

CURRICULUM VITAE

Louise C. Abbott, Ph.D., D.V.M.

PRESENT POSITION AND ADDRESS:

Title: Associate Professor
Office: Department of Veterinary Integrative Biosciences
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Home: 3510 Spring Lane
Bryan, TX 77802
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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 Integrative Biosciences, 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
I 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
- Order of Wailaatu, 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

Finalist for the Texas A&M University Women's Faculty Network Mentor Award, 2006-2007

EDITORIAL BOARDS :

None

REVIEWER FOR SCIENTIFIC JOURNALS :

American Journal of Veterinary Research
Journal of Applied Toxicology
Journal of the American Veterinary Medical Association
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
Brain Research Reviews
Brain Research Protocols
Neuroscience
Neuroscience Letters
Neurobiology of Learning and Memory
Neurotoxicity Research
Toxicology Letters
In Vitro Toxicology
Synapse

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; February, June, October, 2004 February, June, 2005; March, June, 2006. |
| USDA National Research Initiative Competitive Grants Program, Ad Hoc reviewer - | April, 2001; April, 2003 |

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 and embryology courses and selected undergraduate biomedical courses. 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; 2005, (spring semesters)
Veterinary Integrative Biosciences 913: Veterinary Embryology (1.6 credits; 84 contact hours), Course coordinator – 2006 (spring semester)

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 and Public Health 601: Graduate Gross Anatomy (5 credits; 100 contact hours), Course coordinator, 1998 (summer session)

Veterinary Anatomy & Public Health 612: Graduate Embryology (4 credits; 75 contact hours)
Co-course coordinator - 1999 (spring semester); Course coordinator - 2003 (fall semester)
Veterinary Integrative Biosciences 602: Graduate Embryology (4 credits; 75 contact hours), Course coordinator - 2006 (spring semester)

Veterinary Anatomy & Public Health 603: Graduate Neuroanatomy (4 credits; 75 contact hours)
Co-course coordinator – 2005, 2007 (spring semesters)

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 (4 credits; 75 contact hours), Assisted with lectures and coordination of course – 1998, 2002 (spring semesters)
Co-course coordinator – 1999 (spring semester)

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

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)

Biomedical Sciences 101: Introduction to Biomedical Sciences Course Section coordinator – Section 501 (1 credit, 15 contact hours)- 2005, 2006 (fall semesters)

Veterinary Anatomy and Public Health 485: Research projects - working in the Abbott laboratory

Spring 1995 - 1 undergraduate student
Fall 1995 - 1 undergraduate student
Spring 1996 - 1 undergraduate student
Fall 1996 - 1 undergraduate student
Spring 1998 - 2 undergraduate students
Fall 1998 - 2 undergraduate students
Spring 2000 - 2 undergraduate students
Fall 2000 - 1 undergraduate student
Spring 2001 - 1 undergraduate student
Fall 2001 - 2 undergraduate students
Spring 2003 - 3 undergraduate students
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
Summer 2004 - 1 undergraduate student
Fall 2004 - 4 undergraduate students
Spring 2005 - 3 undergraduate students
Summer 2005 - 1 undergraduate student
Fall 2005 - 4 undergraduate students and three volunteer undergraduate students
Spring 2006 - 2 undergraduate students and one volunteer undergraduate student
Summer 2006 - 1 undergraduate student
Fall 2006 - 3 undergraduate students and three volunteer undergraduate students
Spring 2007 - 2 undergraduate students and two volunteer undergraduate students
Summer 2007 - 1 undergraduate student

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 |
|-----------------------------------|---------------|--------------------------------------|------------------------------------|-------------------------------------|
| Tiffany Rodriguez | PhD | TAMU-Health & Kines. | Committee member | current |
| Han | MS | TAMU-Compute Sci. | Committee member | current |
| Emily Roltsch | MS | TAMU- VIBS | Committee member | current |
| Bryan Krock | PhD | TAMU – Biology | Committee member | current |
| Tony Kreipe | PhD | TAMU – Biology | Committee member | current |
| Dr. Pei-San Huang | PhD | TAMU – VIBS | Major Professor | current |
| Jarrett Richardson | PhD | TAMU - Biology | Committee member | current |
| Dr. Fikru Nigussie | PhD | TAMU – VIBS | Committee member | current |
| Gina Lungu | MS | TAMU - Vet. Pathobiol. | Committee member | current |
| David Mayerich | PhD | TAMU - Computer Sci. | Committee member | current |
| Jong-hyun Son | PhD | TAMUS-HSC – Pharm. and Toxicology | Committee member | current |
| Kerry Thuett | PhD | TAMU – Toxicology | Major Professor | current |
| Dr. Bhupinder Bawa | PhD | TAMU - VIBS | Major Professor | current |
| Dr. Gayathri Chadalapaka | PhD | TAMU – VIBS | Major Professor | dropped program |
| Sarah Black | PhD | TAMU - Animal Science | Committee member | changed project and committee |
| Wonrull Koh | PhD | TAMU – Computer Sci. | Committee member | December, 2006 |
| Hari Shankar Muddana | MS | TAMU – Computer Sci. | Committee member | August, 2006 |
| Amy Sieve | PhD | TAMU - Psychology | Committee member | changed committee |
| Margaret Rast | MS | TAMU - Vet. Pathobiol. | Committee member | August, 2006 |
| Sarah Wills | MS | TAMU – VIBS | Major Professor | August, 2006 |
| Hanan Elsayed Abdou | PhD | TAMU - Chemistry | Committee member | May, 2006 |
| Dr. Sairam Bellum | PhD | TAMU – Toxicology | Major Professor | December, 2005 |
| Dr. Tamy Frank-Cannon | PhD | TAMU – VIBS | Major Professor | December, 2005 |
| Jason Etheridge | PhD | TAMUS-HSC – Pharm. and Toxicology | Committee member | December, 2005 |
| Dr. Xiuhong Liu | PhD | TAMU - VIBS | Committee member | December, 2005 |
| Dr. Edgar Hernando Riano Rocha | MS | TAMU- Animal Science | Committee member | May, 2005 |
| Jimi Lynn Brandon | MS | TAMU - Vet. Pathobiol. | Committee member | May, 2005 |
| Dr. Nesrin Serpedin | MS | TAMU – VIBS | Major Professor | December, 2003 |
| Dr. Sang-Soep Nahm | PhD | TAMU - VIBS | Major Professor | August, 2002 |
| Paulette Waters | MS | TAMU – Vet. Pathobiol. | 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 - Vet. Pathobiol. | Committee member | dropped |

| Name | Degree | Institution | Advisor or committee member | Date of completion |
|-----------------------------|--------|--------------------------------------|-----------------------------|-----------------------|
| 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 |
| L. Scott Dove | PhD | TAMUS-HSC – Pharm. and Toxicology | Committee member | December, 1999 |
| 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 |
| Francis C. Lau | PhD | TAMU - VAPH | Major Professor | May, 1999 |
| Eric Taylor | PhD | TAMU - Forestry | Graduate Faculty Rep | August, 1998 |
| 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 |

program

Graduate Student Dissertation /Thesis titles

- Sarah Wills** - Neurogenesis in the Dentate Gyrus of Age-Matched Calcium Ion Channel Mutant Mice, Leaner and Tottering. M.S. Thesis, Texas A&M University, College Station, Texas, 2006.
- Tamy Frank-Cannon** – Cerebellar Purkinje cell death in the P/Q-type voltage gated calcium ion channel mutant mouse, leaner. Ph.D. Dissertation, Texas A&M University, College Station, Texas, 2005.
- Sairam Bellum** – Neurotoxic mechanisms of methylmercury: Cellular and behavior changes. Ph.D. Dissertation, Texas A&M University, College Station, Texas, 2005.
- Nesrin Serpedin** - Abnormal reproductive function in female homozygous leaner mice. M.S. Thesis, Texas A&M University, College Station, Texas, 2004.
- Sang-Soep Nahm** - Analysis of gene and protein expression related to cerebellar neurodegeneration in the calcium channel mutant mouse, *leaner*. Ph.D. Dissertation, Texas A&M University, College Station, Texas, 2002.
- Francis C. Lau** - Apoptosis, reduced intracellular free calcium level and altered gene expression in the cerebellum of the leaner mutant mouse. Ph.D. Dissertation, Texas A&M University, College Station, Texas, 1999.
- Dana B. Walker** - Quantitative light and electron microscopic study of cerebellar granule cells and parallel fiber varicosities in adult tottering (*tg/tg*), leaner (*tg^{la}/tg^{la}*) and compound heterozygous (*tg/tg^{la}*) mice. M.S. Thesis, Texas A&M University, College Station, Texas, 1998.

Krystyna R. Isaacs - An investigation into morphological and biochemical abnormalities in the central nervous system of the mutant mouse, tottering. PhD. Dissertation, University of Illinois at Urbana-Champaign, Champaign, Illinois, 1993.

Awards – Graduate Students (Texas A&M University)

Bhupinder Bawa

- 2007, 1st Place, TAMU Student Research Week, Graduate Student Research Award, Life Sciences
- 2007, Fisher Institute Medical Research Award, Fisher Institute
- 2006, 3rd Place, American Association of Veterinary Anatomists, Graduate Student Competition, Oral Presentation, Annual Meeting, June, 2006.
- 2006, 1st Place, TAMU Student Research Week, Graduate Student Research Award, Physical Sciences
- 2006, 1st Place, Graduate student poster competition, College of Veterinary Medicine, Texas A&M University, April 2006.

Kerry Thuett

- 2006, 2nd Place, TAMU Student Research Week, Graduate Student Research Award, Biological Sciences
- 2005, George Bush Presidential Library Foundation Grant, Texas A&M University
- 2003, 1st Place, TAMU Student Research Week, Graduate Student Research Award, Biological Sciences
- 2002 - 2007, NIH Toxicology Training Grant Fellowship

Sairam Bellum

- 2004, 1st Place, student poster presentations at Toxicology Graduate Student Symposium, TAMU, August 2004.
- 2004, 1st Place, Graduate student poster competition, College of Veterinary Medicine, Texas A&M University, April 2004.
- 2003, 2nd Place, American Association of Veterinary Anatomists / World Association of Veterinary Anatomists, Graduate Student Competition, Poster Presentation, Annual Meeting, August, 2003.

Tamy Frank-Cannon

- 2005, Fisher Institute Medical Research Award, Fisher Institute
- 2005, Ethel Ashworth-Tsutsui Memorial Award for Research
- 2003, 1st Place, American Association of Veterinary Anatomists / World Association of Veterinary Anatomists, Graduate Student Competition, Oral Presentation, Annual Meeting, August, 2003.
- 2003, Fisher Institute Medical Research Award, Fisher Institute
- 2002, 1st Place, Cajal Club Nissl Body's Graduate Student Poster Presentation Award
- 2001, 1st Place, TAMU Student Research Week, Graduate Student Research Award, Biological Sciences, Division II
- 2001-2002, College of Veterinary Medicine Graduate Student Fellowship

Sang-Soep Nahm

- 2003, President's Outstanding Research Award, Association of Korean Neuroscientists
- 2002, Fisher Institute Medical Research Award, Fisher Institute
- 2002, George Bush Presidential Library Foundation Grant, Texas A&M University

Sang-Soep Nahm (Awards, continued)

- 2001, Travel Award, "Laser Capture Microdissection and Macromolecular Analysis of Normal Development and Pathology", NIH
- 2000, Study grant, International Student Services, Texas A&M University
- 2000, 1st Place, Graduate student poster competition, Texas A&M University
- 1997, Regent Fellowship, Texas A&M University

Awards – Undergraduate Students (Texas A&M University)

Jessica Mackey

- 2006, 2nd Place, TAMU Student Research Week, Undergraduate Student Research Award, Life Sciences, April 2006.
- 2006, International Education Week Choice Award Winner, TAMU Student Research Week, Undergraduate Student Research Award, April 2006.
- 2006, Lonestar Graduate Diversity Colloquium Choice Award Winner, TAMU Student Research Week, Undergraduate Student Research Award, April 2006

Nirma Bustamante

- 2006, 3rd Place, Undergraduate student poster competition, College of Veterinary Medicine, Texas A&M University, Life Sciences, April 2006.
- 2006, Interdisciplinary Research Recognition Award Winner TAMU Student Research Week, Undergraduate Student Research Award, April 2006

Raul Grajeda, Jr.

- 2002, 3rd Place, Poster presentation Biology Division. *Sigma Xi National Meeting*. November, 2002.

Daniel Zeve

- 2002, 1st Place, Poster presentation Biomedical Sciences Division. *Sigma Xi National Meeting*. November, 2002.

Texas A&M University Residents/Interns/Postdoctoral Fellows

| | | | |
|-----------------|---------------------|---------|-----------|
| Dr. Im Joo Rhyu | Postdoctoral Fellow | | |
| | TAMU - VIBS | Advisor | 1996-1997 |

Texas A&M University Predoctoral Fellows and Advisees

Advisor, Undergraduate Honors Research Program, Nirma Bustamante, 2005-2006
Advisor, University Undergraduate Research Fellows Program, Jessica MacKey, 2005-2006
Advisor, University Undergraduate Research Fellows Program, Daniel Zeve, 2002-2003
Advisor, University Undergraduate Research Fellows Program, Kris Lukauskis, 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.

Texas A&M University Predoctoral Fellows and Advisees (continued)

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 | Dec, 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 | Dec, 1993 |
| Heiko Jansen | PhD | UIUC - Vet. Biosci. | committee member | Dec, 1993 |
| Sigmund Degitz | PhD | UIUC - Vet. Biosci. | committee member | (1993-1994) |

University of Illinois 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.

University of Illinois Predoctoral Fellows:

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)

TEACHING/SCHOLARLY ACTIVITIES:

| DATE | Description |
|----------------------------|---|
| June 1998 | Teaching Portfolio Workshop TAMU - Center for Teaching Excellence |
| June 23 & 24, 2005 | Aiming High: Using Models of Good Writing to Spur Students to Excellence TAMU Sponsored Workshop |
| Fall 2006 – Spring 2007 | Peer Review Project – How to teach more effectively TAMU – Center for Teaching Excellence |

RESEARCH/SCHOLARLY ACTIVITIES:

| DATE | Current Research Support | AMOUNT |
|---------------|---|---------------|
| 12/02 - 11/07 | NIH-GM Interaction of MHV RNA with mtHSP70 and m-aconitase Dr. Julian Leibowitz - 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 |
| 09/05 – 07/08 | R01-NS54252-01 NIH - NINDS MSM: Multiscale imaging, analysis, and integration of brain networks Yoonsuck Choe - PI; Louise C. Abbott (Co-Investigator) | \$ 881,385 |

Pending Research Grants Applications

| | | |
|-------------|--|------------|
| 04/07-03/09 | Center for Alternatives to Animal Testing – Johns Hopkins University Zebrafish as a model organism for neurotoxicity testing of simultaneous multiple contaminant exposures | \$ 100,000 |
| 04/07-03/10 | Dana Foundation Three-dimensional spatial relationship of amyloid deposition, | |

cholinergic neuron loss and pathologic cerebral micro-vasculature in Alzheimer's Disease analyzed at the cellular and molecular level. \$ 300,000

Past Research Support

Texas A&M University

| DATE | | AMOUNT |
|---------------|--|---------------|
| 05/05 – 07/06 | Office of the Vice President for Research, TAMU Effects of prenatal methylmercury exposure on brain development | \$ 8,000 |
| 06/03 - 05/05 | NIEHS/ CERH Pilot Project Effects of Methylmercury on Mitochondrial Function | \$ 25,000 |
| 5/02-4/03 | VAPH Bridging funds to Dr. L. C. Abbott | \$ 20,000 |
| 5/98-4/03 | NIH-NIAAA 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 |
| 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 |
|-----------|--|--------|

Texas A&M University (continued)

| DATE | | AMOUNT |
|-------------|---|---------------|
| 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 |
|-------------|---|---------|

University of Illinois (continued)

| DATE | | AMOUNT |
|-------------|---|---------------|
| 7/90-4/92 | Illinois Heart Association, N-13-IWA - Co-Investigator | 19,882 |
| 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

| DATE | | AMOUNT |
|-------------|---|---------------|
| 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**. 1995. 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 calretinin-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. Bull.* 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.
40. 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. Ramon, 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. Nahm, S.-S. and **L.C. Abbott**. 2004. Neuronal nitric oxide synthase expression in cerebellar mutant mice. *The Cerebellum*, 3(3): 141-151.
44. Lau, F.C., T.C. Frank, S.S. Nahm, G. Stoica and **L.C. Abbott**. 2004. Postnatal apoptosis in cerebellar granule cells of homozygous *leaner* (tg^{la}/tg^{la}) mice. *Neurotoxicity Research*. 6(4):267-280.
45. Nahm, S.-S., K.-Y. Jung, M.K. Enger, W.H. Griffith, **L.C. Abbott**. 2005. Differential expression of T-type calcium channels in P/Q-type calcium channel mutant mice with ataxia and absence epilepsy. *Journal of Neurobiology*. 62(3):352-60.
46. McCormick, B.H., D.M. Mayerich, B.L. Busse, Z. Melek, W. Koh, **L.C. Abbott**, Y. Choe J. Keyser, E.-J. Kim. 2005. The whole mouse brain: The spatial distribution and morphology of its neurons. *Microsc. Microanal* 11(Suppl2):640-641.
47. McCormick, B.H., B.L. Busse, D.M. Mayerich, **L.C. Abbott**, Y. Choe J. Keyser, S.J. Smith, W. Denk. 2005. Biologically accurate modeling of mouse brain requires biologically accurate networks. *Microsc. Microanal* 11(Suppl2):66-67.
48. Frank-Cannon, T.C, D.R. Zeve and **L.C. Abbott**. 2007. Developmental expression of neuronal nitric oxide synthase in P/Q-type voltage-gated calcium ion channel mutant mice, *leaner* and *tottering*. *Brain Research*. 1140:96-104.
49. Etheredge, J.A., D. Murchison, **L.C. Abbott** and W.H. Griffith. 2007. Functional compensation by other voltage gated Ca^{2+} channels in mouse basal forebrain neurons with $Ca_v2.1$ mutations. *Brain Research*. 1140:105-119.
50. Bellum, S., K. Thuett, R. Taylor and **L.C. Abbott**. 2007. Assessment of tissue concentrations of mercury in mouse brain tissue using different routes of administration of methylmercury and different tissue preparations. *Toxicology Mechanisms and Methods*. **In Press**.
51. Sairam Bellum, Kerry A. Thuett, Raul Grajeda and **Louise C. Abbott**. 2007. Coordination Deficits Induced in Young Adult Mice Treated with Methylmercury, *International Journal of Toxicology*. **Accepted**.
52. G. Stoica, G. Lungu, X. Xie, **L. C. Abbott**, and J. T. Jaques. 2007. Inherited tertiary hypothyroidism in Sprague-Dawley rats, *Brain Research*. **Accepted**.

53. Luping Huang, **Louise C. Abbott** and Ursula Winzer-Serhan. 2007. Effects of chronic neonatal nicotine exposure on nAChR binding, cell death and morphology in hippocampus and Cerebellum Neuroscience. **Accepted.**

54. Bellum, S., B. Bawa, K.A. Thuett, G. Stoica and **L.C. Abbott**. 2007. Changes in Biochemical Processes in Cerebellar Granule Cells of Mice Exposed To Methylmercury, International Journal of Toxicology. **Accepted.**

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.

Refereed Proceedings / Monographs / Abstracts:

1. **Abbott, L.C.**, G. Schubiger, and G. Karpen. 1980. Clonal analysis of regeneration and duplication in Drosophila imaginal leg disc fragments. *Am. Zoologist*. 20:740.

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.
10. Bowker, R.M., **L.C. Abbott**, and V.K. Reddy. 1986. Somatostatinergic and serotonergic neurons of the medullary raphe nuclei and their potential interactions. *Anat. Rec.* 214:14A.
11. **Abbott, L.C.** and B. Weber. 1987. A comparison of norepinephrine, serotonin, and dopamine levels in different ages and CNS regions of wild type and genetically epileptic mice. *Anat. Rec.* 218:5A.
12. **Abbott, L.C.**, B. Weber, and R.M. Bowker. 1987. A comparison of dopamine, and norepinephrine levels in several spinal cord regions in the fetal, juvenile, and adult guinea pig (*Cavia porcellus*). *Soc. Neurosci. Abstr.* 13:1644.
13. **Abbott, L.C.**, R.H. Abhold, and B. Weber. 1988. Central nervous system norepinephrine, dopamine, serotonin, and met-enkephalin levels in tottering mice: A genetic animal model of human petit mal epilepsy. *J. of Veterinary Medicine Series C.* 17:360.
14. **Abbott, L.C.**, B. Weber, and R.H. Abhold. 1988. Norepinephrine and met-enkephalin concentrations in specific brainstem and spinal cord regions of the genetically epileptic, tottering (*tg/tg*) mouse. *Soc. Neurosci. Abstr.* 14:830.
15. Isaacs, K. and **L.C. Abbott**. 1990. A quantitative comparison of the lateral cerebellum between normal and genetically epileptic mice (*tg/tg* and *tg/la*). *Soc. Neurosci. Abstr.* 16:782.
16. Austin, M.C., **L.C. Abbott**, P. Montpied, J. Evers, S.M. Paul, J.N. Crawley, and M. Schultzberg. 1990. Appearance of tyrosine hydroxylase-like immunoreactivity and tyrosine hydroxylase mRNA in cerebellar Purkinje cells of the mutant tottering and leaner mouse. *Soc. Neurosci. Abstr.* 16:1293.
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.
19. Bell, B.T.L., G.J. Baker, and **L.C. Abbott**. 1991. Vascular anatomy of the ethmoid area of the normal horse: Corrosion cast investigation. *Veterinary Surgery Abstr.* 20(5):330.
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. Abstr.*, 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. Abstr.* 22:1650.
27. Burazin, T.C.D., M.C. Ryan, **L.C. Abbott** and A.L. Gundlach. 1996. Galanin mRNA in the olivocerebellar system of rat and mouse: Species differences and studies in mutant tottering and leaner mice. *Aust. Soc. For Neurosci. Soc.* 8:121.
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. Abstr.* 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. Abstr.* 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. Abstr.* 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.
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. Abstr.* 24:1947.
35. **Abbott, L.C.**, J. McKean, T. Pindell, and R.F. Mervis. 1998. Quantitative analysis of Golgi-

stained Purkinje cells in compound heterozygous, tottering/leaner (*tg/tg^{la}*) mice. *Soc. Neurosci. Abst.* 24:1515.

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.

37. Dove, L.S., **L.C. Abbott** and W.H. Griffith. 1998. Analysis of single calcium channels in cerebellar Purkinje cells of leaner mutant mice. *Soc. Neurosci. Abst.* 24:1327.

38. **Abbott, L.C.**, J. McKean, T. Pindell, and R.F. Mervis. 1999. Analysis of selected Golgi-stained brain regions of tottering, leaner and compound heterozygous, tottering/leaner mice. Am. Assoc. of Veterinary Anatomists Annual Meeting.

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.

45. **L.C. Abbott** and D.R. Donoho. 1999. Stimulation of climbing fibers using harmaline reduces myoclonic-like seizures in homozygous tottering (*tg/tg*) mice. FASEB. April 15-18, 2000. *FASEB Journal* 14(4):A547.

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.
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 and **L.C. Abbott**. Elevated CRF expression in the leaner mouse cerebellum *Soc. Neurosci. Abst.* 28:64.18; November 2-7, 2002.
55. S. Nahm and **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, D. Zeve and **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 and **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 and **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 and **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** and 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** and 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 and L. Wang. Developmental deficits at the calyx of held synapse in tottering (leaner) mice. *Soc. Neurosci. Abst.* 29:474.12; November 8-12, 2003.

63. T. C. Frank, K.L. Hamann and **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 and **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.
65. S. Bellum, K.A. Thuett and **L.C. Abbott**. Comparison of Mitochondrial Membrane Potential in Acutely Isolated Cerebellar granule Cells from Wild type and Homozygous Leaner Mutant Mice. Joint meeting of American Association of Veterinary Anatomists and World Association of Veterinary Anatomists, Knoxville, TN, July 31- Aug 2, 2003.
66. K.A. Thuett and **L.C. Abbott**. Altered apoptotic gene expression in whole cerebella of mice exposed to methylmercury in vivo: A cDNA microarray analysis. *Toxicological Sciences* 72(S1), 68, 2003.
67. K.A. Thuett, S. Bellum, **L.C. Abbott**. Mitochondrial membrane potential in cerebellar granule cells of calcium channel mutant leaner mice under various conditions. Abstract #1141. *The Toxicologist CD – An official Journal of the Society of Toxicology*, 78(S1), 2004.
68. S. Bellum, K.A. Thuett, **L.C. Abbott**. Neurobehavioral and mitochondrial membrane potential changes in cerebellar granule cells of mice exposed to methylmercury. Abstract #1127. *The Toxicologist CD – An official Journal of the Society of Toxicology*, 78(S1), 2004.
69. J.A. Etheredge, D. Murchison. **L.C. Abbott** and W.H. Griffith WH. Functional changes in the calcium currents of basal forebrain neurons from tottering/leaner mice: L-type currents and G-protein modulation. *Soc. Neurosci. Abst.* No. 848.1, November, 2004.
70. B.H. McCormick, D.M. Mayerich, **L.C. Abbott**, R. Gutierrez-Osuna, J. Keyser, Y. Choe, W. Koh, and B.L. Busse. Whole mouse brain mapped at submicron resolution using Knife-Edge Scanning Microscope. *Soc. Neurosci. Abst* No. 1033.4, November, 2004.
71. B.H. McCormick, Y. Choe, W. Koh, **L.C. Abbott**, J. Keyser, Z. Melek, P. Doddapaneni, and D. Mayerich. Construction of anatomically correct models of mouse brain networks. *Neurocomputing*, 58-60:379-386, 2004.
72. D.M. Mayerich, B.L. Busse, **L.C. Abbott**, and B.H. McCormick. Spatial Distribution and Morphology of Mouse Neurons. Presented at World Association of Modelers: The First Annual Biologically Accurate Modeling Meeting and Second GENESIS Users' Meeting, 2005.
73. B.L. Busse, D.M. Mayerich, **L.C. Abbott**, and B.H. McCormick. Biologically Accurate Modeling of Mouse Brain Requires Biologically Accurate Networks. Presented at World Association of Modelers: The First Annual Biologically Accurate Modeling Meeting and Second GENESIS Users' Meeting, 2005.
74. T.C. Frank-Cannon and **L.C. Abbott**. Activation of caspase 3 in dying cerebellar Purkinje cells

of the calcium channel mutant, leaner. *The FASEB Journal*. Abstract No. 488.14, 2005.

75. S. Bellum, K.A. Thuett, and **L.C. Abbott**. Formation of reactive oxygen species in cerebellar granule cells of mice exposed to methylmercury. Abstract # 619. *The Toxicologist CD – An official Journal of the Society of Toxicology*, 79(S1). 2005.

76. K.A. Thuett, S. Bellum and **L.C. Abbott**. Differential gene expression at two doses of methylmercury in mouse cerebella as analyzed by apoptosis-specific microarray. Abstract # 618. *The Toxicologist CD – An official Journal of the Society of Toxicology*, 79(S1). 2005.

77. T.C. Frank-Cannon, D.R. Zeve and **L.C. Abbott**. Neuronal nitric oxide synthase expression in the developing cerebella of P/Q - type voltage - gated calcium ion channel mutant mice, leaner and tottering. *Soc. Neurosci. Abst.* 31:602.15, November 12-16, 2005.

78. U.H. Winzer-Serhan, L.Z. Huang and **L.C. Abbott**. Neonatal chronic nicotine exposure does not increase neuronal death but transiently upregulates epibatidine binding in rat hippocampus. *Soc. Neurosci. Abst.* 31:684.2, November 12-16, 2005.

79. S. Bellum, K.A. Thuett and **L.C. Abbott**. Decrease in mitochondrial membrane potential and formation of reactive oxygen species in cerebellar granule cells and associated behavior changes in aged mice exposed to methylmercury. *Soc. Neurosci. Abst.* 31:785.4, November 12-16, 2005.

80. K.A. Thuett, C. Cummings; **L.C. Abbott** and E. Tiffany-Castiglioni. Mitochondrial membrane potential in SY5Y neuroblastoma cells exposed to mercury. *Soc. Neurosci. Abst.* 31:785.5, November 12-16, 2005.

81. J.A. Etheredge, D. Murchison, **L.C. Abbott** and W.H. Griffith. Plasticity of nifedipine - sensitive calcium currents represents a common mechanism in aged and tottering mouse basal forebrain neurons. *Soc. Neurosci. Abst.* 31:35.2, November 12-16, 2005.

82. S.E. Wills, J.M. MacKey, M.A. Hughes and **L.C. Abbott**. Hippocampal cell proliferation is reduced in adult homozygous leaner mice compared to age - matched wild - type mice *Soc. Neurosci. Abst.* 31:431.1. November 12-16, 2005.

83. B. Bawa and **L.C. Abbott**. Assessment of mitochondrial membrane potential and basal intracellular calcium levels in cerebellar granule cells of leaner mice. *Soc. Neurosci. Abst.* 31:1013.9, November 12-16, 2005.

84. K. A. Thuett, S. Ginestra, **L. C. Abbott**, J. M. MacKey. Behavioral and molecular assessment of mice exposed to low dose methylmercury in utero. *Soc. Neurosci. Abst.* 32:184.21, 2006.

85. Bawa, B. and **L. C. Abbott**. Altered calcium homeostasis in cerebellar granule cells of leaner mice during postnatal development. *Soc. Neurosci. Abst.* 32:295.18, 2006.

86. Wills, S.E. and **L.C. Abbott**. Hippocampal cell proliferation is increased in 6-wk-old homozygous leaner mice compared to age-matched wild type mice. *Soc. Neurosci. Abst.* 32:419.7, 2006.

87. D. M. Mayerich, **L. C. Abbott**, B. H. McCormick. Imaging and reconstruction of mouse brain vasculature and neighboring cells using knife-edge scanning microscopy. *Soc. Neurosci. Abst.* 32:694.4, 2006.

88. McCormick, B.H., **L. C. Abbott**, D. Mayerich, J. Keyser, J. Kwon, Z. Melek and Y. Choe. Full-scale submicron neuroanatomy of the mouse brain. *Soc. Neurosci. Abst.* 32:694.5, 2006.

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 Local Chapter
Society of Toxicology
Neurotoxicity Society
Cajal Club
Fulbright Association
Phi Beta Kappa
Sigma Xi

MAJOR COMMITTEE ASSIGNMENTS:

TEXAS A&M UNIVERSITY

Texas A&M University - Department of Veterinary Integrative Biosciences

Faculty Supervisor - VIBS Histology Service Laboratory, 1999 - present
Chair - VAPH Neuroscientist Search Committee, 2002 - 2004
Member VIBS Neuroscientist Search Committee, 2004 - 2006

Texas A&M University - College of Veterinary Medicine

Member, CVM Communications Advisory Team, 2007-present
Chair, CVM Neuroscience Teaching Task Force, 2006-present
Chair, supervisory committee for the Plum Endowed Scholarship in Veterinary Medicine, 2005-present
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

Texas A&M University - College of Veterinary Medicine (cont.)

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

Member, TAMU Faculty Senate, 2006-present

CVM Caucus Leader, 2007-present

Member, TAMU Honor Council, 2006-present

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, 2001-2004

Member, Curriculum committee, Faculty of Neuroscience, TAMU, 1998-2005

Chair, Curriculum committee, Faculty of Neuroscience, TAMU, 2004-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

National 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, 2003-2004

American Association of Veterinary Anatomists, President, 2004-2006

Neurotoxicology Specialty Section, Society of Toxicology, Nominating Committee member, 2005

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

University of Texas, Southwestern Medical School, August 17, 2005. Invited presentation titled, "Life and death of cerebellar granule cells in calcium channel mutant mice", presented by Louise C. Abbott.

Invited seminar for the Toxicology Seminar Series, Texas A&M University, College Station, TX, April 8, 2002. Presentation titled, "Analysis of neurodegeneration in the leaner mouse cerebellum", presented by Louise C. Abbott.

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.

Texas A&M University - Invited Presentations, Symposia, Colloquia and Named Lectures (cont.)

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, April, 1999. Presentation titled, "The effects of calcium ion channel mutations on behavior and development in tottering and leaner mice".

UNIVERSITY OF ILLINOIS – MAJOR COMMITTEE ASSIGNMENTS:

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

Christian Prison Ministry – Federal Women’s Prison, Bryan, TX, 1997-1999

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

President of the Board of Directors, Twin City Mission, Bryan/College Station, TX, 2004-2005

Member of the Board of Directors, Twin City Mission, Bryan/College Station, TX, 2005-2006

Once a month delivery of meals to disabled elderly in Washington County, TX (SHAPE). 2005-2006