosci. Abst.* 29:924.7; November 8-12, 2003.

PATENTS AND RELATED DISCOVERY ACTIVITIES

None

SERVICE ACTIVITIES:

Clinical Service:

None

Professional Organizations and Service:

American Veterinary Medical Association
American Association of Veterinary Anatomists
Society for Neuroscience
Society of Neuroscience, Texas A&M Chapter
American Association for the Advancement of Science
Fulbright Association
Phi Beta Kappa
Sigma Xi

MAJOR COMMITTEE ASSIGNMENTS:

TEXAS A&M UNIVERSITY

Texas A&M University - Department of Veterinary Anatomy and Public Health

Faculty Supervisor - VAPH Histology Service Laboratory, 1999- present
Chair- VAPH Neuroscientist Search Committee, Fall, 2002- present

Texas A&M University - College of Veterinary Medicine

President, Phi Zeta, 2002-2003
Member, Search Committee, Neurology Faculty Position in the Department of Small Animal Surgery and Medicine, 1999-2000
Member, Electronic Information Resources Committee, 1996-2003
Chairman, Faculty-Student Relations Committee, 1996-1998
Member, Faculty-Student Relations Committee, 1995-1998
Member, Academic technology Group, 1997
Member, Search Committee, Faculty Position in the Department of Veterinary Physiology and Pharmacology, 1997
Member, Media Resources Steering Committee, 1996-1997

Member, Search Committee, CVM Hospital Director, 1996

Texas A&M University - University Committees

Chair, Awards Committee, Sigma Xi - TAMU Chapter, 2001-2002

Vice President and Program Chair, Sigma Xi - TAMU Chapter, 2002-2003

President, Sigma Xi - TAMU Chapter, 2003-2004

Chair, Admissions committee, Faculty of Neuroscience, TAMU, 2001-present

Member, Curriculum committee, Faculty of Neuroscience, TAMU, 1998-present

President, TAMU Local Chapter of Society for Neuroscience, 2003-2004

Goldwater Nominee selections committee, 2000, 2001, 2002

University Scholars selection committee, 2001-2002; 2002-2003

Councilor, Texas A&M Chapter of the Society for Neuroscience, TAMU, 1995-1998

Professional Committees :

American Association of Veterinary Anatomists, Corresponding Secretary, 1993-1999

American Association of Veterinary Anatomists, Acting Corresponding Secretary, 2002

American Association of Veterinary Anatomists, President-elect, 2003- present

Texas A&M University - Other Committee Experience

Delegate, Citizen Ambassador Program, Wildlife Management and Conservation Delegation to
Nepal, April 1995

Texas A&M University - Invited Presentations, Symposia, Colloquia and Named Lectures

International Symposium, Seoul, Korea, September 26, 2001. Invited Presentation titled. "Molecular analysis of neurodegeneration in the leaner mouse cerebellum" Authors, Louise C. Abbott, Sang-Soep Nahm, Tamy Frank and Francis C. Lau; presented by L. C. Abbott.

Invited seminar at the Department of Anatomy, Medical School, Seoul University, Seoul, Korea, September 28, 2001. Titled, "Analysis of behavior in mice with calcium channel mutations." L.C. Abbott and S. Nahm. Presented by L. C. Abbott

Workshop on Animal Models of Posthypoxic Myoclonus, Chevy Chase, MD, March 20-21, 1999. Invited Presentation titled, "Investigation of the role of the cerebellum in the myoclonic-like movement disorder exhibited by tottering mice", Authors, Louise C. Abbott, Melissa Bump, Amy Brandl and Scarlett DeLaune; presented by L. C. Abbott.

Invited seminar at the Department of Veterinary and Comparative Anatomy, Physiology and Pharmacology, College of Veterinary Medicine, Washington State University, presentation titled, "The effects of calcium ion channel mutations on behavior and development in tottering and leaner mice".

UNIVERSITY OF ILLINOIS

University of Illinois - Department of Veterinary Biosciences

Chairman, Veterinary Biosciences Courses and Curriculum Committee, 1993-1994

Member, Veterinary Biosciences Courses and Curriculum Committee, 1991-1993

Member, Veterinary Biosciences Search Committee for Molecular Biology Position, 1990

University of Illinois - College of Veterinary Medicine

Member, College Laboratory Animal Care Committee, 1991-1994
Member, Library Committee, 1993-1994
Member, Committee on Instructional Strategies, 1993-1994
Member, Ad-Hoc Problem-Based Learning Committee, 1990-1993
Member, College Research Advisory Committee, 1990-1993

University of Illinois – University Committees

Member, Women in Science and Engineering (WISE) Committee, 1992-1994
Delegate, University of Illinois Delegation to the CIC Women in Science and Engineering (WISE) Conference, Indiana University, October 1-4, 1992
Member, Neuroscience Program Executive Committee, 1990-1991
Member, Neuroscience Program Grievance Committee, 1989-1990

University of Illinois - Other Committee Experience

President-Elect, Mu Chapter of Phi Zeta, 1992-1993
President, Mu Chapter of Phi Zeta, 1993

University of Illinois - Conferences, Symposia Organized/Chaired

Co-Chair, Phi Zeta Symposium Committee; "Endangered Species Survival Plan: Recognition and Conservation Biology in the 90's", 1992

Chair, Phi Zeta Symposium Committee; "Bovine Spongiform Encephalopathy and Scrapie: Pathobiology Public Health Policy", 1991

Community Service

Administrative Council Member, Twin City Mission, Bryan/College Station, TX, 1999-2002
Member of the Board of Directors, Twin City Mission, Bryan/College Station, TX, 2002
Vice President and acting President of the Board of Directors, Twin City Mission, Bryan/College Station, TX, 2003-2004