

## Curriculum Vitae

**Name:** Miles Steven Evans, M.D., M.S.  
**Address:** Department of Neurology  
Room 113 HSC-A  
Louisville, KY 40292  
**Work tel.:** (502) 852-3285  
**Email:** [steve.evans@louisville.edu](mailto:steve.evans@louisville.edu) or [mail@msevans.com](mailto:mail@msevans.com)  
**Web:** [www.msevans.com](http://www.msevans.com)  
**Birthplace:** Jonesboro, Arkansas  
November 23, 1956  
**Marital Status:** Married May 15, 1982 to Jennifer Lynn Bryant  
**Children:** Eric, Richard  
**Education and Training:**  
1987-1989 Postdoctoral Fellow in Neuropharmacology  
Department of Neurology  
Washington University School of Medicine  
St. Louis, Missouri  
(National Research Service Award NS07205-06)  
1984-1987 Resident in Neurology  
Chief Resident in Neurology (July 1986 to July 1987)  
Department of Neurology  
Washington University School of Medicine  
1982-1983 Intern in Internal Medicine  
Department of Internal Medicine  
Barnes Hospital/Washington University School of Medicine  
1979-1984 M.S. in Physiology granted December 21, 1984  
Department of Physiology  
University of Louisville School of Medicine  
Louisville, Kentucky  
1978-1982 M.D. granted *cum laude* May 9, 1982  
University of Louisville School of Medicine  
1974-1978 B.A. in Psychology granted *cum laude* May 13, 1978  
University of Kentucky  
Lexington, Kentucky  
1971-1974 Tate's Creek Sr. High School  
Graduated *cum laude*, May 1974  
Lexington, Kentucky  
**Academic Appointments:**  
2012-2015 Neurology Residency Director  
University of Louisville  
2011-present Epilepsy Program Director  
University of Louisville  
2011-present Professor, Department of Neurology  
University of Louisville  
2010-2011 Neurology Clerkship Director  
Southern Illinois University School of Medicine  
Springfield, Illinois  
2010 Acting Chair, Department of Neurology

Southern Illinois University School of Medicine  
 Springfield, Illinois  
 2003-2011 Professor, Department of Neurology  
 Southern Illinois University School of Medicine  
 2003-2011 Professor, Dept. of Medical Microbiology/Immunology  
 Southern Illinois University School of Medicine  
 1997-2003 Associate Professor, Dept. of Medical Microbiology/Immunology  
 Southern Illinois University School of Medicine  
 1995-2003 Associate Professor with tenure, Department of Neurology  
 Southern Illinois University School of Medicine  
 1989-1995 Assistant Professor, Department of Neurology  
 Southern Illinois University School of Medicine  
 1987-1989 Research Instructor, Department of Neurology  
 Washington University School of Medicine  
 St. Louis, Missouri

**Hospital Appointments:**

2011-present Director of the Epilepsy and Neurophysiology Program at University of Louisville  
 Hospital and Jewish Hospital  
 2001-2011 Medical Director, Electroneurodiagnostic Laboratory, St. John's Hospital, Springfield,  
 Illinois  
 2001-2011 Medical Director, School of Electroneurodiagnostics, St. John's Hospital, Springfield,  
 Illinois  
 1999-2011 Chairman of Dept. of Neurology, Memorial Medical Center, Springfield, Illinois  
 2009-2010 Interim Director of Stroke, Memorial Medical Center, Springfield, Illinois

**Other Clinical Appointments:**

2005-2011 Clinical Director, Dept. of Neurology, Southern Ill. Univ. Sch. Med

**Medical Staff Appointments:**

2011-present University Hospital, Louisville, Kentucky  
 2011-present Jewish Hospital, Louisville, Kentucky  
 2012-present Louisville Veterans Administration Medical Center  
 1989-2011 Memorial Medical Center, Springfield, Illinois  
 1989-2011 St. John's Hospital, Springfield, Illinois  
 1989-2000 St. Vincent Memorial Hospital, Taylorville, Illinois  
 1987-1989 Barnes Hospital, St. Louis, Missouri  
 1987-1989 Jewish Hospital, St. Louis, Missouri  
 1987-1989 St. Louis Regional Medical Center, St. Louis, Missouri

**Medical Licensure:**

2011-present Medicine, Commonwealth of Kentucky (44631)  
 1984-present Physician and Surgeon, State of Illinois (036068480)  
 1983-1994 Physician and Surgeon, State of Missouri (R4D50)

**Awards and Honors:**

National Institute of Neurological Disorders and Stroke:  
 Clinical Investigator Development Award  
 FIRST Award

University of Louisville:  
 M.D. granted cum laude  
 Phi Kappa Phi All-University Honor Society  
 Barrett Scholarship recipient

University of Kentucky:  
 B.A. granted cum laude

Phi Beta Kappa  
Departmental Honors in Psychology  
University Honors Program  
Listed in: Who's Who in America  
(various editions) Who's Who in Medicine and Healthcare  
Who's Who in the World  
Who's Who in Science and Engineering

**Committees:**

*National:*

2001-2003 American Epilepsy Society, Scientific Program Committee

*University of Louisville*

2012-pres. Dept. of Neurology Tenure and Promotion Committee

2011-2013 Dept. of Neurology Executive Committee

2012 Pediatric Chair Review Committee

*Southern Illinois University School of Medicine:*

2007-2010 Conflict of Interest Committee

2005-2006 Laboratory Animal Medicine Director Search Committee

2005-2006 Pharmacology Faculty Search Committee

2003-2011 Misconduct in Science Committee

2002-2009 Research Policy Committee

2006 Research Policy Committee, subcommittee on medical student research

2006 Research Policy Committee, subcommittee on SCRIHS review (chair)

2006-2007 Research Policy Committee, subcommittee on Clinical Scholars program

2007-2008 Policy Committee, subcommittee on Clinical Research

2003-2009 Clinical Director, Year Two Neuromuscular Curriculum

2002 HIPAA Compliance Committee

2002 Patriot Act Compliance Committee

2002-2003 Clinical Advisor, Year Two Curriculum Committee

2002 Radiology Chairperson Search Committee

2001-2002 Chairman, Department of Neurology Tenure and Promotion Committee

2001 Internal Review Committee, Department of Pharmacology

2000-2001 Information Management Policy Committee

1999-2000 Curriculum 2000: Basic Science Streamer

1999-2000 Curriculum 2000: Sophomore Neuroscience Curriculum

1999-2000 Curriculum 2000: Professional Enrichment Curriculum

1995-1996 Executive Committee

1995-1996 Secretary of Faculty Council

1994-1996 Faculty Council

1993-1997 Research Policy Advisory Committee

1993-1994 Vice-Chairman, Research Policy Advisory Committee

1994-1996 Chairman, *ad hoc* Committee on "Research in the Era of Managed Care"

1992-2002 Central Research Committee

1992, 1994 Chairman, *ad hoc* Committee for Research Initiative Program Grants Review

1989-1992 Laboratory Animal Care and Use Committee

*SIU Healthcare:*

2005-2011 Practice Development Committee

2000-2008 Risk Management Review Council

1997 Fringe Benefits Committee

*Other committees:*

1999-2011 Department Chairs Committee, Memorial Medical Center, Springfield, Illinois  
1996-1998 Chairman, Springfield Committee for Research in Human Subjects  
1995 Vice-Chairman, Springfield Committee for Research in Human Subjects  
1993-1998 Springfield Committee for Research in Human Subjects  
1993-1977 Epilepsy Association of Lincoln Land Board of Directors  
1995-1977 Chairman of Program Work Group Epilepsy Assoc. of Lincoln Land  
1990-1994 Lincoln Land Epilepsy Association Professional Advisory Board  
1986-1987 Pharmacy and Therapeutics Committee, Barnes Hospital, St. Louis, Missouri  
1986 Neurology Resident Selection Committee, Washington University School of Medicine

**Membership:**

1996-present Central Society for Neurological Research  
1990-present American Epilepsy Society  
1990-present Society for Neuroscience  
1984-present American Academy of Neurology  
1978-present Phi Beta Kappa

**Certifications:**

1988-present Diplomate, American Board of Psychiatry and Neurology  
1996-present Clinical Neurophysiology, American Board of Psychiatry and Neurology  
1983 Diplomate, National Board of Medical Examiners

**Students and Postdoctoral Fellows at University of Louisville:**

*Clinical Neurophysiology Fellows, Dept. of Neurology*

2014-2015 David Moore  
2011-2012 Vijayamala Bondugula  
2011-2012 Malika Nellore

*Medical Students*

2013-2016 Anita M. Fletcher  
2015 Matthew Gayhart  
2012 Eric D. Emberton

*Medical Students*

2013-2015 G. Benton Maglinger

*High School Students*

2012-2013 Alekya Veldhi  
2012 Swati Vanaparthi

**Students at University of Illinois, Springfield**

*M.S. Thesis Advisor, member of graduate committee*

2014-2015 Hillary G. Rikli, Dept. of Biology

**Students and Postdoctoral Fellows at SIU School of Medicine:**

*Ph.D. Major Advisor*

2007-2009 Stephen R. Johnson, Dept. of Pharmacology

*Ph.D. Thesis Advisor, member of graduate committee*

2008-2013 Mruvil Abooj, Dept. of Pharmacology  
2008-2012 Vijaya Samineni, Dept. of Pharmacology  
2006-2009 Joseph Jeffry, Dept. of Pharmacology  
2006-2008 Kyle Montgomery, Dept. of Pharmacology  
2005-2007 Parul Sikand, Dept. of Pharmacology  
2003-2006 Mansoor Mozayan, Dept. of Pharmacology  
2001-2003 Manish Raisinghani, Dept. of Pharmacology

2001-2004 Vikram Jadhav, Dept. of Pharmacology  
2001-2004 Sandeep Pingle, Dept. of Pharmacology  
1999-2002 Hua-Jun Feng, Doctoral student, Dept. of Pharmacology  
1998-2000 Jie Liu, Doctoral student, Dept. of Pharmacology  
1994-1997 Yang Li, M.D., Doctoral student, Dept. of Pharmacology  
1992-1994 Mary Ford, Doctoral student, Dept. of Pharmacology

*Masters Thesis Major Advisor*

1996-1997 Melissa Collings, M.A., Dept. of Microbiology  
1991-1993 Kimberly Viola-McCabe, Sangamon State University

*Masters Thesis Advisor, member of graduate committee*

2002 Jigisha Patel, Dept. of Microbiology

*Epilepsy/Clinical Neurophysiology Postdoctoral Fellows*

2006-2008 Lidia Brown, M.D.  
2006-2008 Lidia Brown, M.D.  
2005-2006 Yen-Yi Peng, M.D.  
2000-2001 Sophia Ahmed, M.D.  
1998-2000 Sajjad Mueed, M.D.  
1997-1998 Kazi Majeed, M.D. and Iwona Sobcek, M.D.  
1996-1997 Awais Riaz, M.D., Ph.D.  
1995-1996 Nancy Teresa Rodgers-Neame, M.D.  
1994-1995 Jayantibhai Patel, M.D.

*Research Associate*

2006-pres. Xiangying Cheng, Dept. of Neurology

*Research Postdoctoral Fellows*

1999-2004 Lily Yang, Ph.D., Postdoctoral Fellow, Dept. of Pharmacology  
2000-2004 Cheng Long, Ph.D., Postdoctoral Fellow, Dept. of Pharmacology  
1998-2002 Craig Cady, Ph.D., Postdoctoral Fellow, Dept. of Neurology  
1991-1996 Suneeta Verma-Ahuja, Ph.D., Postdoctoral Fellow, Division of Neurosurgery  
1992-1994 Yang Li, M.D., Postdoctoral Fellow, Dept. of Pharmacology

*Neurology Residents*

2009-2011 Valeriy Sabodash  
2010-2011 Amita Singh  
2005-2006 Ziad Alaani

*Medical Students*

2007 Kathy Lynch  
2006-8 John Yost

*Undergraduates*

1995 Meeta Jain, University of Illinois

*High School Students (Summer High School Student Program)*

1995 Huma Mohsin  
1994 Bryan Clay  
1992 Jill Pan

**Ad Hoc Reviewer:**

Epilepsia, Epilepsy Research, Neuroscience Letters, Neurobiology of Aging, Neuroscience, Experimental Neurology, Brain Research, Neurotoxicology, Journal of Neurophysiology, Neuroepidemiology, Journal of Neural Engineering, Journal of Alzheimer Disease, Medical Principles and Practice, PLOS One

**Research Support:**

*Principal Investigator:*

2009-2010 Hematopoietic Stem Cells in the Triple Transgenic Alzheimer Mouse Model. Southern Illinois University Center for Alzheimers and Related Disorders.

2008-2011 SP902/904: A Historical-Controlled, Multicenter Double Blind Randomized Trial to Assess the Efficacy and Safety of Conversion to Lacosamide 400 mg/day Monotherapy in Subjects with Partial Onset Seizures (UCB Pharma).

2009-2011 093-045: Double-Blind, Randomized, Historical Control Study of the Safety and Efficacy of Eslicarbazepine Acetate Monotherapy in Subjects with Partial Epilepsy Not Well Controlled by Current Antiepileptic Drugs (Sepracor).

2009-2011 PROSPER: Prospective, Randomized Study of OXC XR in Subjects with Partial Epilepsy Refractory (Supernus Pharmaceuticals).

2006-2011 Rufinamide for Treatment of Partial Onset Seizures

2008-2011 Talampanel Treatment Protocol: Single Patient IND

2009-2011 Pilot Study of Flax Seed Oil for Partial Onset Seizures

2007-2009 Diagnostic Use of Human Neurons Derived from Bone Marrow Stem Cells". Illinois Regenerative Medicine Institute.

2004-2007 SP754/SP756: A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Trial to Investigate the Efficacy and Safety of SPM927 (400 and 600 mg/day) as Adjunctive Therapy in Subject with Partial Seizures with or without Secondary Generalization (Schwartz Biosciences)

2007-2008 Serotonergic (5HT) Modulation of Trigeminal Neurons through TRPV1, Southern Illinois University School of Medicine Central Research Committee Award.

2004-2005 Brief Epileptic Seizures and GABAA Receptor Plasticity, Southern Illinois University School of Medicine, Excellence in Academic Medicine Award.

2003-2005 LAM40112: Double-Blind Randomized Trial of Cognitive Effects of Lamictal (lamotrigine) versus Topiramate in Epilepsy (GlaxoSmithKline)

2003-2004 Mechanism of Benzodiazepine Inhibition of Voltage-Sensitive Calcium Channels

2002-2003 Midazolam Inhibition of Voltage-Sensitive Calcium Currents, Southern Illinois University School of Medicine Central Research Committee.

2000-2001 Recurrent Seizures: Plasticity of Synaptic Inhibition. Southern Illinois University School of Medicine, Excellence in Academic Medicine Award.

2001-2002 Recurrent Seizures: Ion Channel Plasticity. Southern Illinois University School of Medicine, Excellence in Academic Medicine Award.

1996-2001 Benzodiazepine Modulation of Long-Term Potentiation. NINDS, First Independent Research and Transition Award (FIRST Award R29 NS34564-01A1) 7/01/96-6/30/01.

1998-1999 Calcium Channels in Hippocampal EPSP-Spike Potentiation. Southern Illinois University School of Medicine Central Research Committee.

1991-1996 Amino Acid Neurotransmission in the Epilepsy-Prone Rat. NINDS, Clinical Investigator Development Award (CIDA, 1K08 NS01503) 7/01/91-6/30/96.

1992-1994 Role of Calcium Channels in Seizure Predisposition. Research Initiative Grant, Southern Illinois University School of Medicine.

1989-1993 Monotherapy Comparison of Felbamate and Valproate in Partial Seizures. Wallace Laboratories.

1989-1993 A Multicenter, Open-Label, Long-Term Evaluation of the Safety of Felbamate in Subjects with Epilepsy. Wallace Laboratories.

1989-1993 Open-Label, Follow-On, Long-Term Felbamate Therapy in Adult Subjects. Wallace Laboratories.

1992-1993 Benzodiazepine Modulation of Long-Term Potentiation. National Institute on Aging (Alzheimer Disease Center Core Grant, grant # P30 AG08014) 5/01/92-4/30/93.

1990-1992 Amino Acid Neurotransmission in the Epilepsy-Prone Rat. Southern Illinois University Central Research Committee.

*Co-investigator*

- 2010-2012 A Novel Approach for Chronic Pain Treatment Using Resiniferatoxin. Southern Illinois University School of Medicine, NIH NINDS, Louis Premkumar, P.I.
- 2011-2011 BIAL 2093-304: Multicenter, Double-Blind, Randomized, Placebo-Controlled, Three-Arm, Parallel Group Study to Evaluate the Efficacy and Safety of Oxcarbazepine Extended-Release (OXC XR) (1200mg/day, and 2400mg/day) as Adjunctive Therapy in Subjects with Refractory Partial Seizures due to Epilepsy on up to Three Concomitant Antiepileptic Medications. (Sunovion, formerly Sepracor). Yen-Yi Peng, P.I.
- 2011-2011 K826-05-3001: A Phase 3, Randomized, Double-Blind, Parallel, Placebo-Controlled, Multicenter Study, with optional Open-Label Continuation, of the Efficacy and Safety of Vanquix™ Auto-Injector (Diazepam Injection) for the Management of Selected, Refractory, Patients with Epilepsy who Require Intermittent Medical Intervention to Control Episodes of Acute Repetitive Seizures. (King Pharmaceuticals) Yen-Yi Peng, P.I.
- 2011-2011 13181A: Open-Label Study to Assess the Safety and Tolerability of Intravenous Carbamazepine as Short-Term Replacement for Oral carbamazepine in Adult Patients with Epilepsy. (Lundbeck) Yen-Yi Peng, P.I.
- 2011-2011 A0081194A: Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multi-Center Trial of Pregabalin Controlled Release Formulation as Adjunctive Therapy in Adults with Partial Onset Seizures. (Pfizer) Yen-Yi Peng, P.I.
- 2009-2010 A Novel Approach for Chronic Pain Treatment Using Resiniferatoxin. Southern Illinois University School of Medicine, SIU Excellence in Academic Medicine Near-Miss Award, Louis Premkumar, P.I.
- 2009 Aldo-keto Reductase Family 1 B10 (AKR1B10) Levels in Human Serum. Deliang Cao, M.D., Ph.D., SIU Cancer Center.
- 2006-2007 A Novel Approach for Chronic Pain Treatment Using Resiniferatoxin. Southern Illinois University School of Medicine, Excellence in Academic Medicine Award, Louis Premkumar, P.I.
- 2002-2006 Cerebral Vascular Nitric Oxidergic Innervation, NIH R01, Tony J-F Lee P.I.
- 2000-2006 Clinical trials of Talampanel, an anticonvulsant, sponsored by IVAX Research, Dean Naritoku P.I.
- 2005-2006 Clinical trials of Seletacetam, an anticonvulsant, sponsored by UCB Pharma, Dean Naritoku P.I.
- 1998-2005 Integrative Neurobiology of Alcohol Withdrawal Seizures, NIH AA11628-02, Carl L. Faingold, P.I.
- 2001-2003 Estrogen Effects on Olfactory Bulb Synaptic Structure: In Vivo and in Vitro Studies, Southern Illinois University School of Medicine, Excellence in Academic Medicine Award, Robert Struble P.I.
- 2000-2004 Clinical trials of Pregabalin, an anticonvulsant, sponsored by Pfizer, Dean Naritoku, P.I.
- 2000-2001 Inhibition of iNOS expression by a natural product, Oroxylin A. Excellence in Academic Medicine Grant E000-08, F J-F Lee P.I.
- 1994-1998 Phase III clinical trials of Losigimone, an anticonvulsant, sponsored by Schwabe, Dean Naritoku P.I.
- 1993-1999 Phase III clinical trials of Zonisamide, an anticonvulsant, sponsored by Dainippon Pharmaceuticals, Dean Naritoku P.I.
- 1992-1998 Clinical trials of vagus nerve stimulation for epilepsy, sponsored by Cyberonics, Dean Naritoku P.I.
- 1993-1998 Phase III clinical trials of Tiagabine, an anticonvulsant, sponsored by Abbott Laboratories, Dean Naritoku P.I.
- 1988-1997 Phase III clinical trials of Topirimate, an anticonvulsant, sponsored by McNeil

- 1992-1997 Pharmaceuticals, Dean Naritoku P.I.  
Phase III clinical trials of Gabapentin, an anticonvulsant, sponsored by Parke-Davis Co., Dean Naritoku P.I.
- 1992 Flow Cytometer with Cell Sorting Capability, Section Author/Co-investigator, Ram P. Tewari, Ph.D., D.V.M., Principal Investigator, BRS Shared Instrumentation Grant, National Institute of Health, 1 S10 RR07347-01.
- 1989 IV Nimodipine Stroke Trial, sponsored by Miles Laboratories, James R. Couch P.I.
- 1988-1989 Role of NMDA Receptors in Long Term Potentiation, McDonnell Center for Study of Higher Brain Function, Co-investigator, Charles F. Zorumski P.I.

**Other Experience:**

- 2016 Course Director, Late Winter Epilepsy Symposium, University of Louisville
- 1992-2011 Course Director, Neuroscience Review Course, Department of Neurology, Southern Illinois University School of Medicine
- 1992-2011 Course Director, MSIII and MSIV Neurology Research Electives, Department of Neurology, Southern Illinois University School of Medicine
- 1996 Course Director, 14th Annual Neurology Symposium, Southern Illinois University School of Medicine ("Quality Neurologic Care in a Managed Care Environment")
- 1994-5 President, Society for Neuroscience of Sangamon County
- 1993-4 Program Director, Society for Neuroscience of Sangamon County
- 1991 Course Director, Ninth Annual Neurology Symposium, Southern Illinois University School of Medicine ("Neuroimmunology")
- 1989 Epilepsy Mini-Fellowship, organized by Dr. J. K. Penry, Wake Forest University, Winston-Salem, North Carolina
- 1988 Phase II clinical trial of Tc-99m-labelled SQ 32097, a radiopharmaceutical for the evaluation of regional cerebral blood flow in stroke. With Henry D. Royal, M.D., Division of Nuclear Medicine, Mallinckrodt Institute of Radiology, St. Louis, Missouri
- 1987-1988 Attending Physician, Neurology Services of Barnes Hospital and St. Louis Regional Hospital, St. Louis, Missouri
- 1983-1984 Emergency Department Physician, various St. Louis Hospitals.
- 1979-1981 Summer Research Scholarships, University of Louisville School of Medicine, Department of Physiology and Biophysics

**Masters Thesis:**

1. Evans MS, Sharp JB Jr., and Reid KH: Dimethylsulfoxide blocks C fibers reversibly in cat cutaneous (sural) nerve. Masters thesis, 1984.

**Book Chapters and Reviews:**

1. Evans MS: Overview of actions of antiepileptic drugs on repetitive neuronal firing mechanisms. Chapter 4 in: Faingold CL, Fromm G (eds.) Drugs for the Control of Epilepsy: Actions on Neuronal Networks Involved in Seizure Disorders, CRC Press, pp. 69-88, 1991.
2. Lee TJF, Liu J, Evans MS: Cholinergic-nitrgic transmitter mechanisms in the cerebral circulation. Microscopy Research and Technique 53(2), p119-28, 2001.
3. Lee, T. J.-F., Liu, J. and Evans, M. S.: Cholinergic mechanism in cerebral neurogenic vasodilation (review). Proceedings of the 10th Symposium on higher brain function deficit. Tokyo, Japan. ISSN 1344-6851, p51-56, 1999.



4. Evans MS. The ionic mechanism of GABA and GABAA receptor regulation of stem cell proliferation and differentiation. *Cellscience Reviews* 5(1), 2008.
5. Faingold CL, Evans MS: Pathophysiology of Generalized Tonic-Clonic Seizures. In: Atlas of the Epilepsies (Tomis Panayiotopoulos, Ed.), Springer, Heidelberg, 2010.

**Original Peer-Reviewed Articles:**

1. Evans MS, Zorumski CF, and Clifford DB: Lithium enhances neuronal muscarinic excitation by presynaptic facilitation. *Neuroscience* 38, pp. 457-468, 1990.
2. Evans MS, Reid KH, and Sharp Jr JB: Dimethylsulfoxide (DMSO) Blocks conduction in peripheral nerve C fibers: A possible mechanism of analgesia. *Neuroscience Letters* 150, pp. 145-148, 1993.
3. Li Y, Evans MS, and Faingold CL: Inferior colliculus neuronal membrane and synaptic properties in genetically epilepsy-prone rats. *Brain Research* 660, pp. 232-240, 1994.
4. Evans MS, Viola-McCabe KE, Caspary DM, and Faingold CL: Loss of synaptic inhibition during repetitive stimulation in genetically epilepsy-prone rats (GEPR). *Epilepsy Research* 18, pp. 97-105, 1994.
5. Verma-Ahuja S, Evans MS, Pencek TL: Evidence for decreased calcium-dependent potassium conductance in hippocampal CA3 neurons of genetically epilepsy-prone rats. *Epilepsy Research* 22: 137-144, 1995.
6. Evans MS, Naritoku DK, Couch JR, and Ghobrial MW: Dihydroergotamine (DHE)-induced stroke in a patient with sagittal sinus thrombosis. *Clinical Neuropharmacology* 19, pp. 177-184, 1996.
7. Evans MS and Viola-McCabe KE: Midazolam inhibits long-term potentiation through modulation of GABAA receptors. *Neuropharmacology* 35: 123-134, 1996.
8. Campbell KCM, Naritoku DK, Evans MS, Hughes LF, and Rybak LP: Is valproic acid ototoxic? *American Journal of Audiology* 5: 7-10, 1996.
9. Evans MS, Collings MA, Brewer GJ: Electrophysiology of embryonic, adult, and aged rat hippocampal neurons in serum-free culture. *Journal of Neuroscience Methods* 79: 37-46, 1998.
10. Verma-Ahuja S., Evans MS, Espinosa J: Evidence of increased excitability in GEPR hippocampus preceding development of seizure susceptibility. *Epilepsy Research* 31: 161-173, 1998.
11. Li Y, Evans MS, Faingold CF: A comparison of the electrophysiological properties of neurons in three subnuclei of rat inferior colliculus in vitro. *Hearing Research* 121: 1-10, 1998.
12. Collings MA, Brewer GJ, Evans MS: Calcium currents of embryonic and adult neurons in serum-free culture. *Brain Research Bulletin* 48(1):73-8, 1999.
13. Kaufmann RC, Smith T, Bochantin T, Khardori R, Evans MS, Steahly L: Failure to obtain follow-up testing for gestational diabetics in a rural population. *Obstetrics and Gynecology* 93(5): 734-737, 1999.
14. Li Y, Evans MS, Faingold CF: Synaptic response patterns of neurons in cortex of rat inferior colliculus. *Hearing Research* 137: 15-28, 1999.
15. Liu J, Evans MS, Brewer GJ, Lee TJ-F: N-type Ca<sup>2+</sup> channels in cultured rat sphenopalatine ganglion neurons: an immunohistochemical and electrophysiological study. *J. of Cerebral Blood Flow and Metabolism* 20:183-91, 2000.
16. Evans MS, Li Y, Faingold CL: Inferior colliculus intracellular response abnormalities in vitro associated with susceptibility to ethanol withdrawal seizures. *Alcohol Clin. Exp. Res.* 24:1180-6, 2000.

17. Faingold C, Li Y, Evans MS: Decreased GABA and increased glutamate receptor-mediated activity on inferior colliculus neurons in vitro are associated with susceptibility to ethanol withdrawal seizures. *Brain Research* 868:287-95, 2000.
18. Viel JJ, McManus DQ, Cady CJ, Evans MS, Brewer GJ: Temperature and time interval for culture of postmortem neurons from adult rat cortex. *J Neurosci. Res.* 64:311-21, 2001.
19. Cady C, Evans MS, Brewer GJ: Age-related differences in NMDA responses in cultured rat hippocampal neurons. *Brain Research* 921: 1-11, 2001.
20. Liu J, Evans MS, Lee TJ: Presynaptic muscarinic M(2)-receptor-mediated inhibition of N-type Ca(2+) channels in cultured sphenopalatine ganglion: direct evidence for acetylcholine inhibition of cerebral nitrenergic neurogenic vasodilation. *J. of Pharmacology and Experimental Therapeutics* 302:397-405, 2002.
21. Yang L, Long C, Evans MS, Faingold C: Ethanol withdrawal results in aberrant membrane properties and synaptic responses in periaqueductal gray neurons associated with seizure susceptibility. *Brain Research* 957(1):99-108, 2002.
22. Hord ED, Evans MS, Mueed S, Adamolekun B, Naritoku DK: The effect of vagus nerve stimulation on migraines. *J Pain* 4:530-4, 2003.
23. Evans MS, Verma-Ahuja S, Naritoku DK, Espinosa JA: Intraoperative human vagus nerve compound action potentials. *Acta Neurologica Scandinavica* 110(4):232-8, 2004.
24. Sun LY, Evans MS, Hsieh J, Panici J, Bartke A: Increased neurogenesis in dentate gyrus of long-lived Ames dwarf mice. *Endocrinology* 146: 1138-1144, 2005.
25. Long C, Chen M-F, Sarwinski S, Chen P-Y, Si M, Hoffer, BJ, Evans MS, Lee TJF: Monoamine oxidase inhibitors block alpha7-nAChR-mediated cerebral nitrenergic neurogenic vasodilation. *Am J Physiol Heart Circ Physiol.* 291(1):H202-9, 2006.
26. Evans MS, Cady CJ, Disney KE, Yang L, LaGuardia JJ: Three brief epileptic seizures reduce inhibitory synaptic currents, GABAA currents, and GABAA receptor subunits. *Epilepsia* 47: 1655-64, 2006.
27. Blum D, Meador K, Biton V, et al. (Study Group) Cognitive effects of lamotrigine compared with topiramate in patients with epilepsy. *Neurology* 67(3):400-6, 2006.
28. Long C, Yang L, Faingold CL, Steven Evans M: Excitatory amino acid receptor-mediated responses in periaqueductal gray neurons are increased during ethanol withdrawal. *Neuropharmacology* 52(3):802-11, 2007.
29. Jeffry JA, Yu SQ, Sikand P, Parihar A, Evans MS, Premkumar LS: Selective targeting of TRPV1 expressing sensory nerve terminals in the spinal cord for long lasting analgesia. *PLoS One* 4(9): e7021, 2009.
30. Chung S, Sperling MR, Biton V, Krauss G, Hebert D, et al. (Study Group): Lacosamide as adjunctive therapy for partial-onset seizures: a randomized controlled trial. *Epilepsia* 51(6):958-67, 2010.
31. Johnson SR, Copello JA, Evans MS, Suarez AV: A biochemical characterization of the major peptides from the Venom of the giant neotropical hunting ant *Dinoponera australis*. *Toxicon* 55(4):702-10, 2010.
32. Raisinghani M, Jeffry JA, Evans MS and Premkumar LS: Activation characteristics of transient receptor potential ankyrin 1 and its role in nociception. *American Journal of Physiology* 301(3):C587-600, 2011.

33. Evans MS, Cheng X, Jeffry JA, Disney KE and Premkumar LS. Sumatriptan inhibits TRPV1 channels in trigeminal neurons. *Headache* 52(5): 773-84, 2012.
34. Wechsler RT, Li G, French J, O'Brien TJ, et al. (Study Group): Conversion to lacosamide monotherapy in the treatment of focal epilepsy: results from a historical-controlled, multicenter, double-blind study. *Epilepsia* 55(7):1088-98, 2014.
35. French JA, Baroldi P, Brittain ST, Johnson JK (Collaborator): Efficacy and safety of extended-release oxcarbazepine (Oxtellar XR) as adjunctive therapy in patients with refractory partial-onset seizures: a randomized controlled trial. *Acta Neurol Scand.* 129(3):143-53, 2014.
36. Bonda C, Evans MS: Metronidazole CNS toxicity. *Acta Neurol Belg.*, 115(4): 709-710, 2015.
37. Evans MS, Maglinger GB, Fletcher AM, Johnson SR: Benzonatate inhibition of voltage-gated sodium currents. *Neuropharmacology*, 101, 179-184, 2015.
38. Johnson SR, Rikli HG, Schmidt JO, Evans MS: A reexamination of poneratoxin from the venom of the bullet ant *Paraponera clavata*. *Peptides*, 2016.
39. Sagi V, Evans MS: Relationship between high-frequency oscillations and spikes in a case of temporal lobe epilepsy. *Epilepsy & Behavior Case Reports*, 6, 10-12, 2016.

#### **Abstracts:**

1. Evans MS, Sharp JB Jr., and Reid KH: Behavioral effects of intraventricular injection of sodium lithocholate in rats. Poster presentation, University of Louisville Annual Research Day, 1979.
2. Reid KH, Evans MS, and Sharp JB Jr.: Analgesic-like effects of dimethyl sulfoxide on C fiber activity in the cat: Evidence for more than one mechanism of action. *Soc. Neurosci. Abstr.*, p. 8, 1982.
3. Evans MS, Zorumski CF, and Clifford DB: Lithium enhances pilocarpine-produced epileptiform activity by presynaptic facilitation. *Soc. Neurosci. Abstr.* 14, 1094, 1988.
4. Evans MS, Clifford DB, and Zorumski CF: Lithium facilitation of synaptic transmission depends on protein kinase C. *Soc. Neurosci. Abstr.* 15, p. 850, 1989.
5. Somani SM, Babu SR, Americ SP, Dube SN, and Evans MS: Effect of physostigmine and exercise on cholineacetyltransferase and acetylcholinesterase activities in brain regions of rat. *Soc. Neurosci. Abstr.* 16, p. 1056, 1990.
6. Pencek TL, Pearson DH, Wilham C, and Evans MS: Upward displacement of primary motor cortex by primary brain tumor. The Second Cleveland Clinic International Epilepsy Symposium on Surgery of Epilepsy, 1990.
7. Pencek TL, Evans MS, Elmore T, Moran M, and Wilham C: Increased paired pulse facilitation in genetically epilepsy-prone rat. Congress of Neurological Surgeons, 1991.
8. Evans MS, McCabe KE, Caspary DM, Faingold CL, Kalita S, and Pencek TL: Paired pulse facilitation is increased in genetically epilepsy-prone rate (GEPR) hippocampus. *Neurology* 41 (suppl. 1), p. 404, 1991.
9. Evans MS, McCabe KE, Faingold CL, and Caspary DM: Repetitive synaptic stimulation evokes increased excitatory responses in genetically epilepsy-prone rat hippocampus. *Epilepsia* 32 suppl. 3, p. 41, 1991.
10. Naritoku DK, Campbell K, Evans MS, and Hughes L: Does valproate administration alter auditory threshold? *Epilepsia* 33 suppl. 3, p. 109, 1993.
11. Evans MS, McCabe KE, Faingold CL, and Caspary DM: Responses to GABA are not altered in genetically epilepsy-prone rat hippocampus. *Epilepsia* 33 suppl. 3, p. 40, 1993.

12. Campbell KCM, Evans MS, Naritoku DK, and Hughes LF: Is valproic acid ototoxic? Association for Research in Otolaryngology, p. 144, 1993.
13. Naritoku DK, Beckman SL, and Evans MS: GABAA receptor efficacy is reduced in the cerebral cortex of the genetically epilepsy-prone rat (GEPR-9). Soc. for Neurosci. Abstr. 19, p. 608, 1993.
14. Li Y, Evans MS, and Faingold CL: Electrophysiological properties of rat inferior colliculus (IC) neurons in dorsal cortex and central nucleus in vitro. Soc. for Neurosci. Abstr. 19, p. 536, 1993.
15. Evans MS and McCabe KE: Benzodiazepine modulation of long-term potentiation. *Epilepsia* 34 suppl. 6, p. 85, 1993.
16. Evans MS: Membrane and synaptic properties of genetically epilepsy-prone rat (GEPR) hippocampal neurons. *Epilepsia* 34 suppl. 6, p. 76, 1993.
17. Verma-Ahuja S, Pencek T, and Evans MS: Role of voltage-sensitive calcium channels in seizure susceptibility in genetically epilepsy-prone rats. *Epilepsia* 34 suppl. 6, p. 57, 1993.
18. Pencek TL, Verma-Ahuja S, and Evans MS: Increased excitability of the hippocampal CA3 region in the genetically epilepsy-prone rats: role of calcium. *Epilepsia* 35 suppl. 8, p. 39, 1994.
19. Verma-Ahuja S, Evans MS, and Pencek TL: Membrane properties of CA3 hippocampal region in the genetically epilepsy-prone rats. Soc. for Neurosci. Abstr. 20, p. 1455, 1994.
20. Li Y, Evans MS, and Faingold CL: Inferior colliculus neuronal membrane and synaptic properties in genetically epilepsy-prone rats. Soc. for Neurosci. Abstr. 20, p. 404, 1994.
21. Li Y, Evans MS, Chakravarty DN, and Faingold CL: Comparison of electrophysiological properties of neurons in subnuclei of rat inferior colliculus in vitro. Soc. for Neurosci. Abstr. 21, p. 1962, 1995.
22. Verma-Ahuja S, Pencek TL, Evans MS: Properties of developing rat hippocampus CA1 neurons in the genetically epilepsy prone rats (GEPRs). Soc. for Neurosci. Abstr. 21, p. 1967, 1995.
23. Pencek TL, Verma-Ahuja S, Evans MS: Development of hippocampal CA3 neurons in the genetically epilepsy-prone rats (GEPRs). *Epilepsia* 36 (suppl. 4), 1995.
24. Evans MS: Benzodiazepine receptor modulation of memory. Presented to the Central Society for Neurological Research, 1996.
25. Evans MS, and Brewer GJ: Functional characterization of adult rat hippocampal neurons in culture. Soc. for Neurosci. Abstr. 22, p. 1490, 1996.
26. Brewer GJ, and Evans MS: Regeneration and proliferation of hippocampal neurons in culture. Soc. for Neurosci. Abstr. 22, p. 1490, 1996.
27. Espinoza J, Evans MS, and Verma-Ahuja S: Reduced synaptic inhibition in the CA3 hippocampus of seizure sensitive Mongolian Gerbils. *Epilepsia* 37 suppl. 5, p. 68, 1996.
28. Evans MS: Calcium currents in embryonic and adult cultured neurons. Presented to the Central Society for Neurological Research, 9/13/97.
29. Collings MA, Evans MS, Brewer GJ: Calcium currents in embryonic hippocampal neurons are increased compared to juvenile adult hippocampal neurons in culture. Soc. for Neurosci. Abstr. 23, p. 1162, 1997.
30. Li Y, Evans MS, Faingold CL: Synaptic response patterns of rat inferior colliculus cortex neurons. Soc. for Neurosci. Abstr. 23, p. 735, 1997.
31. Faingold CL, Evans MS, Li Y: Decreased GABA-mediated neurotransmission in inferior colliculus neurons in vitro during ethanol withdrawal. Presented to Research Society on Alcoholism, 1998

meeting.

32. Faingold CL, Li Y, Evans MS: Diminished GABA-A receptor-mediated inhibition in the inferior colliculus may subserve audiogenic seizure susceptibility. *Epilepsia* 39 suppl. 6, p. 37, 1998.
33. Liu J, Evans M, Lee T.J.-F.: N-type Ca<sup>2+</sup> channels in cultured rat sphenopalatine ganglion neurons: an electrophysiological and morphological study. *Experimental Biology 99* (American Society for Pharmacology and Experimental Therapeutics), Washington D.C. 1999.
34. Liu J, Evans MS, Lee T.J.F.: Presynaptic M<sub>2</sub>-receptors mediate inhibition of N-type Ca<sup>2+</sup> channels in cerebral perivascular NO-ergic nerves. *Soc. for Neurosci. Abstr.* 25, p. 1504, 1999.
35. Cady C, Brewer G, Evans MS: Age related differences in NMDA responses in cultured rat hippocampal neurons. *Soc. for Neurosci. Abstr.* 25, p. , 1999.
36. Hord ED, Cady CJ, Evans MS: Midazolam decreases calcium currents in rat hippocampal neurons. *Soc. for Neurosci. Abstr.* 26, p. , 2000.
37. Cady C, Brewer G, Evans S, Struble R: Enhanced NMDA receptor function following the application of forskolin to cultured rat hippocampal neurons. *Soc. for Neurosci. Abstr.* 26, p. , 2000.
38. Long C, Yang L, Evans MS, Faingold CL: Ethanol withdrawal results in aberrant membrane properties and synaptic responses in periaqueductal gray neurons associated with seizure susceptibility. *Soc. for Neurosci. Abstr.* 26, p. , 2000.
39. Lee T J-F, Lie J, Evans MS: Cholinergic-nitric oxidergic innervation in cerebral arteries. *Taiwanese-American Neuroscientists Annual Meeting*, 2000.
40. Evans MS, Verma-Ahuja S, Espinosa J: Human vagus nerve compound action potentials recorded during implantation of a neurocybernetic prosthesis. *Epilepsia* 41 (suppl. 7), p. 103, 2000.
41. Long C, Yang L, Evans MS, Faingold C: NMDA and non-NMDA receptor-mediated excitatory postsynaptic potentials in periaqueductal gray neurons are increased during ethanol withdrawal. *Soc. for Neurosci. Abstr.* 27, 2001.
42. Hord D, Evans MS, Mueed S, Adamolekun B, Naritoku DK. Effect of vagus nerve stimulation on migraine headaches. *IASP 10th World Congress on Pain*, 2002.
43. Cady C, Disney K, Evans MS. Recurrent seizures reduce GABA currents in Genetically Epilepsy-Prone Rat (GEPR). *Soc. for Neurosci. Abstr.* 28, 2002.
44. Evans MS, Cady CJ, Disney KE, LaGuardia JJ. Reduced voltage-sensitive calcium currents in an animal model of epilepsy. *Epilepsia* 43 (suppl. 7), p 5, 2002.
45. Long C, Yang L, Evans MS, Faingold CL. Alteration of GABA receptor-mediated inhibition in periaqueductal gray neurons by ethanol withdrawal. *Soc. for Neurosci. Abstr.* 32, 2002.
46. Long C, Si ML, Sarwinski S, Chen M, Evans MS, Lee T. Imipramine, desipramine and fluoxetine inhibit choline-induced alpha7-nAChR-mediated cerebral nitreergic vasodilation. *Soc. for Neurosci. Abstr.* 33, 2003.
47. Evans MS, Casebeer DJ, Naritoku DK. Postictal GABA<sub>A</sub> receptor activation worsens subsequent seizures. *Epilepsia* 44 (suppl. 7), p17, 2004.
48. Cady C, Struble R, McAsey M, Disney K, Evans MS. Adult murine olfactory bulb neurons from primary cultures are responsive to glutamate and GABA. *Soc. for Neurosci. Abstr.* 34, 2004.
49. Jeffry J, Evans MS, Premkumar LS. Modulation of Synaptic Transmission at the Trigeminal Nucleus Caudalis by TRPV1. *17th Annual Trainee Research Symposium, SIU School of Medicine*, 2007.

50. Yost J, Evans MS. Immunohistochemical Detection of Voltage Gated Sodium Channels in Neuron-Transdifferentiated Bone Marrow Stem Cells. 17th Annual Trainee Research Symposium, SIU School of Medicine, 2007.
51. Lynch K, Evans MS. Wait Times and Patient Satisfaction in an Adult Neurology Clinic: The Impact of Residents. 17th Annual Trainee Research Symposium, SIU School of Medicine, 2007.
52. Jeffry JA, Evans S, Shuang QY, Premkumar LS. Modulation of synaptic transmission at the caudal spinal trigeminal nucleus: implications for migraine. Soc. for Neurosci. Abstr. 37, 2007.
53. Cheng X, Disney KE, Evans MS. Modulation of transient receptor potential vanilloid 1 (TRPV1) activity by serotonin receptors in rat trigeminal ganglion neurons. Soc. for Neurosci. Abstr. 37, 2007.
54. Lee TJF, Mozayan M, Chen MF, Chen PY, Lee HC, Tseng DY, Shih CC, Wu YC, Si ML, Premkumar LS, Evans MS. Cholinesterase inhibitor (CHEI) blockade and its prevention by statins of cerebral neurogenic vasodilation. 10th International Hong Kong/Springfield Pan-Asian Symposium on Advances in Alzheimer Therapy, 2008.
55. Jeffry JA, Evans MS, Premkumar LS. Modulation of synaptic transmission at the first sensory synapse of the caudal spinal trigeminal nucleus by TRPV1 and TRPA1. Soc. for Neurosci. Abstr. 38, 2008.
56. Yost JP, Resch DS, Evans MS. Circulation CD34+ hematopoietic stem cells increase after electroconvulsive therapy in patients with major depressive disorder. American Epilepsy Society 62nd Annual Meeting, 2008.
57. Cheng X, Disney KE, Evans MS. Bradykinin modulation of TRPV1 channels in trigeminal ganglion is calcium and protein kinase C (PKC) dependent. Soc. for Neurosci. Abstr. 38, 2008.
58. Evans MS. Bradykinin depolarization of trigeminal ganglion neurons requires TRPV1 channel activation. SIU Neuroscience Retreat, 2008
59. Jeffry JA, Evans MS and Premkumar LS. Anandamide enhances excitatory synaptic transmission in the spinal cord dorsal horn. Soc. for Neurosci. Abstr. 39, 2009.
60. Evans MS, Cheng X, Jeffry JA, Disney KE, Premkumar LS. TRPV1 and TRPA1 Channels in the Craniofacial Pain System. American Headache Society Annual Meeting, 2010.
61. Cheng X, Disney K, Evans MS. Possible Role of TRPA1 in Migraine Headache, SIU Neuroscience Retreat, 2010.
62. Emberton E, Veldhi A, Petruska J, Meyers SA, Magnuson DSK, Siu AS, Evans MS, Vaishnav RA. Transient receptor potential ankyrin 1 (TRPA1) expression in naïve dorsal root ganglia and uninjured and injured spinal cords. Research! Louisville 2012, 2012.
63. Veldhi A, Emberton E, Meyers S, Petruska J, Magnuson D, Siu AS, Evans MS, Vaishnav R. Role of 4-hydroxynonenal (4-HNE) in pain following spinal cord injury. Research! Louisville 2012, 2012.
64. Saaraswat T, Evans MS, Shafer C. Do spells just prior to formal video-EEG monitoring in an epilepsy monitoring unit predict psychogenic non-epileptic seizures? American Academy of Neurology Annual Meeting, 2013.
65. Veldhi AR, Emberton ED, Myers SA, Petruska J, Magnuson DS, Siu AS, Evans MS, Vaishnav RA. Role of 4-hydroxynonenal (HNE) in pain following spinal cord injury. University of Louisville Neuroscience Day, 2013.
66. Emberton ED, Veldhi A, Petruska J, Evans MS, Vaishnav RA. Transient receptor potential ankyrin 1 (TRPA1) expression in naïve dorsal root ganglia and naïve and injured spinal cords. 19th Annual

Kentucky Spinal Cord and Head Injury Research Trust Symposium, 2013.

67. Veldhi AR, Evans MS, Emberton ED, Myers SA, Siu AS, Magnuson DSK, Petruska J, Vaishnav RA. Role of 4-hydroxynonenal (4-HNE) in pain following spinal cord injury. 19th Annual Kentucky Spinal Cord and Head Injury Research Trust Symposium, 2013.
68. Fletcher AM, Boling W, Evans MS. Neural Stem Cell Therapy for Temporal Lobe Epilepsy. Research! Louisville 2013, 2013.
69. Evans MS, Maglinger B, Fletcher A, Johnson S. Benzonatate Inhibition of Voltage Sensitive Sodium Channels. Research! Louisville 2014, 2014.
70. Maglinger GB, Gayhart MG, Evans MS, Maglinger B. Polidocanol inhibits voltage-gated ion channels. Research! Louisville 2015, 2015.

## **Presentations:**

### Invited Speaker

- Dec 1, 2010 "Headache: Rational basis for management", IL Dept. Corrections.
- Nov 19, 2010 "Epilepsy in the Person with Developmental Disability" (Evaluation and Management Interactive Videoconference Series: Topics in Developmental Disabilities).
- Nov 8, 2010, "New Onset Seizures", Passavant Hospital.
- July 27, 2009 "Craniofacial pain and TRPV1", University of South Alabama, Mobile, AL.
- Nov 18, 2008 "Migraine and the Trigeminal Nerve", Tulane University, New Orleans, LA.
- Oct 20, 2008, "Migraine and the Trigeminal Nerve", Virginia Commonwealth University, Richmond, VA.
- Mar 18, 2006 "Clinical Use of Antiepileptic Drugs" and "Candidates for Surgery and VNS in the MRDD Population", to primary care physicians and pharmacists, Tahlequah, OK.
- Jul 18, 2005 "Rational Management of Migraine", to general public, Belleville IL YMCA
- Jan 12, 2005 "Migraine", to general public, Boeing Co., St. Louis, MO
- Jan 25, 2003 "Benzodiazepine Modulation of Long-Term Potentiation", SIU Dept. of Physiology
- Mar 25, 2002 "Understanding and Managing Adverse Effects of Antiepileptic Drugs" to local psychiatrists, Springfield, IL.
- Mar 13, 2002 "Women's Issues and Epilepsy", to local neurologists, Herrin, IL.
- Dec 12, 2001 "Women's Issues and Epilepsy", to local medical professionals, Springfield, IL.
- Mar 31, 1999 "Treatment of Epilepsy", to Family Practice residency, Urbana, IL.
- Sep 30, 1998 "Migraine: Rational Basis for Management", to medical staff St. Vincent's Hospital, Taylorville, IL.
- Jun 11, 1997 "Epilepsy in the Elderly", to Family Practice Residents, Quincy, IL.
- May 29, 1996 "Epilepsy", to Family Practice Residents, Quincy, IL.
- Jul 13, 1994 "Anticonvulsant Therapy", to Medical Staff of Veterans Administration Hospital, Marion, IL.
- Jan 22, 1992 "Synaptic Inhibition in Epilepsy-Prone Rats," to Department of Basic Sciences, University of Illinois College of Medicine at Peoria, Peoria, Illinois.
- Feb 6, 1989 "Modulation of Excitatory Synaptic Transmission by Lithium," to Department of Neurology, University of Colorado School of Medicine, Denver, Colorado.
- Jan 15, 1989 "Lithium-Pilocarpine Seizures," to Division of Neurology, SIU School of Medicine, Springfield, Illinois.

### C.M.E. Presentations

- July 17, 2012 "Frontal Lobe Epilepsy", Hopkinsville, Kentucky
- Oct 18, 2012, "Medical Management of Intractable Epilepsy", Jeffersonville, IN
- Nov 9, 2012, "Epilepsy: State of the Art in Medical and Surgical Treatment", Ashland, KY
- Oct 16, 2009 "Nocturnal Seizures", 1st Illinois Sleep Technologists Meeting, St. John's Hospital, Springfield, IL
- Mar 23, 2007 "Epilepsy", 25<sup>th</sup> Annual Neurology Symposium, SIU School of Medicine.
- Mar 19, 2004 "Epilepsy Case Conference", 22<sup>nd</sup> Annual Neurology Symposium, SIU School of Medicine.
- Mar 15, 2002 "Headache", 20th Annual Neurology Symposium, SIU School of Medicine.
- Mar 15, 2002 "Epilepsy and Pregnancy", 20th Annual Neurology Symposium, SIU School of Medicine.
- Mar 23, 2001 "Update on the New Anticonvulsants", 19th Annual Neurology Symposium, SIU School of Medicine.
- Mar 5, 1999 "Treatment of Epilepsy", 17th Annual Neurology Symposium, SIU School of Medicine.
- Mar 12, 1998 "Epilepsy and Antiepileptic Drugs", St. John's Hospital, Springfield, IL, part of "Medicine for Today",

sponsored by Illinois Academy of Family Physicians.

- Nov 4, 1997 "Status Epilepticus", St. James Hospital, Lincoln IL, sponsored by Illinois Academy of Family Physicians.
- Apr 4, 1997 "Common Sense Management of Neck and Back Pain", 15th Annual Neurology Symposium, SIU School of Medicine.
- Mar 22, 1996 "Managing Headache", 14th Annual Neurology Symposium, SIU School of Medicine.
- Mar 22, 1996 "Selected Seizures, with Outcomes", lunch workshop 14th Annual Neurology Symposium, SIU School of Medicine.
- Mar 24, 1995 "The First Seizure: Who Should be Treated?", 13th Annual Neurology Symposium, SIU School of Medicine.
- Mar 24, 1995 "Diagnosis of Nonepileptic Seizures", lunch workshop 13th Annual Neurology Symposium, SIU School of Medicine".
- Jun 21, 1994 "Late Onset Epilepsy." Neurogeriatrics Symposium, Mount Vernon, IL.
- Mar 25, 1994 "Late Onset Epilepsy." 12th Annual Neurology Symposium, SIU School of Medicine.
- Feb 1, 1994 "Epilepsy: Diagnosis and Treatment." Medical Staff Educational Meeting, Richland Hospital, Olney, IL.
- Dec 14, 1993 "Landmark Investigation of Felbamate in Epilepsy (L.I.F.E.), Clinician Investigator Conference." Springfield, IL.
- Nov 12, 1992 "Neurologic Effects of Bacterial Toxins." Infectious Disease Symposium, SIU School of Medicine.
- Oct 16, 1992 "EEG Studies in Focal Epilepsy." Illinois Society of EEG Technology Annual Meeting.
- Mar 15, 1991 "Myasthenia Gravis." Ninth Annual Neurology Symposium, SIU School of Medicine.
- Sep 6, 1990 "EEG in Diagnosis of Seizures." Illinois Society of EEG Technology Annual Meeting.
- Apr 6, 1990 "Classification of Seizures and Epilepsy Syndromes." Illinois Department of Mental Health and Developmental Disabilities, Physician Mini-Conference.
- May 30, 1990 "Current Approaches to the Diagnosis and Treatment of Epilepsy." Epilepsy Mini-Symposium, Bloomington, Illinois.
- May 16, 1990 "Current Approaches to the Diagnosis and Treatment of Epilepsy." Epilepsy Mini-Symposium, Taylorville, Illinois.
- May 16, 1990 "Basic Aspects of Epilepsy." Eighth Annual Neurology Symposium, SIU School of Medicine.
- Aug 16, 1989 (Decatur) and Sep 25, 1989 (Champaign), "Medical Aspects of Epilepsy." Illinois Department of Rehabilitation Services/Lincoln Land Epilepsy Association Training Seminars.

#### University of Louisville

##### *Neurology Residents, University of Louisville*

- 2016 "Coma and Brain Death", "CNS Infections", "The First Seizure"
- 2015 "Epilepsy: Classification, Features and Genetics", "Epilepsy: Antiepileptic Drugs", "Spinal Cord Emergencies", "Neurostimulation for Epilepsy", "CNS Infections", "Antiepileptic Drugs", "Epilepsy: Classification, Features and Genetics", "Epilepsy: Neuropathology and Mechanism", "Neurostimulation for Epilepsy", "Coma and Brain Death", "CNS Infections", "The First Seizure"
- 2014: "Spinal Cord Emergencies", "CNS Infections", "Epilepsy RITE Review", "Frontal Lobe Epilepsy", "Status Epilepticus", "AED Development", "Bioethics of Clinical Trials", "Surgery for Epilepsy", "Coma and Brain Death", "EEG Basics - Physiology and Montages"
- 2013: "The Pyramidal Motor System", "How to Build a Neuron", "Synaptic Transmission", "Epilepsy Diagnosis"
- 2012: "Coma and Brain Death", "CPT and ICD-9", "The Almighty Medicare RVU"
- 2011: "CNS Infections"

##### *Neurosurgery Residents, University of Louisville*

March 2014 and 2015 "EEG for Neurosurgeons"

##### *Medical Students, University of Louisville*

February 10, 2014 "SIGN Group"

##### *Neuroscience Grand Rounds, University of Louisville*

- August 6, 2015, "Neurostimulation for Epilepsy"
- August 7, 2014, "High Frequency Neuronal Oscillations in Epilepsy"
- August 15, 2013, "Dravet Syndrome" (with Dr. Karen Skjei)
- April 13, 2012 "Pain and TRP Channels"
- December 21, 2012 "Status Epilepticus: Rational Polypharmacy"



*Internal Medicine Grand Rounds, University of Louisville*  
Sept 21, 2012, "Recognition and Treatment of Seizures in the Elderly"

*Chairman's Rounds, University of Louisville Dept. of Neurology*  
Jan 25, 2012 "Episodic Ataxia"

*Medical Students, University of Louisville*  
2011-12 various dates, "Epilepsy" to MSIII and MSIV students

*SIU School of Medicine*

*Neurology Grand Rounds, SIU School of Medicine*

Sep 7, 2010 "CPC: Something in her Mind"  
Oct 19, 2010 "Nocturnal Seizures"  
Mar 9, 2010 "The Walking Pill"  
Oct 20, 2009 "TPA for Stroke: Update"  
Oct 13, 2009 "C.P.C.: 70 y/o Female Presenting with Paraparesis, Vision Loss, Confusion & Coma"  
Oct 6, 2008 "C.P.C.: New Onset Seizures in a 61 Year Old Female"  
Jan 29, 2008 "Opioid-Induced Hyperalgesia"  
Sep 18, 2007 "Allodynia in Migraine"  
Jan 16, 2007 "Surgery and VNS for Epilepsy"  
May 16, 2006 "Trigeminal Nerve Dysfunction and Migraine"  
Feb 7, 2006 "Bacterial Meningitis Update"  
Nov 29, 2005 "Hydrogen Peroxide"  
May 17, 2005 "Prognosis of Coma after Cardiac Arrest"  
Apr 5, 2005 "Management of the First Seizure"  
Jan 13, 2004 "Seizures Do Beget Seizures: GABA Receptor Mechanisms"  
Jul 9, 2002 "Why do Seizures Recur?"  
Mar 19, 2002 "Differential Diagnosis of Ptosis"  
Oct 2, 2001 "CPC: A 56 Year Old Woman with Headache and Seizures"  
Feb 5, 2001 "CPC: A Woman with Muscle Aches"  
Feb 1, 2000 "CPC: You Only Live Twice"  
Dec 1, 1998 "CPC: Sellar mass"  
Oct 13, 1998 "Potassium Channels in Epilepsy"  
Apr 7, 1998 "An HIV+ Man"  
Dec 2, 1997, "CPC: A Teenager Who Hears Voices"  
Oct 8, 1996 "Channelopathies: Diseases Affecting Ion Channels"  
Feb 6, 1996 "C.P.C.: A Man with Paraparesis"  
Oct 17, 1995 "Epilepsy Genes"  
Jan 3, 1995 "C.P.C. A Man with Paraparesis and Multiple Cranial Nerve Deficits"  
Nov 8, 1994 "Calcium Channels in Neurologic Disease"  
Apr 5, 1994 "C.P.C.: 46-Year Old Diabetic with Numbness and Weakness in the Lower Extremities"  
Oct 12, 1993 "Benzodiazepines: Current Concepts"  
Nov 2, 1993 "C.P.C.: A 61 Year Old Man With Subacute Weakness in the Lower Extremities"  
Mar 2, 1993 "C.P.C.: A Man with Focal Seizures and a Dura Mater Lesion"  
Dec 22, 1992 "Transient Global Amnesia"  
Aug 1992 "Acute Loss of Consciousness"  
Mar 1992 "C.P.C.: A Young Woman with Headache"  
Jan, 1992 "Epileptogenesis in a Rat Model of Epilepsy"  
Nov 1991 "Hepatic Encephalopathy"  
Aug 6, 1991 "Management of Meningitis and Encephalitis"  
Mar 19, 1991 "Status Epilepticus: Pathophysiology and Treatment"  
Apr 10, 1990 "Inhibition of Repetitive Firing as a Mechanism of Anticonvulsant Action"  
Feb 6, 1990 "Lithium Overdose"

*Neurologic Emergencies Review Course, SIU School of Medicine*

Sept 1, 2010 "Seizure Emergencies"

Aug 24, 1993 "CNS Infections"

Aug, 1992 and Jul 2002 "Coma"

*Clinical Neurophysiology Review Course, SIU School of Medicine*

Annually 1993-1996, 2001-2 "Generalized EEG Abnormalities"

Annually 1993-1996, 2001-2 "Coma and Brain Death"

Annually, 2001-2 "Drowsiness and sleep activation procedures"

*Neuroanatomy Review Course, SIU School of Medicine*

Jul 26, 1994 "Brainstem Anatomy"

*Neurology Basic Science Review, SIU School of Medicine*

1990-present Various topics, 4 to 10 times yearly

*Neurology Resident "Boot Camp", SIU School of Medicine*

Oct 2009 Series of three talks on CNS infections and spinal cord injury

*Internal Medicine Grand Rounds, SIU School of Medicine*

Nov 2, 2010 "PRES"

Mar 1992 "Stroke: Current and Future Therapy." Panel of speakers included Dr. Mark Goldberg, M.D. (Washington University) and Paul Rockey, M.D., M.P.H. (SIU-SM)

*Internal Medicine Residents' Lecture Series, SIU School of Medicine*

Feb 4, 2004 and Jun 25, 2004 "Seizure Disorders Board Review"

May 7, 1999 "Bioethics workshop" (Universal Issues in Medical Practice)

Mar 13, 1996 "Coma and Brain Death" (Board Review)

Jan 18, 1995 "Seizure Disorders" (Board Review)

Jul 11, 1994 "Seizures and Stroke" (Board Review)

Jan 15, 1992 "Autoimmune Disease of the Nervous System" (Board Review)

Yearly, 1990-2002 "Status Epilepticus" (Medical Emergencies)

*Neuropharmacology 574, SIU School of Medicine*

Bi-yearly, May 1991-2007 "Hippocampus as a Model in Neurobiology."

*Neurology Residents Journal Club*

Jan 2007 "Intracranial Hemorrhage"

Oct 14, 1998 "Riboflavin for treatment of migraine"

Feb 18, 1997 "Ibuprofen or acetaminophen for migraine in children"

Feb 20, 1996 "Vagus nerve stimulator"

Feb 21, 1995 "Aspartame and headache"

Jan 1994 "Beta-interferon"

May 1993 "DATATOP study"

*School of Electroneurodiagnostic Technology, St. John's Hospital*

1990-2006 "Headache", "Basal Ganglia", "CNS Infections"

*Medical Students, SIU School of Medicine*

2006-2011 "Visual Loss and Vertigo", MS IV Neurology (5 times yearly).

Feb 2011 "Wrap-up session: Myasthenia Gravis", MS II Neuromuscular and Behavior.

Feb 2005-2011 "Neurologic Exam of the Comatose Patient", MS II Neuromuscular and Behavior (annually).

Feb 2004-2007 "Wrap-up session: Headache", MS II Neuromuscular and Behavior (annually).

Jan 2004-2011 "Wrap-up session: Infections", MS II Neuromuscular and Behavior (annually).

Feb 2002-2011 "Wrap-up session: Epilepsy", MS II Neuromuscular and Behavior (annually).

2003-2006 "Central nervous system neoplasms" Senior Neurology rotation (5 times yearly).  
 2000-2006 "Central nervous system infections" Junior/senior Neurology rotation (5 times yearly).  
 May 1999-2006 "Ethics of clinical trials in medical research", Advanced Therapeutics Elective (yearly),  
 1998-2004 "Seizures" Sophomore ICM/integrated curriculum.  
 1994, 1997 "Approach to the patient with acute loss of consciousness" Sophomore I.C.M.  
 1995-1997 "Pharmacology of epilepsy and status epilepticus" Sophomore Pharmacology Course.  
 1996 "Headache" Sophomore I.C.M.  
 1994-1995 "The pharmacology of alcohol--patient problems" Sophomore Pharmacology Course (4 presentations).  
 1990-1993 "Seizures" Internal Medicine Rotation, presented quarterly.  
 1992, 1993 "Logic and components of the neurologic examination" Sophomore I.C.M.

Other

July 13, 2011, "Current Treatment of Epilepsy", to general public, Hilton Garden Inn, sponsored by Cyberonics, in association with Epilepsy Resource Center.  
 January 31, 2010 "Stroke", interviewed for WICS television feature.  
 Sep 1, 2009 "Conflict of Interest", Responsible Conduct of Research Series, SIU Associate Dean for Research  
 Sep 1, 2009 "Conflict of Interest", Responsible Conduct of Research Series, SIU Associate Dean for Research  
 Jun 3, 2008 Clinical Updates Conference in Mental Health & Developmental Disabilities, "Epilepsy" panel discussant, Prairie Capital Convention Center, Springfield IL.  
 Apr 25, 2007 Judge, 17<sup>th</sup> Annual Trainee Research Symposium  
 2008 Interview regarding stem cell research. State Journal Register  
 2008 Interview regarding telemedicine. Aspects magazine  
 Mar 17, 2006 "Membrane Neurophysiology Synaptic Function and AED Neuropharmacology", SIU Psychiatry residents.  
 Apr 14, 2005 Judge, SIU Combined Research Symposium  
 Apr 16, 2004 "Welcoming Remarks", new Student Open House, Southern Illinois Univ. School of Med.  
 Jul 2003 Tutor in SIU Grant Writing Workshop  
 May 3, 2001 "Emerging Issues in Anticonvulsant Therapy", sponsored by UCB Pharma.  
 Apr 14, 1999 and Apr 18, 2001, Judge for 1999 Combined Research Symposium SIU-SM.  
 Oct 14, 2000 "Third Millennium Medications for Epilepsy", presentation open to general public, sponsored by Epilepsy Resource Center, a division of SPARC.  
 Mar 3, 2000 "Brain Briefings", presentation open to general public, sponsored by Sangamon Society for Neuroscience. Sep 2, 1998, "Treatment of Headache", presentation open to general public, Crowne Plaza Hotel Springfield, sponsored by Glaxo-Wellcome.  
 Sep 24, 1997 "Epilepsy Management", Illinois Association of Rehabilitation Facilities/Illinois Communities in Action Now (IARF/ICAN) Annual Conference and Trade Show.  
 Jun 27, 1997 Graduation Address to School of Electroneurodiagnostic Technology, St. John's Hospital.  
 Jun 12, 1998 Graduation Address to School of Electroneurodiagnostic Technology, St. John's Hospital.  
 Apr 22, 1997 "Alzheimer Disease", presented to Springfield Kiwanis Club Senior Division.  
 Mar 18, 1997, and Mar 19, 1998 "People with Diseases of the Brain", part of a symposium in celebration of Brain Awareness Week.  
 Jan 31, 1995 "Epilepsy: Using Animal Models to Discover its Cause and Cure", Society for Neuroscience, Sangamon County Chapter.  
 Jun 24, 1994 20th Anniversary Graduation speech to St. John's School of EEG Technology.  
 Jan 10, 1994 "Ask the Physician", WTAX radio, Springfield IL. Topic: Seizures and Epilepsy.  
 Apr 2, 1993 "Benzodiazepine Modulation of Long Term Potentiation", SIU Alzheimer Disease and Related Disorders Center Seminar Series, SIU.  
 Sep 7, 1990 and Aug 15, 1992 Faculty Research Presentation, Department of Internal Medicine, SIU School of Medicine.  
 Apr 1990, 1991, 1992, 1993 Introduction to Clinical Medicine, Clinical Neuroscience Section teaching, SIU School of Medicine.  
 Yearly, Spring 1990-1998 "Diseases of the Basal Ganglia." St. John's Hospital School of Electroneurodiagnostic Technology, Springfield, Illinois.  
 Oct. 31, 2000 "Headache" St. John's Hospital School of Electroneurodiagnostic Technology, Springfield, Illinois.  
 Jan 22, 1990 "Lithium: A Second Messenger Mechanism?" Psychiatry Department Neuroscience Seminar Series, SIU

School of Medicine.

Nov 17, 1989 "Cholinergic Effects at an Excitatory Amino Acid Synapse." SIU Alzheimer Disease and Related Disorders Center Seminar Series, SIU.

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