

CURRICULUM VITAE

Mark S. Luer, Pharm.D., FCCP
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I. GENERAL INFORMATION:

Business Address: Southern Illinois University Edwardsville
School of Pharmacy
Department of Pharmacy Practice
Campus Box 2000
Edwardsville, IL 62026-2000
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II. EDUCATION AND TRAINING:

1992 - 1993 Neuroscience Fellowship
University of Kentucky Medical Center
Lexington, Kentucky

1991 - 1992 Critical Care Pharmacy Resident
University of Kentucky Medical Center
Lexington, Kentucky

1990 - 1991 Clinical Pharmacy Resident
University of Kentucky Medical Center
Lexington, Kentucky

1988 - 1990 Doctor of Pharmacy
St. Louis College of Pharmacy
St. Louis, Missouri

1984 - 1989 Bachelor of Science in Pharmacy
St. Louis College of Pharmacy
St. Louis, Missouri

III. PROFESSIONAL EXPERIENCE:

2004 - present Department Chair & Professor with Tenure
Department of Pharmacy Practice
School of Pharmacy
Southern Illinois University Edwardsville

2000 - 2004 Associate Professor with Tenure
Department of Pharmacy Practice
College of Pharmacy
University of Arkansas for Medical Sciences

1996 - 2004 Pharmacotherapist, Neurosurgery
Department of Pharmacy
University Hospital
University of Arkansas for Medical Sciences

1996 - 2000	Assistant Professor Department of Pharmacy Practice College of Pharmacy University of Arkansas for Medical Sciences
1993 - 1996	Assistant Professor Department of Pharmacy Practice College of Pharmacy University of Illinois at Chicago
1993 - 1996	Pharmacotherapist, Neurology/Neurosurgery Department of Pharmacy, University of Illinois Hospital & Clinics
1990 - 1993	Staff Pharmacist University of Kentucky Medical Center, Lexington, Kentucky
1989 - 1990	Staff Pharmacist St. Joseph Hospital, Kirkwood, Missouri
1985 - 1989	Pharmacy Intern St. Joseph Hospital, Kirkwood, Missouri

IV. SPECIALTY TRAINING:

2002	MCA Occlusion in Mice & Rats; Medical College of Georgia, Augusta, Georgia
1997	Grantsmanship Training Program; The Grantsmanship Center, Little Rock, Arkansas
1997	Fundamentals of HPLC/LC-10A Series; Shimadzu, Columbia, Maryland
1995	Introductory Course on High Performance Liquid Chromatography; Chicago Chromatography Discussion Group, Chicago, Illinois
1994	Microdialysis School; ESA, Boston, Massachusetts
1994	Microdialysis School; BAS, West Lafayette, Indiana

V. TEACHING EXPERIENCE:

GRADUATE

The University of Arkansas for Medical Sciences, College of Pharmacy Master of Science in Pharmaceutical Sciences Curriculum

1997 - 2001	PHSC 5053 Methods in Pharmaceutical Sciences
1997 - 1999	Master of Science Committee member for Ge Yun, M.S. Thesis: Neonatal Ethanol-Induced Alterations of Neurotrophin Receptor mRNA in Rat Cerebellum
1996 - 1998	Master of Science Committee member for Hong Wang, M.S. Thesis: Androgen-Induced Cardiomyocyte Hypertrophy

RESEARCH ADVISOR

Post-Graduate

2000 - 2002	Neuropharmacology Fellowship Preceptor, UAMS College of Pharmacy Kathryn Neill, Pharm.D., Fellow
1999 - 2000	American College of Clinical Pharmacy CNS Mini-Sabbatical Preceptor Denise Rhoney, Pharm.D., Assistant Professor Wayne State University College of Pharmacy

Under-Graduate

- 2001 "ACRC Partners in Research" student research program
Courtney Houston (Pharm.D. Student)
Co-Advisors: Paul O. Gubbins, Pharm.D., Russell B. Melchert, Ph.D.
- 1999 "ACRC Partners in Research" student research program
Maggie Williams-Miller (Pharm.D. Student)
Co-Advisor: Russell B. Melchert, Ph.D.
- 1999 Voldeng Research Fellowship
Nuria Fecher (Pharm.D. Student)
- 1998 Pharmaceutical Research and Manufacturers of America (PhRMA)
Undergraduate Research Fellowship in Pharmaceutics
Kathryn Neill (Pharm.D. Student)
Co-Advisor: Bill J. Gurley, Ph.D.

DIDACTIC

Southern Illinois University Edwardsville, School of Pharmacy

- 2008 - present PHEP 746 Pharmacy Rounds II (course co-coordinator)
- 2008 - present PHPT 743 Integrated Pharmacotherapeutics: Eyes/Ears/Derm (course co-coordinator)
- 2008 - present PHPT 741 Integrated Pharmacotherapeutics: Hematology/Oncology (course co-coordinator)
- 2006 - present PHPR 721 Clinical Pharmacokinetics (course coordinator)
- 2006 - 2007 PHPT 726 Integrated Pharmacotherapeutics: Endocrine/Metabolic/Nutrition
- 2005 - present PHPR 706 Pharmacy Practice I (course coordinator)
- 2005 - 2006 PHPR 707 Pharmacy Practice II

The University of Arkansas for Medical Sciences, College of Pharmacy

- 2003 - 2004 PhPr 5272 Applied Pharmacokinetics (course coordinator)
- 2002 - 2003 PhSci 5122 Drug Interactions
- 2002 - 2004 PhPr 3432 Introduction to Pharmacy
- 2001 - 2004 PhPr 5645 Pharmacotherapeutics III (course coordinator 2001 - 2004)
- 1999 - 2000 PhSci 4464 Pharmacokinetics/Biopharmaceutics II
- 1997 - 2001 PhPr 5342 Geriatric Pharmacotherapeutics
- 1997 - 2001 PhPr 5646 Pharmacotherapeutics II
- 1997 - 2000 PhPr 5654 Pharmacy Practice II, Physical Assessment

The University of Central Arkansas, College of Nursing

- 1997 NURS 6325 Pharmacotherapeutics for Advanced Nursing

The University of Illinois at Chicago, College of Pharmacy

- 1994 - 1996 PMPR 342 Pharmacotherapeutics III (course coordinator 1994 - 1996)
- 1995 - 1996 PMPR 370 Pharmacy Grand Rounds
- 1995 - 1996 PMPR 440 Clinical Pharmacokinetics

The University of Illinois at Chicago, College of Nursing

- 1995 - 1996 NUMS 569 Pharmacotherapeutics in Critical Care Nursing
- 1995 - 1996 NUSC 531 Pharmacotherapeutics in Advanced Nursing Practice

The University of Kentucky, College of Pharmacy

- 1991 PHR 866 Applied Therapeutics I
- 1992 - 1993 PHR 868 Applied Therapeutics II

CLERKSHIP/EXPERIENTIAL ROTATIONS

Southern Illinois University Edwardsville, School of Pharmacy

2005 - 2006 PHEP 714 Introductory Pharmacy Practice Experiences I: Professional Role Observations (PROs)
2005 - 2006 PHEP 715 Service Learning

The University of Arkansas for Medical Sciences, College of Pharmacy

1999 - 2004 PhPr 6694 Clerkship Elective, Research Rotation
1997 - 2004 PhPr 6614 Adult Medicine Clerkship, Neurosurgery Rotation
1997 - 2004 PhPr 6613 Adult Medicine Clerkship, Neurosurgery Rotation (NTPDP)

University of Illinois at Chicago, College of Pharmacy

1993 - 1996 Clinical Orientation Clerkship
1993 - 1996 Pharmacy Practice Clerkship, Neurosurgery Rotation

University of Kentucky, College of Pharmacy

1990 - 1993 PHR 870 Clinical Orientation Clerkship

VI. MEMBERSHIPS:

American Association of Colleges of Pharmacy (AACCP)
American College of Clinical Pharmacy (ACCP)
American Pharmacists Association (APhA)
American Society of Health-System Pharmacists (ASHP)
Illinois Council of Health-System Pharmacists (ICHSP)
Illinois Pharmacists Association (IPhA)
Metro East Pharmacist Association (MEPA)

VII. COMMITTEES/OFFICES:

PROFESSIONAL ORGANIZATIONS:

American College of Clinical Pharmacy (ACCP)

2002 - 2004 Fellowship Review Committee (FRC), (Chair, 2003-2004)
2003 - 2004 Barriers to post-Pharm.D. Training Committee (FRC Subcommittee), Chair
2003 - 2006 CNS PRN Mini-sabbatical Review Committee

American Association of Pharmaceutical Sciences (AAPS)

2001 - 2003 Logistics Committee, Southern Regional Discussion Group

Illinois College of Clinical Pharmacy (ICCP)

1996 Programs Committee (Co-Chair, 1996)
1994 - 1995 Nominations Committee (Chair, 1995)

UNIVERSITY:

Southern Illinois University Edwardsville, School of Pharmacy

2005 - present Experiential Education Committee
2005 - 2008 Faculty Development Committee
2005 - 2006 Peer Evaluation Task Force
2005 - present Outcomes Assessment Committee (Chair 2006-2007)
2005 - present Strategic Planning Committee
2005 - 2006 Physical Facilities and Safety Committee
2004 - present Pharmacy Administrative Team
2004 - 2006 Admissions Committee
2004 - 2008 Curriculum Committee
2004 - 2005 Interdisciplinary Education Task Force

University of Arkansas for Medical Sciences, Campus

2003 - 2004 Secretary of Academic Senate, UAMS
1996 - 2000 Media Services Advisory Committee

University of Arkansas for Medical Sciences, College of Pharmacy

2002 - 2003 Bylaws Revision Committee (Subcommittee of Executive Committee), Chair
2002 - 2003 Graduate Program Development Committee, Department of Pharmacy Practice
2001 - 2004 Secretary of the Faculty, UAMS College of Pharmacy
2001 - 2003 Incentive Committee (Subcommittee of Executive Committee), Chair
2000 - 2004 Pharmacy Student Research Committee
2000 - 2003 Pharmacy Practice Research Fellowship Committee
2000 - 2004 Promotion & Tenure Committee (Chair, 2003-2004)
2000 - 2002 Curriculum Committee
2000 - 2001 Secretary, Department of Pharmacy Practice
1998 - 1999 Pharmaceutical Sciences Seminar Course Committee
1997 - 2004 Pharmaceutical Sciences Graduate Faculty
1996 - 1998 Awards and Financial Aid Committee

University of Arkansas for Medical Sciences, Graduate School

2003 - 2004 Graduate Program Curriculum Committee
1999 - 2001 Committee for the Allocation of Graduate Student Research Funds (CAGSRF)

University of Illinois at Chicago

1994 - 1995 Student Faculty Relations Committee
1993 - 1996 Functional Neuroimaging Collaboratory

University of Kentucky

1992 - 1993 Neurosurgery Pharmacologic Research Committee
1992 - 1993 Head Injury Research Committee
1991 - 1992 Ambulatory Care Rotation Guidelines Committee
1990 - 1991 Residency and Residency Seminar Committee

St. Louis College of Pharmacy

1987 - 1989 Inter-Fraternity Council member
1987 - 1988 President, Beta Delta Chapter
Phi Delta Chi Pharmaceutical Fraternity
1986 - 1987 Officer, Beta Delta Chapter
Phi Delta Chi Pharmaceutical Fraternity

VIII. AWARDS/RECOGNITION:

2006 AACP Academic Leadership Fellow
2005 Academic Keys Who's Who in Pharmaceutical Sciences Education (WWPSE)
2004 Fellow, American College of Clinical Pharmacy
2003 Outstanding Faculty Award, Department of Pharmacy Practice, University of Arkansas for Medical Sciences
1999 National Science Foundation EPSCoR Fellow, University of Arkansas for Medical Sciences
1990 Sandoz Pharm.D. Award, St. Louis College of Pharmacy
1990 Best Poster Award - Annual Research/Scholarly Activity Poster Presentation, St. Louis College of Pharmacy
1990 Dean's List, St. Louis College of Pharmacy
1984 Presidential Scholarship Award, St. Louis College of Pharmacy

IX. SPEAKING ENGAGEMENTS:

NATIONAL

"How to Train Future Pharmacy Faculty." American College of Clinical Pharmacy. San Francisco, CA. October 2005. (Invited Discussion Leader)

"Utilization and Limitations of Microdialysis." Society of Critical Care Medicine. Orlando, FL. February 2004. (Invited Lecture)

"Intracerebral Microdialysis: Experimental and Clinical Applications." American Epilepsy Society, Annual Meeting. Seattle, WA. December 2002. (Invited Lecture)

"CNS Minisabbatical Experience." American College of Clinical Pharmacy, Annual Meeting. Albuquerque, NM. October 2002. (Invited Lecture)

"Microdialysis: Experimental and Clinical Applications in Neuroscience." American College of Clinical Pharmacy, Annual Meeting. Savannah, GA. April 2002. (Invited Lecture)

"Designing a Microdialysis Experiment." American College of Clinical Pharmacy, Annual Meeting. Savannah, GA. April 2002. (Invited Lecture)

"Blood-Brain Barrier P-glycoprotein Function is Reduced in Aged Rats." Experimental Biology Annual Meeting (American Society for Pharmacology and Experimental Therapeutics). New Orleans, LA. April 2002 (Poster).

"Navigating Your Academic Career. Preparing from the First Day of Your Appointment." American College of Clinical Pharmacy, Annual Meeting. Tampa, FL. October 2001. (Invited Lecture)

"Antiepileptic Drugs in Development." Annual ASHP Midyear Clinical Meeting and Exhibits. Las Vegas. December 2000. (Invited Lecture)

"Drug-Cytokine Interactions: IL-6 Impact on Blood-Brain Barrier Transport." American College of Clinical Pharmacy, Annual Meeting. Los Angeles, CA. November 2000. (Poster)

"Oxidative Stress and Neurologic Disorders: Putative Role of Antioxidant Therapy." Annual ASHP Midyear Clinical Meeting and Exhibits. Orlando, Florida. December 1999. (Invited Lecture)

"Interventions to Achieve Tonic Exposure to Levodopa: Delaying or Preventing the Onset of Motor Complications." Annual ASHP Midyear Clinical Meeting and Exhibits. Las Vegas, Nevada. December 1998. (Invited Lecture)

"Anticonvulsant Activity of System-L Inhibition." American Epilepsy Society. San Francisco, California. December 1998. (Poster)

"Competitive Inhibition of Gabapentin Brain Uptake in the Rat." American College of Clinical Pharmacy, Annual Meeting. Cincinnati, Ohio. November 1998. (Poster)

"Growth Factors as Neurotrophins in Neurological Diseases." American College of Clinical Pharmacy, Annual Meeting. Phoenix, Arizona. November 1997. (Invited Lecture)

"Dose-Dependent Transport of Gabapentin at the Blood-Brain Barrier." American College of Clinical Pharmacy. Annual Meeting. Ft. Lauderdale, Florida; 1997. (Poster).

"Epidemiology and Pathophysiology of CNS Injury." Annual ASHP Midyear Clinical Meeting and Exhibits. New Orleans, Louisiana. December 1996. (Invited Lecture)

"Safety & Pharmacokinetics of Intravenous Loading Doses of Fosphenytoin (Cerebyx[®]) versus Dilantin[®] in Neurosurgery Patients." American Association of Neurological Surgeons. Minneapolis, Minnesota. May 1996. (Poster)

"Assessment of the Effect of Papaverine on Severe Cerebral Vasospasm in a Neurosurgical Patient Using Transcranial Cerebral Oximetry." American College of Clinical Pharmacy Annual Meeting, St. Louis, Missouri. August 1994. (Poster)

"Positive Nitrogen Balance in Moderate to Severe Closed Head Injury (CHI) Following Administration of Insulin-like Growth Factor-1." American College of Clinical Pharmacy Annual Meeting, Reno, Nevada. August 1993. (Poster)

"Quality Assurance Evaluation of Prophylactic Antibiotics in Spinal Surgery." Annual ASHP Midyear Clinical Meeting and Exhibits. New Orleans, Louisiana. December 1991. (Poster)

REGIONAL

"Update in the Management of Parkinson's Disease." UAMS College of Pharmacy Vacation CE Program. Destin, Florida, September 2003. (Invited Lecture)

"Parkinson's Disease: Interventions to Achieve Tonic Dopaminergic Stimulation." West Virginia Society of Health System Pharmacists Annual Meeting. Charleston, West Virginia, April 2001. (Invited Lecture)

"Parkinson's Disease: Current Management & New Pharmacologic Approaches in Managing Symptoms." NeighborCare Program. Linthicum Heights, Maryland, November 1999.

"Parkinson's Disease: Current Management & New Pharmacologic Approaches in Managing Symptoms." NeighborCare Program. Denver, Colorado, November 1999.

"Parkinson's Disease – New Developments." NeighborCare Program. Charleston, South Carolina, October 1999.

"Acute Phase Response and Blood-Brain Barrier P-glycoprotein Function: Preliminary Report." American Association of Pharmaceutical Scientists Southern Regional Discussion Group (AAPS-SRDG). Monroe, Louisiana. May 1999. (Poster)

"Competitive Gabapentin Brain Uptake in the Rat." American Association of Pharmaceutical Scientists Southern Regional Discussion Group (AAPS-SRDG). Monroe, Louisiana. May 1999. (Platform)

"Anticonvulsant Activity of System-L Inhibition." American Association of Pharmaceutical Scientists Southern Regional Discussion Group (AAPS-SRDG). Oxford, Mississippi. May 1998. (Poster)

"New Pharmacologic Strategies in Neuroprotection." Southeastern Michigan Society of Hospital Pharmacists. Detroit, Michigan. November 1994. (Invited Lecture)

"Pharmacotherapeutics of Neurotrauma: Present & Future." Wisconsin Society of Hospital Pharmacist (WSHP) Fall Meeting. Wisconsin Dells, Wisconsin. September 1994. (Invited Lecture)

"New Pharmacologic Strategies in Neuroprotection." Illinois Pharmacists Association Midwinter Pharmaceutical Care Conference. Chicago, Illinois. January 1994. (Invited Lecture)

"A Phase II Open-label, Randomized, Controlled Study of rhIGF-1 in Patients with Severe Head Injury." Great Lakes Pharmacy Residency Conference. Chicago, Illinois. April 1992. (Platform)

"Antimicrobial Prophylaxis in Spinal Surgery." Great Lakes Pharmacy Residency Conference. Ypsilanti, Michigan. April 1991. (Platform)

LOCAL

"Drug Interactions with Herbal Medicines." OASIS Senior Program. Alton, IL. October 2005. (Invited Lecture)

"Tips on Taking Your Medication." SIUE Gerontology Program: Dialogue with Senior Citizens. Glen Carbon, IL. July 2005. (Invited Lecture)

"Drug Interactions with Herbal Medicines." SIUE Gerontology Program: Dialogue with Senior Citizens. Edwardsville, IL. October 2004. (Invited Lecture)

"Pharmacological Management of Intracranial Hypertension." Critical Care Lecture Series, Arkansas Nursing Association Continuing Education Seminar. The University of Arkansas for Medical Sciences. Little Rock, Arkansas. May 2004. (Invited Lecture)

"New Guidelines in the Management of Parkinson's Disease." UAMS College of Pharmacy Faculty Development & Continuing Education Seminar Series "Learn @ Noon", The University of Arkansas for Medical Sciences. Little Rock, Arkansas. December 2002. (Invited Lecture)

"Evaluation of cGMP Dependent Alterations in Cerebral Blood Flow in Alzheimer's Disease. UAMS Alzheimer's Disease Center, Donald W. Reynolds Center on Aging. Little Rock, AR. September 2002. (Invited Lecture)

"Update on Stroke Epidemiology and Prevention." Arkansas Pharmacists Association, Annual Meeting. Little Rock, Arkansas. June 2002. (Invited Lecture)

"Blood-Brain Barrier P-glycoprotein Dysfunction: A Contributing Factor in Alzheimer's Disease." Vascular Dementia Research Group Meeting, Donald W. Reynolds Center on Aging, The University of Arkansas for Medical Sciences. Little Rock, Arkansas. January 2002. (Invited Lecture)

"Promotion & Tenure: Preparing from the First Day of Your Appointment." Pharmacy Practice Forum, The University of Arkansas for Medical Sciences, College of Pharmacy. Little Rock, Arkansas. January 2002.

"New Guidelines in the Management of Parkinson's Disease." UAMS College of Pharmacy Continuing Education Seminar Series, The University of Arkansas for Medical Sciences. Little Rock, Arkansas. October 2001.

"New Treatment Options for the Acute Management of Seizures." UAMS College of Pharmacy Continuing Education Seminar Series, The University of Arkansas for Medical Sciences. Little Rock, Arkansas. February 2000.

"Gabapentin Transport Across the Blood-Brain Barrier. Pharmacology & Toxicology Seminar. College of Medicine, The University of Arkansas for Medical Sciences. Little Rock, Arkansas. March 1999. (Invited Lecture)

"Pharmacology of Neuroprotection." Neurosurgery Grand Rounds. College of Medicine, The University of Arkansas for Medical Sciences. Little Rock, Arkansas. July 1998. (Invited Lecture)

"Anticonvulsant Activity of System-L Inhibition." Pharmacy Practice Forum. College of Pharmacy, The University of Arkansas for Medical Sciences. Little Rock, Arkansas. April 1998. (Invited Lecture)

"Update on the Management of Spasticity Associated with Multiple Sclerosis." Little Rock Multiple Sclerosis Support Group. Little Rock, Arkansas. September 1997. (Invited Lecture)

"Phenytoin Pharmacokinetics." Little Rock VAMC Pharmacokinetic School. The Veterans Administration Hospital, Little Rock, Arkansas. August 1997. (Invited Lecture)

"Animal Models - Relevance to Clinical Therapeutics." College of Pharmacy Residents Research Seminar Series. The University of Illinois at Chicago, Chicago, Illinois. April 1996. (Invited Lecture)

"Pathophysiology of Secondary Brain Injury." College of Pharmacy Office of Continuing Education Seminar: New Pharmacotherapeutic Advances in Stroke Therapy. The University of Illinois at Chicago, Chicago, Illinois. April 1995. (Invited Lecture)

"Antiepileptic Pharmacokinetics/Dynamics: What is Important in Targeting Therapy." Neurology Conference - Introduction to Neuropharmacologic Therapeutics. University of Illinois at Chicago College of Medicine, Chicago, Illinois. October 1993. (Invited Lecture)

"Pharmacologic Strategies for Minimizing Ischemic Neuronal Injury." Neurosurgery Grand Rounds. University of Kentucky College of Medicine, Lexington, Kentucky. April 1993. (Invited Lecture)

"New Neuroprotective Drug Therapies." Continuing Education Seminar Series. University of Kentucky Medical Center, Lexington, Kentucky. March 1993. (Invited Lecture)

"A Phase II Open-label, Randomized, Controlled Study of rhIGF-1 in Patients with Severe Head Injury." Continuing Education Seminar Series. University of Kentucky Medical Center, Lexington, Kentucky. March 1992.

"Diagnosis & Management of Phenytoin sodium-induced Hepatitis." Surgery Clinical Conference. University of Kentucky Medical Center, Lexington, Kentucky. January 1992.

"Management of Beta-blocker Overdose." Critical Care Clinical Conference. University of Kentucky Medical Center, Lexington, Kentucky. October 1991.

"Dantrolene sodium in Malignant Hyperthermia." Surgery Clinical Conference. University of Kentucky Medical Center, Lexington, Kentucky. March 1991.

"Management of Acute Phenytoin Toxicity." Surgery Clinical Conference. University of Kentucky Medical Center, Lexington, Kentucky. February 1991.

"Infectious Complications of Spinal Surgery." Continuing Education Seminar Series. University of Kentucky Medical Center, Lexington, Kentucky. January 1991.

"Drug-induced Delayed-onset Renal Failure." Medicine Clinical Conference. University of Kentucky Medical Center, Lexington, Kentucky. November 1990.

"Pathophysiology and Pharmacotherapy of Infective Endocarditis." Pharm.D. Student Seminar Series. St. Louis College of Pharmacy, St. Louis, Missouri. April 1990.

"Variance of Syringe Dosing Using Technetium-99m: A Pilot Study." St. Louis College of Pharmacy's Annual Research/Scholarly Activity Presentation. St. Louis College of Pharmacy, St. Louis, Missouri. March 1990. (Poster)

"Infective Endocarditis." Clinical Pharmacy Seminar. Barnes Hospital, St. Louis, Missouri. January 1990.

"Drug-induced Psychosis." Psychopharmacology Seminar Series. Washington University School of Medicine, St. Louis, Missouri. November 1989.

X. CREATIVE PRODUCTIVITY:

PEER-REVIEWED PUBLICATIONS

1. Wuller WR, **Luer MS**. *A Sequence of Introductory Pharmacy Practice Experiences to Address the New Standards for Experiential Learning*. American Journal of Pharmaceutical Education in press.
2. **Luer MS**, Neill KK, Gurley BJ, Shannon ML, Killian AD, Rodvold KA. *Fluctuations in Vancomycin CNS Tissue Concentrations Following Intermittent and Continuous Infusions in the Rat*. Neurological Research. 2004;26:312-315.
3. Kennedy RH, Gubbins PO, **Luer MS**, Reddy IK, Light KE. *Developing and Sustaining a Culture of Scholarship*. American Journal of Pharmaceutical Education 67(3): p NIL_0049-NIL_0051. 2003; (Article 92:1-18).
4. Neill KK, **Luer MS**. *Ischemic Stroke Prevention: An Update on Antiplatelet Therapy*. Neurological Research 2002;24:381-8.
5. Scheife RT, Schumock GT, Burstein A, Gottwald MD, **Luer MS**. *Impact of Parkinson's Disease and Its Pharmacologic Treatment on Quality of Life and Economic Outcomes*. American Journal of Health-Systems Pharmacy 2000;57:953-62.
6. **Luer MS**. *Interventions to Achieve Tonic Exposure to Levodopa: Delaying or Preventing the Onset of Motor Complications*. Pharmacotherapy 1999;19(11 Pt 2):169S-179S.
7. **Luer MS**, Hamani C, Dujovny M, Gidal B, Cwik M, Deyo K, Fischer JH. *Saturable Transport of Gabapentin at the Blood-Brain Barrier*. Neurological Research 1999;21(6):559-62.
8. **Luer MS**, Rhoney DH. *Tiagabine: A Novel Antiepileptic Drug*. The Annals of Pharmacotherapy 1998;21(11): 1173-1180.
9. Winkler SR, **Luer MS**. *Antiepileptic Drug Review: Part 2*. Surgical Neurology 1998;49(5):566-8.
10. Winkler SR, **Luer MS**. *Antiepileptic Drug Review: Part 1*. Surgical Neurology 1998;49(4):449-52.
11. **Luer MS**. *Neuropharmacology Update: Fosphenytoin*. Neurological Research 1998;20:178-82.
12. Akdemir G, **Luer MS**, Dujovny M, Misra M, Ausman JI. *Intracerebroventricular Atrial Natriuretic Peptide for Acute Intracranial Hypertension*. Neurological Research 1997;17:515-20.
13. Ryan M, Rhoney DH, **Luer MS**, Hatton J. *New and Investigational Treatment Options for Ischemic Stroke*. Pharmacotherapy 1997;17(5):959-69.
14. Hamani C, **Luer MS**, Dujovny M. *Microdialysis in the Human Brain: Review of its Applications*. Neurological Research 1997;19(3):281-8.
15. Fischer JH, Cwik M, **Luer MS**, Sibley CB, Deyo KL. *Stability of Fosphenytoin in Common Intravenous Fluid Admixtures and Containers*. The Annals of Pharmacotherapy 1997;31(5):553-9.
16. Hatton J, Rapp RP, Kudsk KA, Brown RO, **Luer MS**, McClain CJ, Gesundheit N, Bukar J, Dempsey RJ, Young B. *Intravenous rhigf-1 in Moderate to Severe Head Injury: A Phase II Safety and Efficacy Trial*. Journal of Neurosurgery 1997;86:779-86.
17. Hatton J, Rapp RP, Kudsk KA, Brown RO, **Luer MS**, McClain CJ, Gesundheit N, Bukar J, Dempsey RJ, Young B. *Intravenous rhigf-1 in Moderate to Severe Head Injury: A Phase II Safety and Efficacy Trial*. Neurosurgery Focus 1997 May 15;2(5).
18. **Luer MS**, Rhoney DH, Hughes M, Hatton J. *New Pharmacologic Strategies in Acute Neuronal Injury*. Pharmacotherapy 1996;16(5):830-48.
19. Rhoney DH, **Luer MS**, Hughes M, Hatton J. *New Pharmacologic Approaches to Acute Spinal Cord Injury*. Pharmacotherapy 1996;16(3):382-92.
20. Alp SM, **Luer MS**, Misra M, Dujovny M, Ausman JI. *Modified Solution for Filling MRI Coordinate Indicators for the Z-D Stereotactic Frame*. Neurological Research 1995;17:295-6.
21. **Luer MS**, Dujovny M, Slavin KV, Hernandez-Avila G, Ausman JI. *Regional Cerebral Oxygen Saturation During Intraarterial Papaverine Therapy for Vasospasm. A Case Report*. Neurosurgery 1995;36(5):1033-6.

22. Hernandez-Avila G, Dujovny M, Slavin KV, **Luer MS**, Nijensohn E, Geremia G, Ausman JI. *Use of Transcranial Cerebral Oximetry to Monitor Regional Cerebral Oxygen Saturation During Neuroendovascular Procedures.* American Journal of Neuroradiology 1995;16:1618-25.
23. Dujovny M, Slavin KV, **Luer MS**, Hernandez-Avila G, Ausman JI. *Transcranial Cerebral Oximetry and Carotid Cavernous Fistula Occlusion. Technical Note.* Acta Neurochirurgica 1995;133:83-6.
24. **Luer MS.** *Criteria for Use of Gabapentin in Adult and Adolescent Inpatients and Outpatients.* American Journal of Health-System Pharmacy 1995;52:92-3.
25. Slavin KV, Dujovny M, Ausman JI, Hernandez-Avila G, **Luer MS**, Stoddart H. *Clinical Experience with Transcranial Cerebral Oximetry.* Surgical Neurology 1994;42(6):531-9.
26. Hatton J, **Luer MS**, Hirsch J, Westrich T, Holstad SG. *Histamine Receptor Antagonists and Lipid Stability in Total Nutrient Admixtures.* Journal of Parenteral Enteral Nutrition 1994;18(4):308-12.
27. **Luer MS**, Tortorice K. *Criteria for Use of Felbamate in Adult and Adolescent Inpatients and Outpatients.* American Journal of Hospital Pharmacy 1994;51:1701-3.
28. **Luer MS**, Hatton J. *Vancomycin Administration into the CSF: A Review.* The Annals of Pharmacotherapy 1993;27(7/8):912-21.
29. **Luer MS**, Hatton J. *Appropriateness of Antibiotic Selection and Use in Laminectomy and Microdissectomy.* American Journal of Hospital Pharmacy 1993;50:667-70.
30. Hatton J, **Luer MS**, Rapp RP. *Growth Factors in Nutritional Support.* Pharmacotherapy 1993;13(1):17-27.
31. Rapp RP, Hatton J, Ott L, **Luer MS**, Young B. *Specific Problems Associated with Enteral Nutrition in Patients with Head Injury.* Clinical Nutrition 1993;12(Suppl 1):S70-S74.

ABSTRACTS

1. Poirier TI, Gupchup GV, Crider MA, **Luer MS**, Medon PJ. *Assessment at SIUE School of Pharmacy: A CQI Perspective.* American Association of Colleges of Pharmacy Annual Meeting. Cincinnati, Ohio; 2005.
2. **Luer MS**, Neill KK, Shannon ML, Gurley BJ. *Blood-Brain Barrier P-glycoprotein Function is Reduced in Aged Rats.* FASEB 2002;16(5):A940.
3. Neill KK, **Luer MS**, Shannon ML, Gurley BJ. *Age-Related Changes in Blood-Brain Barrier P-glycoprotein.* Pharmacotherapy 2001;21(10):1287.
4. Melchert RB, Klima K, Petty NM, McNew BL, **Luer MS**, Kennedy RH. *Survival and Cardiovascular Function in Conscious Rats Subjected to Controlled Hemorrhagic Shock and Fluid Resuscitation.* Combat Fluid Resuscitation 2001 Annual Meeting. Bethesda, MD. 2001
5. **Luer MS.** *Antiepileptic Drugs in Development.* ASHP Midyear Clinical Meeting. 35(Dec): p PI-50. 2000.
6. **Luer MS**, Miller MW, Petty NM, Shannon ML, Neill KK, Melchert RB. *Drug-Cytokine Interactions: IL-6 Impact on Blood-Brain Barrier Transport.* Pharmacotherapy 2000;20(10):1282.
7. **Luer MS.** *Oxidative Stress and Neurologic Disorders: Putative Role of Antioxidant Therapy.* ASHP Midyear Clinical Meeting. 34(Dec): p PI-79. 1999.
8. **Luer MS**, Neill K, Shannon ML, Gurley BJ. *Acute Phase Response and Blood-Brain Barrier P-glycoprotein Function: Preliminary Report.* American Association of Pharmaceutical Scientists Southern Regional Discussion Group (AAPS-SRDG). Monroe, Louisiana. 1999.
9. **Luer MS**, Shannon ML, Gurley BJ. *Competitive Gabapentin Brain Uptake in the Rat.* American Association of Pharmaceutical Scientists Southern Regional Discussion Group (AAPS-SRDG). Monroe, Louisiana. 1999.
10. Garey KW, Killian AD, Narang PK, **Luer MS**, Dujovny M, Danziger LH, Rodvold KA. *Penetration of Rifabutin (R) into Cerebrospinal Fluid (CSF) of Ventriculostomy Patients.* American Society for Clinical Pharmacology and Therapeutics. Annual Meeting. San Antonio, Texas; 1999.
11. **Luer MS**, Shannon ML, Gurley BJ. *Anticonvulsant Activity of System-L Inhibition.* American Epilepsy Society. San Francisco, California; 1998.
12. **Luer MS**, Shannon ML, Gurley BJ, Gidal BE, Fischer JH. *Competitive Inhibition of Gabapentin Brain Uptake in the Rat.* American College of Clinical Pharmacy. Annual Meeting. Cincinnati, Ohio; 1998.

13. **Luer MS**, Shannon ML, Gurley BJ. *Anticonvulsant Activity of System-L Inhibition*. AAPS Southern Regional Discussion Group (SRDG). First Annual AAPS-SRDG Meeting. Oxford, Mississippi; 1998.
14. Chuck SK, Killian AD, **Luer MS**, Danziger LH, Rodvold KA. *Penetration of Vancomycin (V) into Cerebrospinal Fluid (CSF) of Ventriculostomy Patients*. American Society for Clinical Pharmacology and Therapeutics. Annual Meeting. New Orleans, Louisiana; 1998.
15. Fischer JH, Andrews CO, Fischer PA, **Luer MS**, Charbel FT. *Diurnal Variations in the Pharmacokinetics of Gabapentin*. International Epilepsy Congress. Dublin, Ireland; 1997.
16. Hamani C, **Luer MS**, Dujovny M, Ausman JI, Fischer JH. *Dose-Dependent Transport of Gabapentin at the Blood-Brain Barrier*. American Association of Neurologic Surgeons. Annual Meeting. Denver, Colorado; 1997. (encore).
17. **Luer MS**, Fischer JH, Hamani C, Gidal B, Dujovny M. *Dose-Dependent Transport of Gabapentin at the Blood-Brain Barrier*. American College of Clinical Pharmacy. Annual Meeting. Ft. Lauderdale, Florida; 1997. (encore).
18. **Luer MS**. *Epidemiology and Pathophysiology of CNS Injury*. ASHP Midyear Clinical Meeting. 31(Dec): p PI-71. 1996.
19. **Luer MS**, Fischer JH, Hamani C, Gidal B, Dujovny M. *Dose-Dependent Transport of Gabapentin at the Blood-Brain Barrier*. American Epilepsy Society. Annual Meeting. San Francisco, California; 1996.
20. Akdemir G, **Luer MS**, Dujovny M, Misra M, Ausman JI. *Effects of Atrial Natriuretic Peptide on Acute Brain Edema*. Congress of Neurological Surgeons. Annual Meeting. Montreal, Canada; 1996.
21. **Luer MS**, Tonkovich L, Fischer JH, Smith MF, Sloan EP, Charbel FT. *Safety & Pharmacokinetics of Intravenous Loading Doses of Fosphenytoin (Cerebyx[®]) versus Dilantin[®] in Neurosurgery Patients*. American Association of Neurological Surgeons. Minneapolis, Minnesota; 1996.
22. Tonkovich L, Winkler SR, **Luer MS**, Ausman JI. *Use of Intracerebroventricular tPA in a Patient Following Aneurysmal Subarachnoid Hemorrhage*. American College of Clinical Pharmacy. Annual Meeting. Monterey, California; 1996.
23. Alp S, Dujovny M, Slavin K, **Luer MS**, Ausman JI. *Use of Transcranial Oximetry in Diagnostic and Therapeutic Angiographies*. American Association of Neurologic Surgeons. Annual Meeting. Orlando, Florida; 1995.
24. **Luer MS**, Slavin K, Dujovny M, Hernandez G, Charbel FT, Ausman JI. *Assessment of the Effect of Papaverine on Severe Cerebral Vasospasm in a Neurosurgical Patient Using Transcranial Cerebral Oximetry*. American College of Clinical Pharmacy. Annual Meeting. St. Louis, Missouri; 1994.
25. Hatton J, Rhoney D, **Luer MS**, LU W, Young AB. *Evaluation of Gastric pH Control in Head Trauma Patients by Continuous Infusion of Cimetidine*. Congress of Neurological Surgeons. 44th Annual Meeting, Chicago, Illinois; 1994.
26. **Luer MS**, Hatton J, Rapp RP, McClain CJ, Young B. *Positive Nitrogen Balance in Moderate to Severe Closed Head Injury (CHI) Following Administration of Insulin-like Growth Factor-1*. American College of Clinical Pharmacy. Annual Meeting, Reno, Nevada; 1993.
27. Hatton J, Holstad SG, **Luer MS**, Rosenbloom AD, Westrich T, Hirsch J. *Stability of H₂-receptor Antagonists in Total Nutrient Admixtures*. American Society of Parenteral and Enteral Nutrition. San Diego, California; 1993.
28. **Luer MS**, Hatton J, Rapp RP, Young AB. *A Phase II Open-label, Randomized, Controlled Study of rhgf-1 in Patients with Severe Head Injury*. Great Lakes Pharmacy Residency Conference, Chicago, Illinois; 1992.
29. **Luer MS**, Hatton J. *Quality Assurance Evaluation of Prophylactic Antibiotics in Spinal Surgery*. Annual ASHP Midyear Clinical Meeting. 26(Dec): p P-78E. 1991.
30. **Luer MS**, Hatton J. *Antimicrobial Prophylaxis in Spinal Surgery*. Great Lakes Pharmacy Residency Conference, Ypsilanti, Michigan; 1991.

BOOK CHAPTERS

1. Medon P, **Luer MS**, Gupchup GV. *Creating a Shared Mission and Vision-Faculty Governance Issues*. In The Dean's Compass: Practical Advice for Achieving Excellence, 1st Edition.
2. **Luer MS**, Winkler SR. *Headache Disorders*. In Pharmacotherapy: A Patient-Focused Approach, 2nd edition; chapter 56.
3. Winkler SR, **Luer MS**. *Ischemic Stroke*. In Pharmacotherapy: A Patient-Focused Approach, 2nd edition; chapter 13.
4. Rhoney D, **Luer MS**. *Acute Management of the Head Injury Patient*. In Pharmacotherapy: A Patient-Focused Approach, 2nd edition; chapter 53.
5. **Luer MS**, Winkler SR. *Primary Headache Disorders*. In Pharmacotherapy: A Patient-Focused Approach, 1st edition; chapter 47.
6. Winkler SR, **Luer MS**. *Embolic Stroke*. In Pharmacotherapy: A Patient-Focused Approach, 1st edition; chapter 11.

CONTINUING EDUCATION (text)

1. **Luer MS**, Rhoney DH. *Tiagabine: A Novel Antiepileptic Drug*. The Annals of Pharmacotherapy 1998;21(11): 1261-1262 (PharmaCE),.
2. **Luer MS**. *Current Issues and Practical Aspects in the Treatment of Epilepsy*. 1994 Home Study Program, University of Kentucky.
3. **Luer MS**, Hatton J. *Vancomycin Administration into the CSF: A Review*. The Annals of Pharmacotherapy 1993;27(7/8):912-921. (PharmaCE).

NEWSLETTERS

1. **Luer MS**, Clifton GD. *Electrolyte Replacement in the Critically Ill Patient*. Pathways in Critical Care, Clinical Communications Inc, 1995.
2. **Luer MS**. *Adult Electrolyte Infusion Guidelines*. Pharmacy News for Nurses, the nursing newsletter of the University of Kentucky Drug Information Center, October 1992.
3. **Luer MS**. *Drug Management and Storage*. Pharmacy News for Nurses, the nursing newsletter of the University of Kentucky Drug Information Center, September 1991.
4. **Luer MS**. *Which Vitamin K?* The Drug Files, the newsletter of the St. Louis Drug Information Center, May 1990.

CONTRIBUTING EDITOR

Nursing 95 Drug Handbook, Springhouse Corporation, CNS Section.

Physicians' Drug Handbook, Sixth edition; Springhouse Corporation, CNS Section.

BOOK REVIEWS

Psychopharmacology. The Fourth Generation of Progress. Bloom FE and Kupfer DJ, Eds. Reviewed in Neurological Research 1995;17:400.

Calcium Regulation by Calcium-Binding Proteins in Neurodegenerative Disorders. Heizmann CW and Braun K, eds. Reviewed in Neurological Research, 1995.

Calcium Regulation by Calcium-Binding Proteins in Neurodegenerative Disorders. Heizmann CW and Braun K, eds. Reviewed in Doody's Health Sciences Book Review Annual CD-ROM, 1996.

Neurotransmitter Release and Its Modulation. Powis DA and Bunn SJ, eds. Reviewed in Doody's Health Sciences Book Review Journal 1996;4(1).

XI. LABORATORY RESEARCH EXPERIENCE:

Development of a Rapid in vitro Assay to Identify Selective Site Modulation of P-glycoprotein. Principal Investigator, June 1999 to 2001. {Sponsor: ACRC Partners in Research Program 1999, 2001}.

Drug-Cytokine Interaction: IL-6 Impact on BBB Transport. Principal Investigator, July 1999 to present. {Sponsor: American College of Clinical Pharmacy, Bristol-Myers Squibb CNS Research Award 1999}.

Acute Phase Response and BBB P-gp Function. Principal Investigator, 1998 to present. {Sponsor: UAMS Medical Research Endowment Fund 1998}

Age-related Changes in BBB P-Glycoprotein Function. Principal Investigator, 1998 to present. {Sponsors: National Institutes of Health (RO3) & American Association of Colleges of Pharmacy New Investigators Program 1998}

Competitive Inhibition of Gabapentin Brain Uptake in the Rat. Principal Investigator, 1997 to present. {Sponsor: American College of Clinical Pharmacy; Bristol Myers Squibb CNS Research Award 1997}

Anticonvulsant Activity of System-L Inhibition. Principal Investigator, 1997 to present. {Sponsor: Epilepsy Foundation of America, Junior Investigator Research Grant 1997-1998}

CNS Pharmacokinetics of Continuous Infusion Versus Intermittent Dosing of Vancomycin in the Rat. Principal Investigator, 1995 to 1998.

Stability of Fosphenytoin in Common Intravenous Fluid Admixtures and Containers. Principal Investigator, 1996. {Sponsor: Parke-Davis}

Dose-dependent System-L Function in the Blood-Brain Barrier of the Rat. A Microdialysis Study. Principal Investigator, 1995 to 1996. {Sponsor: University of Illinois at Chicago, Campus Research Board}

Effects of Atrial Natriuretic Peptide (ANP) Actions on Experimental Brain Edema in the Rat. Co-Investigator, 1995 to 1996

Variance of Syringe Dosing using Technetium-99m: A Pilot Study. St. Louis College of Pharmacy and The Jewish Hospital of St. Louis; Principal Investigator, 1990.

XII. CLINICAL RESEARCH EXPERIENCE:

Evaluation of cGMP Dependent Alterations in Cerebral Blood Flow in Alzheimer's Disease. Principal Investigator, January 2002 – June 2004. {Sponsor: NIH - UAMS Alzheimer's Disease Clinical Core (ADCC) Dementia Pilot Research Program}

Safety and Efficacy of Gabitril (tiagabine HCl) as Adjunctive Treatment to Non-Hepatic Enzyme Inducing Antiepileptic Drugs. Co-Investigator, 1997 to 1998. {Sponsor: Abbott}

Pharmacokinetics and Antibacterial Efficacy of Rifabutin in Cerebrospinal Fluid. Principal Investigator, 1994 to 1996. {Sponsor: Pharmacia}

A Double-blind, Randomized Parallel-Group, Single-dose, Multicenter, Safety, Tolerance, and Pharmacokinetic Study of Intravenous Fosphenytoin (Cerebyx®) Versus Intravenous Dilantin® in Patients Requiring a Loading Dose of Phenytoin. Co-investigator, 1995. {Sponsor: Parke-Davis}

Transcranial Cerebral Oximetry Monitoring of Regional Oxygen Saturation during Neuroendovascular Procedures. Co-Investigator, 1993 to 1994.

Evaluation of Gastric pH Control in Head Trauma Patients by Continuous IV Infusion of Cimetidine. Co-Investigator, 1992 to 1993. {Sponsor: Smith Kline Beecham}

Head Injury Tirilazad Trial (HITT): A Multicenter Efficacy Study of Tirilazad Mesylate (U-74006F) in Patients with Moderate and Severe Head Injury. Co-Investigator, 1992 to 1993. {Sponsor: Upjohn}

Multicenter Dose-ranging Safety and Effectiveness Study of PEG-Superoxide Dismutase in Severe Head Injury. Co-Investigator, 1992 to 1993. {Sponsor: Sterling Winthrop}

Mechanisms of Brain-injury and its Systemic Sequelae. NIH Program Project Grant. Research Assistant, 1992 to 1993.

Efficacy/Safety of Tirilazad Mesylate (U-74006F) in Patients with Subarachnoid Hemorrhage. Research Assistant, 1992 to 1993. {Sponsor: Upjohn}

The Effect of Protein Binding on Drug Distribution into the CNS Following Ischemic Brain Injury. Research Assistant, 1992 to 1993. {Sponsor: ACCP}

A Double-Blind, Randomized, Parallel-group, Multi-center Clinical Study of Tolerance and Safety of Multiple Doses of Intravenously Administered Fosphenytoin sodium (CI-982) versus Dilantin® Parenteral in Neurosurgery Patients. Co-investigator, 1992 to 1993. {Sponsor: Parke-Davis}

Stability of H₂-receptor Antagonists in Total Nutrient Admixtures. Co-Investigator, 1992.

The Safety of Intravenous Valproate. Research Assistant, 1992. {Sponsor: Abbott}

A Phase II Open-label, Randomized, Controlled Study of rhigf-1 in Patients with Severe Head Injury. Research Assistant, 1991 to 1992. {Sponsor: Genentech}

A Study to Assess the Effects of Chronic Oral Carvedilol on the Steady-state Pharmacokinetics of Oral Digoxin in Patients with Mild to Moderate Hypertension. Research Assistant, 1991.

Investigation of Intravenous Infusion Monitoring System: Site Guard. (IMED Infusion Study). Research Assistant, 1991.

The Comparison of Imipenem-Cilastatin (Primaxin®) and the combination of Ampicillin, Gentamicin, and Clindamycin in the Treatment of Serious Gynecologic and Lower Abdominal Infections. Research Assistant, 1991.

Clinical Experience with Iron Dextran Administration Using TPN Solution Containing Lipid. Research Assistant, 1989 to 1990.

Gentamicin Dosing Kinetics in the Elderly. Undergraduate research project, 1988.

XIII. JOURNAL REVIEWER:

American Journal of Pharmaceutical Education	2004
The Journal of Pharmacy Technology	2003
Antimicrobial Agents & Chemotherapy	2001 to 2004
Neurological Research	1994 to present
The Annals of Pharmacotherapy	1996 to 2004
Pharmacotherapy	1996 to 2005
Journal of Informed Pharmacotherapy	2000
Surgical Neurology	1995 to 1996

XIV. OTHER ACTIVITIES:

External Reviewer, Pharmacy Practice Section, American Association of Colleges of Pharmacy Research Grants. 2006.

Judge, American Pharmacists Association/Academy of Students of Pharmacy Patient Counseling Competition. Southern Illinois University Edwardsville. 2005-2006.

External Reviewer, ACCP CNS PRN Minisabbatical Review Program. American College of Clinical Pharmacy. 2004, 2005, 2006.

External Reviewer, Summer Research Fellowship Grant Program. Southern Illinois University Edwardsville. November 2005.

Author, "Overview of Parkinson's Disease. Etiology, Diagnosis, Progression, and Management Strategies." Boston Healthcare. Scottsdale, AZ. 2003.

External Reviewer, Promotion & Tenure Committee, University of Colorado, College of Pharmacy. January 2003.

External Reviewer, Pharmacotherapy Self-Assessment Program (PSAP-IV), Book 7. "Movement Disorders: Parkinson's Disease and Essential Tremor." June 2002.

External Reviewer, NIH Clinical Center Pharmacy Research Council (PRC) Grant Program. August 2002.

Session Moderator. "ACCP Scientific Series – Novel Sampling Techniques: Microdialysis as a Gateway to New Knowledge. American College of Clinical Pharmacy, Spring Practice and Research Forum. April 2002.

External Reviewer, University of Kentucky Medical Center Research Grant. April 2000.

External Reviewer, Pharmaceutics Section, American Association of Colleges of Pharmacy Research Grants. 2000, 2002.

External Reviewer, Medical Research Endowment Grant Program, University of Arkansas for Medical Sciences, 2000 - 2003.

Editorial Board Member, Neurological Research, Maney Publishing. Cambridge, MA. 1999 - present.

External Reviewer, Promotion & Tenure Committee, University of New Mexico, College of Pharmacy. 1999.

Workshop Moderator. "Faculty Relations." Phi Delta Chi South-central Regional Convention. Little Rock, Arkansas. April 1998.

Author, "Tiagabine Monograph." The University HealthSystem Consortium (UHC). Oakbrook Illinois. 1997.

Preceptor, Fosphenytoin Preceptor Training Program. Parke-Davis Pharmaceuticals, Division of Warner Lambert Company. University of Illinois at Chicago, College of Pharmacy. 1995 - 1996.

Author, "Evaluation of Gastric pH Control in Head Trauma Patients by Continuous IV Infusion of Cimetidine." FDA Annual Report for Investigational New Drug (IND). University of Kentucky College of Pharmacy. November 1992.

Editor, The Kentucky Connection, the newsletter of the University of Kentucky residency program. 1991.

XV. GRANT/CONTRACT ACTIVITY (Funded):

SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Intramural

1. Web-based Assessment of Student Learning. SIUE Excellence in Undergraduate Education. Co-Investigator, July 2007-June 2008. **\$5500**

UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

Extramural

2. Blood Brain Barrier P-glycoprotein after Focal Ischemia: Implications for Selective Drug Delivery. American Heart Association – Heartland Affiliate. Principal Investigator, January 2003 – December 2005. **\$121,000 (Indirect Costs: \$11,000)**.
3. CNS Mini-Sabbatical. American College of Clinical Pharmacy. July 2001 – June 2002. **\$2750**
4. Drug-Cytokine Interaction: IL-6 Impact on BBB Transport. American College of Clinical Pharmacy, Bristol-Myers Squibb Central Nervous System Research Award. Principal Investigator, July 1999 – December 2000. **\$10,000**
5. CNS Mini-Sabbatical. American College of Clinical Pharmacy. July 1999 – June 2000. **\$750**
6. Age-related Changes in BBB P-Glycoprotein Function. National Institute on Aging: Pilot Research Grant Program. Principal Investigator, January 1999 – December 1999. **\$72,927 (Indirect costs: \$22,927) (RO3 AG16435-01)**
7. Age-related Changes in BBB P-Glycoprotein Function. AACP Young Investigators Award. Principal Investigator, January 1999 – December 1999. **\$12,500**
8. Anticonvulsant Activity of System-L Inhibition. Epilepsy Foundation of America (EFA). Principal Investigator, July 1997 - June 1998. **\$39,985.47**
9. Competitive Inhibition of Gabapentin Brain Uptake in the Rat. American College of Clinical Pharmacy, Bristol-Myers Squibb Central Nervous System Research Award. Principal Investigator, July 1997 - June 1998. **\$10,000**

Intramural

10. The Role of P-glycoprotein in Alzheimer's Disease. Veteran's Administration Biomedical Research Foundation. Co-Investigator. January 2003 – December 2003. **\$40,000**
11. Evaluation of cGMP Dependent Alterations in Cerebral Blood Flow in Alzheimer's Disease. NIH - UAMS Alzheimer's Disease Clinical Core (ADCC) Dementia Pilot Research Program. Principal Investigator, January 2002 – June 2004. **\$20,000**
12. Acute Phase Response and BBB P-Glycoprotein Function. UAMS Medical Research Endowment Award. Principal Investigator, January 1999 – December 1999. **\$14,998**

UNIVERSITY OF ILLINOIS CHICAGO

Extramural

13. Stability of Fosphenytoin in Common Intravenous Fluid Admixtures and Containers. Parke-Davis Pharmaceuticals, Division of Warner-Lambert Company. Co-Investigator, January 1996. **\$35,325.90**
14. Pharmacokinetics and Antibacterial Efficacy of Rifabutin in Cerebrospinal Fluid. Pharmacia Pharmaceutical Company. Principal Investigator, January 1995. **\$25,000**
15. A Double-blind, Randomized Parallel-Group, Single-dose, Multicenter, Safety, Tolerance, and Pharmacokinetic Study of Intravenous Fosphenytoin (Cerebyx[®]) Versus Intravenous Dilantin[®] in Patients Requiring a Loading Dose of Phenytoin. Parke-Davis Pharmaceuticals, Division of Warner-Lambert Company. Co-Investigator, 1995. **\$112,000**

Intramural

16. Inhibition of the L-amino Acid Transport System as a New Mechanism of Antiepileptic Activity. Campus Research Board (CRB), University of Illinois. Principal Investigator, July 1995. **\$14,509**

UNIVERSITY OF KENTUCKY

Extramural

17. The Effects of rhlgf-1 on Immune Response in Acute Head Injury. American College of Clinical Pharmacy; Amgen Biotechnology Research Award. Co-Investigator, February 1993. **\$10,000**
18. Pharmacodynamic Influences on Phenytoin Disposition during the Acute Phase Response Following Neurosurgery. Epilepsy Foundation of America. Co-Investigator, August 1992. **\$30,000**

XVI. GRANT/CONTRACT ACTIVITY (Pending):

None

XVII. GRANT/CONTRACT ACTIVITY (Not Funded):

UNIVERSITY OF ARKANSAS

1. Hypertonic Antioxidative Fluid Resuscitation of Combined Traumatic Head Injury. Department of Defense, Office of Naval Research. Principal Investigator, April 2002 – June 2005. **\$609,729 (\$406,486-ONR, \$203,243-State of AR; Indirect Costs: \$172,377)** (submitted July 2001)
2. The Role of Blood-Brain Barrier P-glycoprotein in Limiting Antiepileptic Drug Activity. Rockefeller Brothers Fund – Charles E. Culpeper Biomedical Pilot Initiative. Co-Investigator. (Principal Investigator: Kathryn Neill, Pharm.D.) **\$25,000** (submitted December 2000)
3. Pharmacokinetic/Pharmacodynamic Evaluation of P-glycoprotein Influence on Antiepileptic Drugs. Epilepsy Foundation. Research Training Fellowship. Kathryn Neill – Fellow. Submitted November 2000. **\$40,000**
4. Fluid Resuscitation in Combined Hemorrhagic Shock and Traumatic Brain Injury. Department of Defense, Office of Naval Research. Principal Investigator, July 2001 – June 2004. **\$587,005 (\$391,337-ONR, \$195,668-State of AR; Indirect Costs: \$165,217)** (submitted September 2000)
5. Age-related Changes in Blood-Brain Barrier P-Glycoprotein Function. University of Arkansas for Medical Sciences, Reynold's Center on Aging. Principal Investigator, submitted December 1997. **\$14,988.26**
6. The Role of Blood-Brain Barrier P-Glycoprotein in Refractory Epilepsy. Klingenstein Fellowship Awards in the Neurosciences. Klingenstein Foundation. Principal Investigator, submitted December 1997. **\$120,000**

UNIVERSITY OF ILLINOIS

7. Microdialysis with Integrated Chemical Sensors. Campus Research Board (CRB). Co-Principal Investigator, submitted March 1996. **\$25,000**
8. Proposal to Establish a Computational Neuroscience Collaboratory at the University of Illinois at Chicago. Office of Neuroscience Coordination. Co-Investigator, February 1996. **\$1,045,238**
9. Miniature Integrated Chemical Analysis Instrumentation. National Science Foundation (NSF). Co-Principal Investigator, submitted January 1996. **\$483,412**
10. Gabapentin: Actions on Anticonvulsant Activity and Glutamate Disposition. AACP Young Investigators Award. Principal Investigator, submitted June 1995. **\$10,000**
11. Pharmacokinetics and Cerebral Hemodynamics of Acetazolamide. ACCP Research Institute, Bristol-Myers Squibb Central Nervous System Research Award. Principal Investigator, submitted February 1995. **\$10,000**
12. Pharmacokinetics and Cerebral Hemodynamics of Acetazolamide. AACP Young Investigators Award. Principal Investigator, submitted August 1994. **\$7,500**
13. The Effect of Felbamate on Caffeine Metabolism and Neurotoxicity. Wallace Laboratories. Principal Investigator, submitted July 1994. **\$60,097.50**

14. Pharmacokinetics and Cerebral Hemodynamics of I.V. Diamox[®]. Lederle Laboratories. Principal Investigator, submitted May 1994. **\$40,133.35**
15. Pharmacokinetics and Cerebral Hemodynamics of Acetazolamide. Tenth Annual Astra Clinical Pharmacy Research Award. Principal Investigator, submitted April 1994. **\$10,000**