

**RAMAN SANKAR, PhD, MD, FAAN**  
Division of Pediatric Neurology  
David Geffen School of Medicine at UCLA  
and  
Mattel Children's Hospital at UCLA  
Room 22-474 MDCC  
Los Angeles, California 90095-1752

E-mail: RSankar@UCLA.edu  
310-794-1014; Fax 310-825-5834  
Office Staff : 310-794-4271

## **CURRICULUM VITAE**

### **ACADEMIC POSITIONS:**

2005 - Present	Professor and Chief, Rubin Brown Distinguished Chair Division of Pediatric Neurology David Geffen School of Medicine at UCLA
1999 – 2005	Associate Professor Director of Residency Training in Child Neurology David Geffen School of Medicine at UCLA
1992 – 1999	Assistant Professor UCLA School of Medicine
1991 – 1992	Clinical Instructor of Pediatric Neurology UCLA School of Medicine
1989 – Present	Consulting Pediatric Neurologist Kern County Medical Center (affiliated with UCLA) Bakersfield, California
1997 – 1999	Consulting Pediatric Neurologist Bakersfield Family Medical Center, Bakersfield, California
1979 - 1986	Adjunct Assistant Professor of Pharmacology Tulane University School of Medicine, New Orleans. Lectures to pharmacology graduate students
1982 - 1986	Adjunct Associate Professor of Medicinal Chemistry Xavier University College of Pharmacy, New Orleans
1975 - 1982	Associate Professor of Medicinal Chemistry (80-82) Assistant Professor of Medicinal Chemistry (75-80) Xavier University College of Pharmacy, New Orleans Taught various courses in medicinal chemistry and directed undergraduate research
1974 - 1975	Postdoctoral Research Associate School of Pharmacy, University of Washington Research on the synthesis of optically active, central skeletal muscle relaxants (Dr. W.L. Nelson)

**EDUCATION:**

Post Doctoral:	1989 - 1991	Fellow Division of Pediatric Neurology UCLA School of Medicine, Los Angeles, CA
	1988 - 1989	Resident Department of Neurology UCLA School of Medicine, Los Angeles, CA
	1986 - 1988	Pediatric Intern-Resident Children's Hospital of Los Angeles Los Angeles, California
Medical:	1982 - 1986	Tulane Medical School New Orleans, Louisiana
Graduate:	1968 - 1974	University of Washington, Seattle, Washington Ph.D. in Pharmaceutical Sciences (Medicinal Chemistry)
Undergraduate:	1965 - 1968	University of Bombay Bombay, India B.S. Tech. Technology of Pharmaceuticals and Fine Chemicals
	1961 - 1965	University of Bombay Bombay, India B.S. Major: Chemistry, Minor: Physics

**MEDICAL LICENSES AND CERTIFICATIONS:**

California License: A 043996; Louisiana License: 018831

DEA License: BS1107172

Diplomate of the American Board of Psychiatry and Neurology: **Neurology with Special Qualification in Child Neurology.** Certificate Number: 985 (1995); Recertified, 2005

**HONORS:**

Academic Merit Scholarship, University of Bombay (1965-1968)

Rubenstein Fellow, School of Pharmacy, University of Washington Seattle, Washington

Lawrence Ferring Faculty Award for the teacher of the year at the College of Pharmacy, Xavier University, New Orleans, 1982

Rho Chi, National Pharmaceutical Honor Society

Sigma Xi, The Scientific Research Society

New Orleans Pediatric Society Award, Tulane University Medical School Graduation, 1986

John Hughlings Jackson Fellow of the Epilepsy Foundation of America, 1992-93.

Award for “Volunteer of the Year” by the Epilepsy Foundation of Los Angeles and Orange Counties, July 9, 1995.

Special Recognition by the Board of Directors of the Venice Family Clinic (Summer 1996).

Listed in The Best Doctors in America, Woodward/White, Inc. 1996, again in 1998 – excerpt appeared in the Los Angeles Magazine, November 1996 as one of the “Best Doctors in LA.”

Visiting Professor, Massachusetts General Hospital & Tufts New England Medical Center, Boston, March 1997.

Visiting Professor, University of Manitoba, Pediatrics & Neurology, Winnipeg, Manitoba, April 2000.

Visiting Professor, University of Michigan School of Medicine, Department of Neurology, Ann Arbor, MI, July 2000.

Elected to the Professional Advisory Board of the Epilepsy Foundation, April 2000.

Elected Member, Grants and Fellowships Committee, Epilepsy Foundation, April 2000.

Visiting Professor, Yonsei University, Seoul, South Korea, September 2001.

Visiting Professor, Oregon Health Sciences University, Portland, Oregon, September 18-19, 2002.

William F. Friedman Lecturer, David Geffen School of Medicine at UCLA, January 24, 2003.

Selected to NINDS,NIH, Special Emphasis Panel, ZNS1 SRB-W (07), on “Model Validation for Antiepileptogenic and Resistant Epilepsy Therapies,” April 22, 2004

Selected as participant in an NINDS, NIH Workshop on “Animal Models of the Childhood Epilepsies,” May 13-14, 2004.

Excellence in Teaching Award, from the Resident Physicians, Department of Neurology, June 23, 2004.

Elected Fellow of the American Academy of Neurology (FAAN), Fall 2004.

Invited to participate in the Gordon Research Conference on Neuronal Synchronization, Aug 2006.

Presentation at the NINDS, NIH, Workshop on Neonatal Seizures, June 31, 2007.

Visiting Lecturer Pro Tempore, The Neurological Institute, The Cleveland Clinic Educational Foundation, Cleveland, Ohio, July 25, 2008.

Visiting Professor, Institute of Physiology, Academy of Sciences of the Czech Republic, September 29, 2008, Prague, Czech Republic.

Appointed Foreign Advisor to the Pediatric Epilepsy Center at Hôpital Robert-Debré, Paris and Visiting Professor (2009), Université Paris, France.

**RESEARCH INTERESTS:**

Neurochemistry of GABA systems during status epilepticus in the developing rat brain.

Effects of seizures and chronic epilepsy in the developing rat brain. New models for chronic, recurrent seizures based on electrophysiologic (perforant path stimulation) and chemical (lithium-pilocarpine) models of experimental seizures.

Studies on seizure-induced apoptosis, necrosis, neurogenesis and epileptogenicity in the developing brain.

Glucose transporters in the developing brain – role in hypoxia-ischemia, seizures and epileptogenesis. Consequence of GLUT3 gene deficiency on cerebral structure and function (in collaboration with Dr. Sherin Devaskar's laboratory).

Developmental aspects of traumatic brain injury and aberrant plasticity (with Drs. Giza and Hovda).

Studies on the duration of status epilepticus as a modifier of neuronal injury and epileptogenicity in the developing brain.

Study of inflammation as a modifier of seizure-induced neuronal injury in the developing brain.

Explorations in neuroprotective interventions in the developing brain.

Development of fast throughput models to facilitate screening of candidate compounds for development-specific antiepileptogenic activity.

Seizures and behavioral consequences in the developing and adult rat brain – what is the neurochemical connection? Role of galanin and serotonin in brainstem structures (with Dr. Mazarati). These studies parallel clinical studies relating epilepsy, cognition and behavior under the direction of Dr. Rochelle Caplan.

GLUT3 gene disruption produces features of autism in the rodent (with Drs. Sherin Devaskar and Alcino Silva).

Neurochemistry of depression associated with epileptogenesis – studies of behavior, physiology, and serotonergic systems in kindling model and in post-status epilepticus epileptogenesis.

Plasticity of KCNQ channels during epileptogenesis in the immature brain.

**GRANT SUPPORT:**

1992 - 93: John Hughlings Jackson Fellowship of the Epilepsy Foundation of America (\$30,000 for Research/Clinical Award).

1994 - 97: NINDS - NIH - NS28383, for "Study of growth cone markers and neurotrophins in human epileptic tissue," of Pediatric Epilepsy Surgery Research Program Project (\$58,329 Coinvestigator with Dr. H.I. Kornblum, Project 3 of Program Project Grant. Principal Investigator: W. Donald Shields, MD)

1995 - 2000: NINDS - NIH - NS01792 "Effect of Seizures on Brain Maturation," Clinical Investigator Development Award (\$360,500 for 5 years).

1998 – 2000: Sigma-Tau Pharmaceuticals, Inc., "Carnitine Supplementation in Patients on the Ketogenic Diet for the Treatment of Intractable Epilepsy," (\$93,000).

1999 – 2004: NICHD – NIH – HD38600 “Neuroplasticity of brain asphyxiated Infants : Efficacy of intervention” (5% effort, Dr. Lina Badr, P.I., transferred to Dr. Meena Garg).

2002 – 2004: Cyberonics, Inc., “A Study of Neuropsychiatric and Cognitive Function in Children with Epilepsy Treated with Vagus Nerve Stimulation,” Rochelle Caplan, PI (\$60,000)

2003 – 2008: NINDS, NIH –1R01 NS045911 "Childhood Absence Epilepsy: Treatment, Pharmacokinetics-Pharmacodynamics-Pharmacogenetics" PI: Tracy A. Glauser, M.D., (A multicenter project with Raman Sankar, MD, PhD as the PI at UCLA. 5% effort).

2004 – 2008: NINDS, NIH – 1R01 NS046516 “Epileptogenicity in the Developing Brain” (Raman Sankar, PI, 35% effort, \$208,125 Direct Costs for 1<sup>st</sup> year).

2007 – 2008: Award from Valeant Pharmaceuticals for the “Anticonvulsant Development Program,” (Raman Sankar and Andrey Mazarati, Co-PIs, \$70,000).

2007 – 2008: Award from Johnson & Johnson Pharmaceutical Research Institute “Evaluation of the Antiepileptogenic Potential of Carisbamate in the Rapid Kindling Model” (Raman Sankar and Andrey Mazarati, Co-PIs, \$88,500)

2007 – 2009: Marinus Pharmaceuticals, Inc. A double-blind, placebo-controlled dose-ranging clinical study to evaluate the safety, tolerability and antiepileptic activity of ganaxalone in treatment of patients with infantile spasms. (Raman Sankar, PI, \$306,380)

2007 – 2009: Marinus Pharmaceuticals, Inc. An open-label clinical study to evaluate the safety and antiepileptic activity of ganaxalone in the treatment of patients diagnosed with infantile spasms. (Raman Sankar, PI, \$152,967).

2008 – 2010: NINDS, NIH - R21 NS059505 “Validation of high-throughput screening of candidate antiepileptogenic drugs” (Raman Sankar 10% effort; Andrey Mazarati, PI). (Score 128, 4<sup>th</sup> percentile, funding effective Feb 15, 2008).

2008 – 2010: NIMH, NIH – R21 MH079933 “Neurobiological Basis of Depression as a Comorbidity in Epilepsy” (Raman Sankar 10% effort; Andrey Mazarati, PI) – (Score 149).

2009 – 2012: NINDS, NIH – R01 submitted “Mechanisms of Comorbidity between Epilepsy and Depression” (Raman Sankar 10% effort; Andrey Mazarati, PI) – under review.

### **CLINICAL / TEACHING ACTIVITIES:**

Attending Neurologist, UCLA Children’s Hospital, UCLA Medical Center Hospital and Clinics. Consult- and in-patient services; Epilepsy / Long-Term Monitoring.

Attending Neurologist, Multidisciplinary Clinic for Tuberous Sclerosis, run by the Division of Genetics and the Neuropsychiatric Institute, UCLA Medical Center (1994 - 1996).

Consulting Neurologist, Kern Medical Center, Bakersfield, CA.

Consulting Neurologist, Bakersfield Family Medical Center (1997 – 99)

Consulting Neurologist, Venice Family Clinic, Venice, CA (volunteer service, 1990 - 2000).

**OTHER EDUCATIONAL AND MENTORING ACTIVITIES:**

1975 - 1984	Regular contributor to American Council on Pharmaceutical Education (ACPE) approved continuing education programs to practicing pharmacists sponsored by Xavier University, New Orleans, Louisiana.
1989 - Present	Contributor to educational programs in the UCLA Graduate School of Nursing and nursing educational programs sponsored by the Pediatric Critical Care Nursing Division at UCLA Center for the Health Sciences.
1991 - Present	Regular lecturer to residents in the Departments of Neurology and the Department of Pediatrics at Kaiser Permanente Medical Center.
1992 - Present	Participation in the undergraduate Student Research Program.
1993 - Present	Pediatric Resident Mentor Program (Drs D. Balke, L. Tseng-Ong, V. Cheung, S. Spence, K. Maher, R. Chong)
1994 - 97	Member, Doctoral Dissertation Committee of Kerry Thompson, Candidate for PhD in the UCLA Neuroscience Program.
1996 – 2007	Faculty, Pediatric Board Review Course, UCLA Department of Pediatrics and Mattel Children’s Hospital at UCLA.
1996, 97 Summers	Participating faculty in Pediatric Board Review courses by the Osler Institute.
1998, 99 January	Faculty in Osler Review for Neurology Boards, ABPN Part II.
2003 – 2004	Contributing Faculty, UCLA School of Dentistry Resident Fellow Program, DS 30701
2003 - 2006	Member, Doctoral Dissertation Committee of Gene Gurkoff, Candidate for PhD in the UCLA Neuroscience Program.
2006 – 2008	Member, Doctoral Dissertation Committee of Stéphane Auvin at the University of Lille Medical School, Lille, France.
2004 - 2006	Member, Scholarship Oversight Committee, Camille Fong, MD, Neonatology fellow.
2007 – 2008	Preceptor to visiting scientist, Dr. Young-Se Kwon, Inha University, Incheon, South Korea.
2007 – 2009	Member, Scholarship Oversight Committee, Edward Evans, MD, Neonatology fellow.
2008 -	Preceptor to post-doctoral fellow, Eduardo Pineda, PhD.

**MEMBERSHIPS IN PROFESSIONAL SOCIETIES:**

Society for Neuroscience  
 American Academy of Neurology (Elected Fellow, 2004)  
 American Epilepsy Society  
 Child Neurology Society  
 Los Angeles Pediatric Society

## **SERVICE TO EDITORIAL BOARDS, PROFESSIONAL ORGANIZATIONS**

Editorial Board, *Epilepsia*, 2007 – 2010.

Contributing Editor, *Epilepsy Currents*, appointed in 2001-2005 (Blackwell Publishing, on behalf of the American Epilepsy Society)

Consulting Editor, Neurosciences, *Pediatric Research* (appointed 2004)

Member, Editorial Board, *Contemporary Neurology* (MIT Press, Peer-reviewed, Electronic)

Member, Editorial Board, *Frontiers in Bioscience* (Peer-reviewed, Electronic)

*Ad hoc* reviewer for:

1. Acta Neurologica Scandinavica
2. Annals of Neurology
3. Biochemical and Molecular Medicine
4. Brain Research
5. Cellular and Molecular Life Sciences
6. Epilepsia
7. Epilepsy Research
8. Epileptic Disorders
9. Journal of Cerebral Blood Flow and Metabolism
10. Journal of Neurochemistry
11. Journal of Neuroscience
12. Journal of Pediatrics
13. Journal of Pediatric Research
14. Lancet Neurology
15. Life Sciences
16. Mental Retardation and Developmental Disabilities Research Reviews
17. Molecular Brain Research
18. Molecular Genetics and Metabolism
19. Neurobiology of Disease
20. Neurology
21. Neuroscience
22. Neuroscience Letters
23. Pharmacology, Biochemistry, and Behavior
24. Journal of Pediatric Psychology

*Ad hoc* grant reviewer for the Medical Research Council of New Zealand (1996).

Chaired a platform session (Session 661) at the 27<sup>th</sup> Annual Meeting of the Society for Neuroscience, October 25-30, 1997, New Orleans: Epilepsy: Basic Mechanisms I

Co-chaired a platform session (Session L) at the Annual Meeting of the American Epilepsy Society, December 5-10, 1997, Boston: Behavior; Neuropsychology; Language and Aphasia

Co-chaired a platform session at the 50<sup>th</sup> Annual Meeting of the American Academy of Neurology, April 25 – May 2, 1998, Minneapolis: Antiepileptic Drugs:

Member, Research Review Board, Alternating Hemiplegia Foundation

Selected to represent pediatric neurology in the Medical Expert Panel, ABC News (1999 - )

Reviewed Neuroscience Abstracts for the Western Regional Meeting (Feb 2000) of the American Federation for Medical Research

*Ad hoc* consultant to Ortho-McNeil, Parke-Davis, Cyberonics, Ortho-McNeil, Novartis, Xcel, Elan, UCB, and Valeant Pharmaceuticals.

Member, Awards Committee, Epilepsy Section, American Academy of Neurology (1999 - )

Member, Committee on Continuing Education, American Epilepsy Society (1999 - )

Member, Research Committee, Child Neurology Society (2000 - )

Member, Professional Advisory Board, Epilepsy Foundation (2000 - )

*Ad hoc* grant reviewer for the Wellcome Trust, 183 Euston Road, London NW1 2BE, UK (2000)

*Ad hoc* grant reviewer for the Veterans Administration Merit Review Grants (2001)

Research Grants Review for the Epilepsy Foundation, Professional Advisory Board Meeting, Las Vegas, October 26, 27 (2001)

Member, Annual Meeting Committee, American Epilepsy Society (2001 - 2002)

Grants and Fellowships Committee, Epilepsy Foundation PAB, Washington D.C., October 18,19 (2002).

Examiner, American Board of Psychiatry and Neurology, Part II (orals), May 2002.

SRB Study Section for NINDS, NIH, Special Emphasis Panel: ZNS1 SRB-W (07) (April 2004)

Selected as participant in an NINDS, NIH Workshop on "Animal Models of the Childhood Epilepsies," May 13-14, 2004.

NINDS, NIH, Special Emphasis Panel, ZNS1 SRB - G(03), Mechanisms and Treatment of Epilepsy, November 2005.

NINDS, NIH Study Section, Neurological Sciences and Disorders – C (NSDC), *ad hoc*, September 2005, February 2006.

NINDS, NIH, Fellowship Review Committee ZNS1 SRB-M, April, 2006.

NINDS, NIH, Loan Repayment Program Application Review ZNS1 SRB-M 35, April, 2006.

Examiner, American Board of Psychiatry and Neurology, Part II (orals), September 10-12, 2004.

Tuberous Sclerosis Complex Investigator's Meeting, New York, New York, November 19-21, 2004.

Examiner, American Board of Psychiatry and Neurology, Part II (orals), January 14-16, 2005.

Reviewer for Research Grants submitted to the Child Neurology Foundation, 2005.

Scientific Review Board, **CURE** (Citizens United for Research in Epilepsy), 2003, 2004, 2005.

Scientific Review Board, American Epilepsy Society, Early Career Physician Scientist Award, 2005-2008.

Appointed to the Research Council of the Professional Advisory Board of the Epilepsy Foundation, April, 2006.

NINDS, NIH Study Section, Neurological Sciences and Disorders – C (NSDC), Appointment 2006, term expiring in June 2010.



Epilepsy Foundation Youth Research Initiative – work group member, appointed Fall 2006.

Committee on Special Interest Discussion Groups, American Epilepsy Society, and Chair, SIG on Basic Science, 2006.

Steering Committee for Regional Education Programs, American Epilepsy Society, 2006

Organizing Committee (Committee of the International League Against Epilepsy) for the Workshop on the Neurobiology of Epilepsy 2007 in Langkawi, Malaysia, satellite to the International Epilepsy Congress in Singapore, 2007.

Committee on Special Interest Discussion Groups, American Epilepsy Society, and Chair, SIG on Basic Science, 2007.

Elected member of the Epilepsy Research Foundation Board of Directors as an Epilepsy Foundation representative, 2008.

Pediatric Topics Selection Committee for the Annual Meeting of the American Epilepsy Society, 2008 - ?

Committee on Special Interest Discussion Groups, American Epilepsy Society, and Chair, SIG on Basic Science, 2008.

Organizing Committee (Committee of the International League Against Epilepsy) for the Workshop on the Neurobiology of Epilepsy 2009 in Pecs, Hungary, satellite to the International Epilepsy Congress in Budapest, 2009.

### **UNIVERSITY / DEPARTMENTAL SERVICE**

Faculty Advisor to medical school freshmen (1994 -1995).

Presentations to the Pharmacy and Therapeutics Committee on nomination of new anticonvulsants to the hospital formulary (1994: Felbamate; 1995: Lamotrigine).

Member: Pharmacy and Therapeutics Committee, UCLA Medical Center (1994 - present).

Member: *Ad hoc* Committee for the Development of Filmless Radiology (Department of Pediatrics (1994-95).

Member: *Ad hoc* Committee for Evaluating the Role of Information Systems in Research Support (Department of Pediatrics, 1997).

Member: Education Liaison Committee, Department of Pediatrics (1996 – present).

Member: Information Technology Task Force - Strategic Planning, UCLA Medical Enterprise (1997).

Member: World Wide Web Advisory Committee, Department of Pediatrics (1998 - )

Member: *Ad hoc* Rehabilitation and Subacute/Long-term Care Advisory Committee for the UCLA Healthcare Network (1998)

Member: Department of Pediatrics Grand Rounds Committee (1999- )

Member: In-patient Charge Document Committee (1999 - 2000 )

Grant Reviewer: UCLA AIDS Institute.

Member, *Ad hoc* Review Committee of the Council on Academic Personnel (CAP), January 2001, May 2002.

Mentor to Junior Faculty: John Stern, MD, Department of Neurology; Mini Mehra, MD, Department of Pediatrics (both beginning in 2001)

Member, General Clinical Research Center Advisory Board, October 2002 – present

Member, Residency Training Committee, Department of Neurology, 2002 – present.

Member, Department of Pediatrics Group Practice (DPGP) Executive Board, 2004 - 2008.

Member, Review & Appraisals Committee, Department of pediatrics, 2005 – present.

### **COMMUNITY SERVICE**

Consulting pediatric neurologist for the Venice Family Clinic, 1991 – 1999.

Member, Board of Directors, Epilepsy Foundation of Los Angeles, Orange, San Bernardino, and Ventura Counties, Elected 1995.

Guest speaker at the Family Weekend Camp organized by the Epilepsy Foundation of Los Angeles, Orange, San Bernardino, and Ventura Counties. Fall 1993 - 2000.

Participant / Speaker at the UCLA symposium "Treatment of Epilepsy Today". Held at the UCLA Conference Center on November 20, 1993.

Speaker at the Medical Education Conference for patients and their families, sponsored by the National Tuberous Sclerosis Association: "Neurological Aspects of Tuberous Sclerosis," Los Angeles, June 11, 1994.

Speaker at the UCLA Conference "Treating Epilepsy in 1995: A Seminar for Patients," UCLA Conference Center on April 29, 1995.

Speaker at the Medical Education Conference for patients and their families, sponsored by the National Tuberous Sclerosis Association: "New Treatment Options for Seizure Disorders," Long Beach, October 21, 1995.

Speaker at a program sponsored by "Parents Helping Parents" on the Ketogenic Diet: "Role of Carnitine Supplementation in the Ketogenic Diet," San Jose, May 17, 1997.

Speaker at the Medical Education Conference for patients and their families, sponsored by the National Tuberous Sclerosis Association: "New anticonvulsants for patients with tuberous sclerosis." Los Angeles, November 21, 1998.

Speaker at the Epilepsy Education Conference sponsored by the Epilepsy Foundation: "The Ups and Downs of Epilepsy Treatments for Children," at Anaheim, March 27, 1999.

Speaker at the Epilepsy Education Conference for families: Vagus Nerve Stimulation in Medically Refractory Epilepsies of Childhood," Santa Monica, May 26, 1999.

Various national media interviews on epilepsy such as National Public Radio (1994), Home Show (ABC TV, 1993), Beyond Belief (CBS TV, Dec 1994), local cable channel dedicated to the Asian community (KSCI, Ch. 18, Los Angeles, 1994), Evening News (Fox TV, Ch. 11, Los Angeles (March 11, 1996), The Learning Channel (National Cable Channel, March 2, 1997).

Speaker at the Program for Families with Epilepsy sponsored by the Epilepsy Foundation, September 7, 2002.

Volunteer and speaker at *Family Weekend Camp*, Epilepsy Foundation, September 21, 2002.

*Teleconference for Parents*, sponsored by the Epilepsy Foundation, November 9, 2002.

Volunteer and speaker at *Family Weekend Camp*, Epilepsy Foundation, September 20, 2003.

Speaker at the *Epilepsy Brain Storm Summit 2003*, An All day Program for Families, Marriage and Family Therapists, Licensed social Workers, Nurses, and Nursing Home Administrators sponsored by the Epilepsy Foundation, held at the Loyola Marymount University Campus, November 8, 2003.

Speaker at a family support group meeting of the *Tuberous Sclerosis Alliance*, January 24, 2004.

Speaker at the *Epilepsy Brain Storm Summit 2004*, *Epilepsy Foundation of Los Angeles*, Cathedral of Our Lady of Angels, November 12, 2004, Los Angeles, California.

Participant in the *Tuberous Sclerosis Alliance's West Coast Regional TSC Conference*, February 19-20, 2005 in Riverside, California.

Speaker and Small Group Discussant at "Not Another Moment Lost ... to Childhood Epilepsies," a conference for physicians and families of patients organized by the *Epilepsy Foundation of Los Angeles*, April 2-3, 2005 in Lakewood, California.

Session Co-Chair on the Low-glycemic Index Diet for the Treatment of Epilepsy at the *Epilepsy Brain Storm Summit 2005*, *Epilepsy Foundation of Los Angeles*, Cathedral of Our Lady of Angels, November 12, 2005, Los Angeles, California.

Invited speaker, *Annual Meeting of the Tuberous Sclerosis Alliance*, July 12-15, 2006, Chicago, Illinois.

Speaker, Family weekend Camp of the *Epilepsy Foundation of Greater Los Angeles*, Sept 16, 2006, Topanga, California.

"Epilepsy: Diagnosis, Treatment, and Future Options" to the *Central Coast Epilepsy Network*, Oct 9, 2006, Templeton, California.

Presenter and consultant, *2007 Sturge-Weber Foundation International Conference*, July 12-15, Anaheim, California.

Speaker, Family weekend Camp of the *Epilepsy Foundation of Greater Los Angeles*, Sept 15, 2007, Topanga, California.

Round Table on "Epilepsy during Infancy" at the *Epilepsy Brain Storm Summit* of the *Epilepsy Foundation*, November 15, 2008, Los Angeles, California.

## BIBLIOGRAPHY

### **Ph.D. Dissertation:**

Studies on the circular dichroism of the aromatic chromophore and the stereochemistry of the fragmentation in the Beckmann rearrangement, Nov. 1974, University of Washington.

### **RESEARCH ARTICLES:**

1. Nelson WL, Freeman SD, **Sankar R**. Bicyclic amino alcohols. The isomeric 2-dimethylaminomethyl-3-hydroxymethyl-bicyclo [2-2-1] hept-5-enes, *J Org Chem* 40:3658-3664, 1975.
2. Nelson WL, Wennerstrom JE, **Sankar R**. Absolute configuration of glycerol derivatives. 3. Synthesis and cupra A circular dichroism spectra of some chiral 3-aryloxy-1-amino-2-propanols, *J Org Chem* 42:1006-1012, 1977.
3. Domer FR, **Sankar R**, Cole S, Wellmeyer D. Dose-dependent amphetamine-induced changes in the permeability of the blood-brain barrier of normotensive and spontaneously hypertensive rats. *Exp Neurol* 70:576-585, 1980.
4. **Sankar R**, Domer FR, Merine DS. Effects of dopaminergic and adrenergic blockade on amphetamine-induced extravasation of protein in to the brain of normotensive and spontaneously hypertensive rats. *Neuropharmacology* 20:667-673, 1981.
5. **Sankar R**, Domer FR, and Kastin AJ. Selective effects of  $\alpha$ -MSH and MIF-1 on the blood-brain barrier. *Peptides* 2:345-347, 1981.
6. Tachibana M, **Sankar R**, Domer FR. Effects of acute hypertension of the extravasation of macromolecule in the temporal bone - the possible involvement of the blood-inner ear barrier. *Arch Otorhinolaryngol* 232:11-19, 1981.
7. **Sankar R**, Domer FR, Taylor B. Dissociation of changes in the permeability of the blood-brain barrier from catecholamine-induced changes in blood pressure of normotensive and spontaneously hypertensive rats. *Res Comm Chem Path Pharmacol* 37:343-354, 1982.
8. **Sankar R**, Clemons K, Charles P, Blossom E. Age-related differences in the pressor response to amphetamine in Fischer 344 rats. *Res Comm Subs Abuse* 3:367-370, 1982.
9. **Sankar R**, Blossom E, Clemons K, Charles P. Age-associated changes in the effects of amphetamine on the blood-brain barrier of rats. *Neurobiol Aging* 4:65-68, 1983.
10. Holtzman D, Olson J, **Sankar R**. Energy-dependent volume regulation in primary cultured astrocytes: Relevance of cytotoxic edema. *Adv in the Biosci* 61:187-189, 1986.
11. Olson JE, **Sankar R**, Holtzman D, James A, Fleischhacker D. Energy-dependent volume regulation in primary cultured cerebral astrocytes. *J Cell Physiol* 128:209-215, 1986.
12. Olson JE, Holtzman D, **Sankar R**, Lawson C, Rosenberg R. Octanoic acid inhibits astrocyte volume control: Implications for cerebral edema in Reye's Syndrome. *J Neurochem* 52:1197-1202, 1989.
13. Chugani HT, Shewmon DA, **Sankar R**, Chen BC, Phelps ME. Infantile Spasms: II. Lenticular nuclei and brainstem activation on positron emission tomography. *Ann Neurol* 31:212-219, 1992.
14. Chugani HT, Shewmon DA, Shields WD, **Sankar R**, Comair Y, Vinters HV, Peacock WJ. Surgery for intractable infantile spasms: neuroimaging perspectives. *Epilepsia* 34:764-771, 1993.

15. Rintahaka PJ, Chugani HT, **Sankar R**. Landau-Kleffner syndrome with continuous spikes and waves during slow wave sleep. *J Child Neurol* 10:127-133, 1995.
16. **Sankar R**, Curran JG, Kevill J, Rintahaka PJ, Shewmon DA, Vinters HV. Microscopic cortical dysplasia in infantile spasms: evolution of white matter abnormalities. *AJNR Am J Neuroradiol* 16:1265-1272, 1995.
17. Peacock WJ, Wehby-Grant MC, Shields WD, Shewmon DA, Chugani HT, **Sankar R**, Vinters HV. Hemispherectomy for Intractable Seizures in Children: a report of 58 cases. *Child's Nerv Syst* 12:376-384, 1996.
18. **Sankar R**, Shin DH, Wasterlain CG. GABA metabolism during status epilepticus in the developing rat brain. *Dev Brain Res* 98:60-64, 1997.
19. Kornblum HI, **Sankar R**, Wasterlain CG, Shin DH, Gall CM. Induction of brain derived neurotrophic factor mRNA by seizures in neonatal and juvenile rat brain. *Mol Brain Res* 44:219-228, 1997.
20. **Sankar R**, Shin DH, Wasterlain CG. Serum neuron-specific enolase is a marker for neuronal damage following status epilepticus in the rat. *Epilepsy Res* 28:129-136, 1997.
21. Asarnow RF, LoPresti C, Elliott T, Cynn V, Shields WD, Peacock WJ, Shewmon DA, **Sankar R**, Vinters HV. Developmental outcomes in children receiving resective surgery for medically intractable infantile spasms. *Dev Med Child Neurol* 39:430-440, 1997.
22. Mazarati AM, Wasterlain CG, **Sankar R**, Shin DH. Self-sustaining status epilepticus after brief electrical stimulation of the perforant path. *Brain Res* 801:251-253, 1998.
23. **Sankar R**, Shin DH, Liu H, Mazarati AM, Pereira de Vasconcelos A, Wasterlain CG. Patterns of status epilepticus-induced neuronal injury during development and long-term consequences. *J Neurosci* 18:8382-8393, 1998.
24. Mazarati AM, Liu H, Soomets U, **Sankar R**, Shin DH, Katsumori H, Langel Ü, Wasterlain CG. Galanin modulation of seizures and seizure modulation of hippocampal galanin in animal models of status epilepticus. *J Neurosci* 18:10070-10077, 1998.
25. Mazarati AM, Baldwin RA, **Sankar R**, Wasterlain CG. Time-dependent decrease in the effectiveness of antiepileptic drugs during the course of self-sustaining status epilepticus. *Brain Res* 814:179-185, 1998.
26. Liu H, Mazarati AM, Katsumori H, **Sankar R**, Wasterlain CG. Substance P is expressed in hippocampal principal neurons during status epilepticus, and plays a critical role in the maintenance of status epilepticus. *Proc Natl Acad Sci USA* 96:5286-5291, 1999.
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102. **Sankar R**, Mazarati AM. Evaluation of age-specific targets for antiepileptogenic therapy. Submitted to the *Workshop on the Neurobiology of Epilepsy*, June 24-26, 2009, Pécs, Hungary.
103. Auvin S, Shin D, Mazarati AM, **Sankar R**. Interleukin-1 receptor antagonist (IL1-RA) partially reverses the enhancement of kindling caused by LPS in immature rats. Submitted to the *Workshop on the Neurobiology of Epilepsy*, June 24-26, 2009, Pécs, Hungary.
104. **Sankar R**, Kwon YS, Auvin S, Shin D, Mazarati AM. Antiinflammatory drug cocktail provides partial hippocampal neuroprotection in a model of status epilepticus in immature rats. Submitted to the *International Epilepsy Congress*, June 28-July 2, 2009, Budapest, Hungary.
105. Mazarati AM, Shin D, Bragin A, Tio D, Taylor A, **Sankar R**. Hyperactivity of hypothalamo-pituitary-adrenocortical axis in a rat model of temporal lobe epilepsy: a mechanism of comorbidity between epilepsy and depression. Submitted to the *International Epilepsy Congress*, June 28-July 2, 2009, Budapest, Hungary.
106. Wu JY, Sankar R, Mathern GW. Seizure freedom is associated with complete resection of fast ripple recorded during intraoperative electrocorticography in children with intractable neocortical epilepsy. Submitted to the *International Epilepsy Congress*, June 28-July 2, 2009, Budapest, Hungary.

**INVITED PRESENTATIONS:****International:**

1. "Why are Children not just Small Adults?" presented at the *International Conference on Clinical Issues in Epilepsy*, June 11, 1993, Los Angeles, California.
2. Session Moderator, "Where We're Going: The Future for Antiepileptic Drugs," at the symposium *Managing Seizures in Children: Designer Drugs or the Cutting Edge?* March 17-18, 1994, Palm Desert, California.
3. "Presurgical Evaluation: Choosing the Right Candidate," at the symposium *Managing Seizures in Children: Designer Drugs or the Cutting Edge?* March 17-18, 1994, Palm Desert, California.
4. "Structural and Functional Imaging in Defining Subtle Cortical Abnormalities," at *New Developments in Pediatric Epilepsy Surgery*, a satellite symposium of the joint *Child Neurology Society / International Child Neurology Association* meeting, September 30, 1994, Santa Monica, California.
4. Afternoon session moderator, *New Developments in Pediatric Epilepsy Surgery*, a satellite symposium of the joint *Child Neurology Society / International Child Neurology Association* meeting, September 30, 1994, Santa Monica, California.
5. "Differential effects of status epilepticus (SE) on GABA synthesis in the rat cortex and hippocampus during development," Focus on Epilepsy III, GABA and Epileptogenesis, an International Conference, Whistler, British Columbia, Canada, May 13-16, 1995.
6. "Ontogeny of Status Epilepticus-Associated Brain Damage," at *Status Epilepticus - Mechanisms and Management, An International Symposium*, February 6-8, 1997, Santa Monica, California.
7. "Ontogeny of Seizure-Associated Brain Injury," at *Childhood Epilepsy and Brain Development, An International Conference*, April 2-5, 1997, Strasbourg-Obernai, France.
8. "Use of Serum Neuron-Specific Enolase as a Marker for Seizure-Induced Brain Damage," at the *Workshop on the Neurobiology of Epilepsy - WONOEP IV*, June 25-27, 1997, Adare, County Limerick, Ireland.
9. "Does neuronal dysfunction impair maturation and functions of subcortical structures including myelin?" Plenary session at the 24<sup>th</sup> Annual Meeting of the Neuropediatric Society of Germany, Austria, and Switzerland, October 15-18, 1998, Hamburg, Germany.
10. "Acute and Chronic Effects of Status Epilepticus in Developing Brains," at the *Van Gogh Symposium on Temporal Lobe Epilepsy (A Merritt-Putnam Symposium)*, April 9-10, 1999, Los Angeles, California.
11. "Patterns of immediate early gene expression predict age- and model-dependent plasticity following experimental status epilepticus," at the *Workshop on the Neurobiology of Epilepsy - WONOEP V*, September 8-10, 1999, Český Krumlov, Czech Republic.
12. Visiting Professor with presentations to Neuroscience, Neurology, and Pediatrics, and neurology case conferences at the *University of Manitoba*, April 27-28, 2000, Winnipeg, Manitoba.
13. "Catastrophic Childhood Epilepsies," "Anticonvulsant Pharmacology," and "Seizure-induced Injury and Plasticity in the Developing Brain," at the *Third Russian-American Symposium on the Clinical and Social Aspects of Epilepsy*, at the N.N. Burdenko Research Institute of Neurological Surgery, August 31, 2000, Moscow, Russian Federation.
14. "The potential role of topiramate in disease modification and neuroprotection," at the *Asia Pacific Roundtable*, November 10, 2000, New Delhi, India.

15. "Epileptogenesis in the Developing Brain," in a Plenary Symposium on Abnormal Plasticity in Epileptogenesis at the 3<sup>rd</sup> Congress of the *Asian and Oceanian Epilepsy Organizations*, November 11, 2000, New Delhi, India.
16. "Topiramate: Rationale for Early Use in Epilepsy," at the Plenary Session on Pediatric Epilepsy sponsored by Janssen-Cilag at the 3<sup>rd</sup> Congress of the *Asian and Oceanian Epilepsy Organizations*, November 11, 2000, New Delhi, India.
17. "Seizure-Induced Injury, Neurogenesis, and Plasticity in the Developing Brain," at the *Workshop on the Neurobiology of Epilepsy - WONOEP VI*, May 9, 2001, Iguazu, Brazil.
18. "Studies on the Effect of Seizures on the Developing Brain," at the Young Investigators Seminar, 24<sup>th</sup> *International Epilepsy Congress*, May 13-18, 2001, Buenos Aires, Argentina.
19. Visiting Professor, *Yonsei University*, September 19, 2001, Seoul, South Korea.
20. "Neuroprotection by AEDs in the Developing Brain," at a symposium sponsored by the *Taiwanese Epilepsy Association*, September 22, 2001, Taipei, Taiwan.
21. "Seizure-induced Epileptogenicity in the Developing Brain," at a symposium at *Kaohsiung Medical University*, September 23, 2001, Kaohsiung, Taiwan.
22. "The Ketogenic Diet in the Treatment of Childhood Epilepsy," for the *Chilean League Against Epilepsy*, October 2, 2001, Santiago, Chile.
23. "Epilepsy and Migraine," "Seizures and the Developing Brain," Plenary Presentations at the *XIX Congreso de la Sociedad de Psiquiatría y Neurología de la Infancia y Adolescencia*, October 4-6, 2001, Viña del Mar, Chile.
24. Invited Discussant on severe myoclonic epilepsy of infancy versus GEFS+ syndrome in an international symposium-workshop on "*Myoclonic Epilepsies of Infancy, Childhood, Adolescence & Adulthood*," December 5,6, 2002, Seattle, Washington.
25. "Traumatic Brain Injury Exacerbates Seizure-Induced Hilar Injury in the Developing Rat Brain," *Spring Epilepsy Research Conference*, May 1, 2003, Grand Cayman, Cayman Islands.
26. "Traumatic Brain Injury and Seizures Interact to Produce Hilar Injury in the Immature Rat Brain," *Workshop on the Neurobiology of Epilepsy - WONOEP VII*, October 7-11, 2003, Ericeira, Portugal.
27. "Current Concepts in Epileptogenesis," and "Genetics of Epilepsy," Invited presentations at the 8<sup>th</sup> *Asian and Oceanian Congress of Child Neurology*, October 7-10, 2004, New Delhi, India.
28. "Children with CSWS – Variability in the Syndrome," invited presentation at the *International Symposium on Epileptic Syndromes in Infancy and Early Childhood (ISES) - Evidence-based Taxonomy and its Implications in the ILAE Classification*, April 29 - May 1, 2005, Tokyo, Japan.
29. "Modifiers of Seizure-Induced Brain Injury in the Developing Brain" at the *8th Workshop on the Neurobiology of Epilepsy - WONOEP VIII* August 24-26, 2005, Château Villiers-le-Mahieu, France.
30. "Therapeutic Decision Making in Pediatric Epilepsy," to the *Malaysian Pediatric Association*, April 25, 2006, Kuala Lumpur, Malaysia.
31. "Seizure-Induced Injury and Epileptogenicity in the Developing Brain," at the Department of Neurology, Yonsei University School of Medicine, April 27, 2006, Seoul, South Korea.
32. "Inflammation Exacerbates Status Epilepticus-induced Injury in the Developing Rat Brain," invited presentation at the *International Symposium on Status Epilepticus in Infants and Young*

- Children (ISSE)- Basic Mechanisms, Clinical Evaluation, Prognosis and Treatment*, April 29 - 30, 2006, Osaka, Japan.
33. "Status Epilepticus," at *Current Trends in Epilepsy: An International Symposium by AIIMS*, Nov 4, 2006, New Delhi, India.
  34. Sankar R and Perucca E, Moderators of a debate between Patrick Kwan (in support of monotherapy) and Sunita Dergalust (in support of polypharmacy) at *Current Trends in Epilepsy: An International Symposium by AIIMS*, Nov 5, 2006, New Delhi, India.
  35. "Status Epilepticus: Pathophysiologic Mechanisms," and "Status Epilepticus: Treatment Options," at the 9<sup>th</sup> *Asian and Oceanian Congress of Child Neurology (AOCCN)*, January 24-27, 2007, Cebu, Philippines.
  36. "Inflammation Modifies Status Epilepticus-Induced Hippocampal Injury During Development," at the 1<sup>st</sup> *London Colloquium on Status Epilepticus*, April 12-14, 2007, London, United Kingdom.
  37. "Back to the Future with Rapid Kindling – Utility in Developmental Studies" and chairing a session on the "Mechanisms of Interictal to Ictal Transition" at the 9<sup>th</sup> *Workshop on the Neurobiology of Epilepsy - WONOEP IX*, July 3-6, 2007, Teluk Nibong, Langkawi Island, Malaysia.
  38. "Selecting Appropriate AEDs for Children" at the *International Epilepsy Congress*, Special Symposium organized by UCB, July 9, 2007, Singapore.
  39. "Basic Mechanisms of Teratogenesis by AEDs," at the meeting of the 5<sup>th</sup> *Mediterranean Neuroscience Association*, September 26, 2007, Catania, Sicily.
  40. "Status Epilepticus: Pathophysiology and Management" at the *XXV Congreso de la Sociedad de Psiquiatría y Neurología de la Infancia y Adolescencia*, October 17-20, 2007, Termas de Chillán, Chile.
  41. "Neonatal Seizures: Pathophysiology and Therapeutics," at the *XXVII Annual Convention of the National Neonatology Forum*, December 15, 2007, Pune, India.
  42. "Ketogenic Diet in a Pill: Is This Possible?" at an *International Symposium on Dietary Therapies in Neurology*, April 4, 2008, Scottsdale, Arizona.
  43. "Experimental Studies of Depression as a Comorbidity of Epilepsy," *Institute of Physiology, Academy of Sciences of the Czech Republic*, September 29, 2008, Prague, Czech Republic.
  44. "Neurobiology of Depression in Epilepsy," 6<sup>th</sup> *Mediterranean Neuroscience Congress and the 11<sup>th</sup> Etrnean Epilepsy Workshop*, October 4, 2008, Catania, Sicily, Italy.
  45. "Experimental Approach to Studying Depression in Epilepsy," "Sapienza" *Neuroscience Meetings*, Consiglio Nazionale delle Ricerche, *Universita di Roma*, October 6, 2008, Rome, Italy.
  46. "Pediatric Epilepsy Syndromes – Update on Genetics and Management," *The 5<sup>th</sup> International Neurology Forum*, December 13, 2008, Ho Chi Minh City, Vietnam.

**National:**

1. "Role of Subcortical Structures in Infantile Spasms: An FDG-PET Study Showing Activation of the Lenticular Nuclei and the Brainstem," *Neurology Grand Rounds*, Spring 1991, *University of North Carolina*, Chapel Hill, North Carolina.
2. "Advances in the Management of Catastrophic Epilepsy in Children," presented to the pediatric housestaff and attending physicians at *Tripler Army Medical Center*, June 3, 1993, Honolulu, Hawaii.



3. "Current Concepts in the Treatment of Epilepsy," presented to the medical staff of *Straub Clinic and Hospital*, June 4, 1993, Honolulu, Hawaii.
4. "Antiepileptic Therapy: Arrival of the New Agents," presented at the Second Annual Symposium of the *Epilepsy Foundation of Greater Chicago, Recent Advances in Clinical Epilepsy*, March 5, 1994, Chicago, Illinois.
5. "Microscopic Cortical Dysplasia in Infantile Spasms: Evolution of White Matter Signal Changes," special seminar at the *Massachusetts General Hospital, Harvard Medical School*, May 31, 1994, Boston, Massachusetts.
6. "Patient Re-evaluation: Impact of New Generation Antiepileptic Agents," *Tufts Medical School - New England Medical Center*, June 1, 1994, Boston, Massachusetts.
7. "Developmental Aspects of Neuroimaging in Infantile Spasms," *Boston Children's Hospital, Harvard Medical School*, June 3, 1994, Boston, Massachusetts.
8. "Classification, Etiology and neurophysiology of Cerebral Palsy," at *Management of Children with Spastic Cerebral Palsy*, A conference for neurologists, pediatricians, neurosurgeons, orthopedic surgeons and physical therapists, February 3-6, 1995, Ensenada, Mexico.
9. "Neuroimaging of the Developing Brain in Intractable Epilepsy," at the *Children's Hospital of Pittsburgh / University of Pittsburgh School of Medicine*, February 15, 1995, Pittsburgh, Pennsylvania.
10. "Neuroimaging of the Developing Brain in Intractable Childhood Epilepsy," Grand Rounds of the Department of Neurology, *University of Washington School of Medicine*, May 18, 1995, Seattle, Washington.
11. "Seizure Disorders: Current Management and Approaches to Treatment," "Meningitis and Other CNS Infections," and "Headaches and Head Injuries: Assessment and Management," at *Clinical Issues in Pediatrics*, a national conference, August 17-18, 1995, Jackson Hole, Wyoming.
12. "Neuroimaging and the Developing Brain: Detection of Microscopic Cortical Dysplasia," Grand Rounds of the Department of Neurology, *Stanford University School of Medicine*, November 8, 1995, Palo Alto, California.
13. "Preclinical and Clinical Pharmacology of New Generation Anticonvulsants," Neurology, Neurosurgery Grand Rounds, *Santa Clara Valley Medical Center*, November 9, 1995, San Jose, California.
14. "Classification, Etiology and neurophysiology of Cerebral Palsy," at *Management of Children with Spastic Cerebral Palsy*, A conference for neurologists, pediatricians, neurosurgeons, orthopedic surgeons and physical therapists, March 22-24, 1995, Ensenada, Mexico.
15. Invited faculty for "Pediatric Epilepsy Case Studies After Dinner Seminar" at the 48<sup>th</sup> Annual Meeting of the *American Academy of Neurology*, March 25, 1996, San Francisco, California.
16. "Neurotransmitters, Ion Channels, and Antiepileptic Drugs," *Children's Hospital*, March 29, 1996, San Diego, California.
17. "Child Neurology for the Pediatric Practitioner," at the Pediatric Board Review Course by the Osler Institute, July 14, 1996, Los Angeles, California.
18. "Weakness, Hypotonia, and Ataxia," and "Congenital Brain Malformations, Metabolic and Neurodegenerative Diseases," at the Pediatric Board Review Course by the UCLA Children's Hospital, September 6, 1996, Los Angeles, California.

19. Visiting Professor with the Division of Pediatric Neurology, *Tufts University Medical School, New England Medical Center*, March 5, 1997, Boston, Massachusetts.
20. "Ontogeny of Status Epilepticus (SE) and SE-induced Brain Damage," Neurology Grand Rounds at the *Massachusetts General Hospital / Harvard Medical School*, March 6, 1997, Boston, Massachusetts.
21. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 1997, Los Angeles, California.
22. "Neurotransmitters, Ion Channels, and Antiepileptic Drugs," *Children's Hospital and Medical Center*, October 18, 1997, Seattle, Washington.
23. "Seizure-induced Apoptosis and Necrosis in the Developing Rat Brain," Grand Rounds at the Department of Neurology, *University of Arizona*, October 24, 1997, Tucson, Arizona.
24. "Treatment of Status Epilepticus in Children," at the Pediatric Neurology Conference for Primary Care Physicians sponsored by *Barrow Neurological Institute*, October 25, 1997, Phoenix, Arizona.
25. "Seizure-induced Brain Damage in the Developing Brain," *Children's Hospital and Regional Medical Center, and the University of Washington*, April 8, 1998, Seattle, Washington.
26. "Patterns of Status Epilepticus-Induced Neuronal Injury during Development." Grand Rounds of the Department of Neurology, *University of Washington School of Medicine*, June 11, 1998, Seattle, Washington.
27. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 1998, Los Angeles, California.
28. "Carnitine and the Ketogenic Diet," at *The Ketogenic Diet: Models and Mechanisms: A Regional Workshop*, Battelle Conference Center, September 18, 1998, Seattle, Washington.
29. "Epilepsy syndromes, Genetics, and Treatment," for *Washington, Oregon Neurology Group*, April 10, 1999, Skamania Lodge, Stephenson, Washington.
30. "Neuromuscular Disorders," at the 4<sup>th</sup> Annual Primary Care Update, presented by the *UCLA School of Medicine*, April 16-18, 1999, Las Vegas, Nevada.
31. "Do Seizures Cause Brain Damage?" at the Update in Child Neurology & Psychiatry, presented by *Children's Hospital & Regional Medical Center and the University of Washington*, May 8, 1999, Seattle, Washington.
32. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 1999, Los Angeles, California.
33. "Rational Drug Sequencing in Children to Separate Medically Refractory from Medically Responsive Epilepsy," at the Epilepsy Educator' Conference, October 23, Palm Beach, Florida.
34. "Pathology of Childhood Epilepsy: Effects of Maturation on Neuroimaging," at the *Pediatric Symposium on Brain Imaging Techniques in Children with Epilepsy*, Annual Meeting of the *American Epilepsy Society*, December 3, 1999, Orlando, Florida.
35. "Seizure-Induced Neuronal Injury in the Maturing Brain," at the symposium *Neuroprotection: Implications for the Future Clinical Management of Epilepsy*, Annual Meeting of the *American Epilepsy Society*, December 5, 1999, Orlando, Florida.
36. "Are Infrequent Seizures Harmful?" Speaker at the participatory roundtable, Annual Meeting of the *American Epilepsy Society*, December 5, 1999, Orlando, Florida.

37. "Seizure-Induced Injury and Plasticity in the Immature Brain," Grand Rounds at the Department of Neurology, School of medicine, *St. Louis University*, January 13, 2000, St. Louis, Missouri.
38. "Advances in the Treatment of Pediatric Seizure Disorders," Grand Rounds at the Department of Pediatrics, College of Medicine, *University of Iowa*, January 14, 2000, Iowa City, Iowa.
39. "Rational Use of Anticonvulsants in Pediatric Epilepsy," at a continuing education program sponsored by the *University of South Florida*, February 26, 2000, Tampa, Florida.
40. "Impact of Seizures on the Developing Brain: Injury and Plasticity," Grand Rounds of the Department of Neurology, *State University of New York*, April 5, 2000, Syracuse, New York.
41. "The Impact of AEDs on Brain Development: Neurocompromise vs. Neuroprotection," in a symposium on the "Clinical Uses of Antiepileptic Drugs," sponsored by the *Children's Hospital & Regional, Medical Center, University of Washington School of Medicine, and the Regional Epilepsy Center, Harborview Medical Center*, May 5, 2000, Seattle, Washington.
42. Several topics on pediatric epilepsy at the "Pediatric Epilepsy Preceptorship" sponsored by the *Bowman Gray Medical School of Wake Forest University*, June 22-23, 2000, Winston-Salem, North Carolina.
43. Visiting Professor, presentations to the epilepsy faculty, Department of Neurology, case conferences, and Grand Rounds of the Neurosurgery Department, University of Michigan, July 17-19, 2000, Ann Arbor, Michigan.
44. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA September, 2000, Los Angeles, CA.
45. Symposium Chair for "Pediatric Epilepsy: From Bench to Clinical Practice" and speaker: "Pediatric Epilepsy for the Adult Neurologist," at the Annual Meeting of the American Epilepsy Society, December 2, 2000, Los Angeles, California.
46. Chairman, Special Interest Group on "Basic Neuroscience" at the Annual Meeting of the American Epilepsy Society, December 5, 2000, Los Angeles, California.
47. "Seizures in the Developing Brain," Grand Rounds at the *Primary Children's Hospital, University of Utah*, Jan 10, 2001, Salt Lake City, Utah.
48. "AED Use in Pediatrics," and "Oxcarbazepine and Zonisamide," in a Continuing Medical Education program on New Anticonvulsants at the *Case Western Reserve University School of Medicine*, February 17, 2001, Cleveland, Ohio.
49. "Pharmacology and Therapeutics of AEDs in Pediatric Patients," in a Continuing Medical Education program on Pediatric Neurology at *University of Southern Florida School of Medicine*, March 10, 2001, St. Petersburg Beach, Florida.
50. Several lectures and workshop leader at the Kiffin Penry Memorial Epilepsy Mini-fellowship sponsored by Wake Forest University School of Medicine, March 15-18, 2001, Winston-Salem, North Carolina.
51. "Prevention of Epileptogenesis as a Goal for Treatment with AEDs," *Wake Forest University School of Medicine, Bowman Gray Campus*, June 7, 2001, Winston-Salem, North Carolina.
52. "Pharmacologic Treatment of Childhood Epilepsy," *Cook's Children's Medical Center*, August 8, 2001, Fort Worth, Texas.

53. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 2001, Los Angeles, California.
54. "Treatment of Pediatric Epilepsy – Present and Future," at Southern Regional Epilepsy Symposium, September 7-8, 2001, Asheville, North Carolina.
55. "Applications of Positron Emission Tomography in Epilepsy and Autism," Breakfast Symposium, *Annual Meeting of the Child Neurology Society*, October 20, 2001, Victoria, British Columbia, Canada.
56. "Drug Selection in Gender- and Age-Based Population: Pediatric Patients," in "A Contemporary Assessment of seizures and Epilepsy." A *Merritt-Putnam Lecture Series* sponsored by the *American Epilepsy Society*. Program was developed by Drury I, Ferrendelli JA, Ramsay RE and **Sankar R**. November 10, 2001, Detroit, Michigan.
57. "Epilepsy and the Developing Brain," Neurology grand Rounds, *University of Medicine and Dentistry of New Jersey*, January 16, 2002, and the VA Hospital, Orange, New Jersey.
58. "The Developing Brain – Seizures, Injury, Antiepileptic Drugs," Neurology Grand Rounds, *School of Medicine, State University of New York Downstate*, January 18, 2002, Brooklyn, New York.
59. "Use of AEDs in Neurological Disorders," Grand Rounds at the *South Beach Psychiatric Hospital*, January 18, 2002, Staten Island, New York.
60. "The Developing Brain – How to Optimize the Choice of AEDs?" Grand rounds of the Department of Neurology, *Loma Linda University School of Medicine*, February 6, 2002, Loma Linda, California.
61. Several lectures and workshop leader at the Kiffin Penry Memorial Epilepsy Mini-fellowship sponsored by *Wake Forest University School of Medicine*, February 28 – March 2, 2002, Winston-Salem, North Carolina.
62. "Pediatric Epilepsy Syndromes," and Breakfast Case Studies at the *Uniformed Services Pediatric Seminar* sponsored by the *American Academy of Pediatrics*, March 14, 2002, San Diego, California.
63. "Epilepsy and the developing Brain," at the *Children's Hospital of Wisconsin*, March 22, 2002, Milwaukee, Wisconsin.
64. "Selection of Anticonvulsants in the Pediatric Patient," *Merritt-Putnam Lectures on Epilepsy*, American Epilepsy Society, May 4, 2002, Baltimore, Maryland.
65. "Selection of Anticonvulsants in the Pediatric Patient," *Merritt-Putnam Lectures on Epilepsy*, *American Epilepsy Society*, May 18, 2002, San Francisco, California.
66. "Seizure-Induced Injury and Plasticity in the Developing Brain," Neurology Grand Rounds at *University of Arizona*, May 31, 2002, Tucson, Arizona.
67. Several lectures and workshop leader at the Kiffin Penry Memorial Epilepsy Mini-fellowship sponsored by *Wake Forest University School of Medicine*, June 20-22, 2002, Winston-Salem, North Carolina.
68. "Status Epilepticus Induced Epileptogenicity in the Developing Brain," Grand Rounds of the Department of Neurology, School of Medicine, *University of Utah*, July 10, 2002, Salt Lake City, Utah.
69. "Pediatric Epilepsy Syndromes – a Current Perspective," in the 2002 Epilepsy Symposium presented by the *University of New Mexico School of Medicine*, August 24, 2002, Santa Ana Pueblo, New Mexico.

70. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 2002, Los Angeles, California.
71. "Medically Refractory Pediatric Epilepsy," "Seizures and the Developing Brain," and "A New Look at Pediatric Epilepsy Syndromes," presentations to medical students and pediatric residents, Pediatric and Neurology Grand Rounds, respectively, at *Oregon Health Sciences University*, September 18-19, 2002, Portland, OR.
72. "Pharmacology of Anticonvulsant Action," to the Adult and Pediatric Epilepsy Groups at *Duke University*, November 10, 2002, Durham, North Carolina.
73. Invited speaker in a Participatory Roundtable on "Neurodevelopmental Effects of Epilepsy on Learning/Behavior and Brain Structure in Humans and Animals," at the Annual Meeting of the *American Epilepsy Society*, December 8, 2002, Seattle, Washington.
74. Several lectures and workshop leader at the Kiffin Penry Memorial Epilepsy Mini-fellowship sponsored by *Wake Forest University School of Medicine*, June 20-21, 2003, Winston-Salem, North Carolina.
75. One of two principal guest faculty (several lectures on epilepsy, anticonvulsant drugs and on management of status epilepticus) at the "Current Concepts in Child Neurology: San Diego 2003," a Continuing Medical Education Program offered every three years by the *Children's Hospital and Health Center of San Diego*, June 27-29, 2003, San Diego, California.
76. "Brain Injury and Plasticity in the Developing Rat," Grand Rounds in the Department of Neurology at the *Medical University of South Carolina*, July 10, 2003, Charleston, South Carolina.
77. "How Do Seizures Affect the Infant Brain?" Pediatric Grand Rounds at the *Pritzker School of Medicine*, University of Chicago, September 4, 2003, Chicago, Illinois.
78. "Seizures and the Developing Brain: Injury, Neurogenesis and Circuit Rearrangement," Neurology Grand Rounds at *Rush Medical School and Rush Presbyterian St. Luke's Hospital*, September 4, 2003, Chicago, Illinois.
79. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 2003, Los Angeles, California.
80. Faculty in Neurology at "PREP: The Course," sponsored by the *American Academy of Pediatrics*, September 13 – 16, 2003, Salt Lake City, Utah.
81. "Pediatric Seizure Disorders and Their Treatment," Pediatric Grand Rounds at *Blank Children's Hospital*, October 24, 2003, Des Moines, Iowa.
82. "Seizure Disorders: How to Diagnose & When to Refer?" Seminar at the National Conference and Exhibition of the American Academy of Pediatrics, November 4, 2003, New Orleans, Louisiana.
83. "Classification of Status Epilepticus," Spoke in and moderated a Participatory Roundtable at the *Annual Meeting of the American Epilepsy Society*, December 7, 2003, Boston, Massachusetts.
84. "Early Treatment of Epilepsy: What If the First Drug Fails?" Presentation to Epilepsy/Clinical Neurophysiology Fellows in Training at the TOPScholars Symposium, *Annual Meeting of the American Epilepsy Society*, December 9, 2003, Boston, Massachusetts.
85. "Monotherapy with Antiepileptic Drugs in Pediatric Epilepsy," at a special symposium at the *Annual Meeting of the Southern Clinical Neurological Society*, January 16, 2004, St. Thomas, Virgin Islands.

86. "Neonatal Seizures: A Challenge in Bench to Bedside Translation," Presentation to the Division of Pediatric Neurology at *University of California San Francisco*, March 10, 2004, San Francisco, California.
87. "Monotherapy versus Polypharmacy in the Treatment of Epilepsy," at *Oakland Children's Hospital*, March 17, 2004, Oakland, California.
88. "Molecular Targets of Anticonvulsant Action," at the Department of Neurology, *Rush Medical School*, June 24, 2004, Chicago, Illinois.
89. "AES and AAN Recommendations on New AEDs: Practice parameters," Commentary and a Discussion on "New Paradigm for Treatment of New Onset Epilepsy" at *Children's Memorial Hospital*, June 24, 2004, Chicago, Illinois.
90. "Seizures and the Developing Brain: Cellular Injury, Neurogenesis and Circuit Rearrangement," at the *Children's Hospital of Wisconsin*, June 25, 2004, Milwaukee, Wisconsin.
91. "Molecular Targets for Anticonvulsant Pharmacotherapy in the Mature and Developing Brain," Department of Neurology Grand Rounds at the *Medical University of South Carolina*, August 12, 2004, Charleston, South Carolina.
92. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 2004, Los Angeles, California.
93. "Seizure-Induced Injury and Plasticity in the Developing Brain," Neurology Grand Rounds at *University of Texas Medical School*, September 9, 2004, San Antonio, Texas.
94. "A New Paradigm for the Treatment of Epilepsy," at *Wilford Hall Medical Center, Lackland Air Force Base*, September 9, 2004, San Antonio, Texas.
95. "Selecting Pharmacotherapy: Decision Making in Pediatric Epilepsy," at a satellite symposium on *Current Guidelines for the Treatment of Pediatric Epilepsy* at the *Annual Meeting of the Child Neurology Society*, October 16, 2004, Ottawa, Canada.
96. "Genetics of the Epilepsies," and "New Recommendations for Pharmacotherapy of Childhood Epilepsy Syndromes," at *New Horizons in Epilepsy*, a conference at the *University of Oklahoma (OUHSC)*, November 5, 2004, Oklahoma City, Oklahoma.
97. "New AEDs; is Rational Polypharmacy Feasible?" at the *Annual Neurology Conference of the Army Medical Department (AMEDD)*, November 16, 2004, Silver Springs, Maryland.
98. "Current Concepts in Epileptogenesis," at the *Floating Hospital for Children, New England Medical Center*, November 19, 2004, Boston, Massachusetts.
99. "Refractory Status Epilepticus: Why does it Occur and What to Do About It?" at the XVII Penry Minifellowship at the *Annual Meeting of the American Epilepsy Society*, December 4, 2004.
100. Introductory presentation and symposium moderator for the satellite symposium on "Neuroprotection in Epilepsy," at the *Annual Meeting of the American Epilepsy Society*, December 5, 2004.
101. "Mechanisms of AED Action and an Approach to Rational Polypharmacy," at the Winter meeting of the *Texas Neurological Society*, February 11, 2005, Austin, Texas.
102. "Molecular Targets of Antiepileptic Drugs: Potential for Novel Therapeutic Regimens," Neurology Grand Rounds at *St. Louis University School of Medicine*, February 17, 2005, St. Louis, Missouri.
103. "Therapeutic Advances in the management of Childhood Epilepsy," to the Division of Pediatric Neurology at *Cardinal Glennon Children's Hospital*, February 18, 2005, St. Louis, Missouri.

104. "Pharmacologic Diversity in Anticonvulsant Medications," presentation to neurology residents at *University of South Alabama*, March 29, 2005, Mobile, Alabama.
105. "Bench to Bedside Challenges in the Management of Neonatal Seizures," Neurology Grand Rounds, *University of Alabama at Birmingham*, March 30, 2005, Birmingham, Alabama.
106. "Seizure-induced Brain Injury in the Developing Brain," Neuroscience Grand Rounds, Barrow Neurological Institute, May 18, 2005, Phoenix, Arizona.
107. "Seizures and the Developing Brain: Scientific and Clinical Aspects," Neurology Grand Rounds, *Wayne State University School of Medicine*, May 20, 2005, Detroit, Michigan.
108. "Consequences of Status Epilepticus in the Developing Brain," Neurology Grand Rounds, *Boston University Medical Center*, May 31, 2005, Boston, Massachusetts.
109. "Studies on Seizure-induced Brain Injury as a Function of Seizure Duration," Epilepsy Research Conference, *Massachusetts General Hospital, Harvard medical School*, May 31, 2005, Boston, Massachusetts.
110. Case conference in pediatric epilepsy surgery," *Children's Medical Center, University of Texas Southwestern Medical School*, July 20, 2005, Dallas, Texas.
111. "Optimization of Pharmacotherapy in Epilepsy," to residents from *University of Texas, San Antonio Department of Neurology*, July 21, 2005, San Antonio, Texas.
112. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 2005, Los Angeles, California.
113. "Consequences of Seizures on the Developing Brain," at the symposium on *Localization-related Epilepsy in Children – Annual Meeting of the Child Neurology Society*, September 29, Los Angeles, California.
114. "Narrow vs. Broad Spectrum AEDs in Focal Epilepsy: Can Mechanism Guide Optimal Use?" at the symposium on the *Role of AEDs in Pediatric Focal Epilepsies - Annual Meeting of the Child Neurology Society*, September 29, Los Angeles, California.
115. "Medically Refractory Epilepsy," a seminar at the *National Conference & Exhibition of the American Academy of Pediatrics*, October 10, 2005, Washington, DC.
116. "Optimization of Therapy in Epilepsy: Impact of New AEDs," at the *Department of Neurology, Harborview Hospital, University of Washington*, November 8, 2005, Seattle, Washington.
117. "Optimization of Pharmacotherapy in Epilepsy," at *Madigan Army Medical Center*, November 9, 2005, Tacoma, Washington.
118. "Selecting Pharmacotherapy: Decision Making in Pediatric Epilepsy," at *Rainier School, Division of Developmental Disabilities, Washington State Department of Social & Health Services*, November 9, 2005, Buckley, Washington.
119. "Of Science and Semantics: Concept of Impending Status Epilepticus," at the Clinical Roundtable, *Annual Meeting of the American Epilepsy Society*, December 3, 2005, Washington D.C.
120. "On Presynaptic versus other sites of action of AEDs," Invited discussant at the Basic Science Special Interest Group Round Table, *Annual Meeting of the American Epilepsy Society*, December 6, 2005, Washington D.C.

121. "Mechanisms of Epileptogenesis as a Basis for the Design of Rational Therapeutics," Neuroscience Grand Rounds at the *Children's Hospital of Philadelphia – University of Pennsylvania*, February 23, 2006, Philadelphia, Pennsylvania.
122. "The Place for Polypharmacy in Pediatric Epilepsy," Invited plenary lecture at the Annual Winter Meeting of the *Texas Neurological Society*, February 24, 2006, Austin, Texas.
123. "Modifiers of Seizure-Induced Brain Injury in the Developing Brain," Neuroscience Grand Rounds at the *McKnight Mind-Brain Research Institute*, Department of Neurology, *University of Florida*, March 7, 2006, Gainesville, Florida.
124. "Epileptogenic Mechanisms and Rational Design of Antiepileptic Therapy," Presentation to neurology residents and faculty at the *Pritzker School of Medicine, University of Chicago*, March 27, 2006, Chicago, Illinois.
125. "Mechanisms of Epileptogenesis as a Basis for the Design of Rational Therapeutics," Presentation at Neurology Grand Rounds at the *Upstate Medical Center, State University of New York*, April 19, 2006, Syracuse, New York.
126. "Therapeutics of Epilepsy: Relationship to Mechanisms of Epileptogenesis," at the weekly epilepsy conference at the *Miami Children's Hospital*, May 31, 2006, Miami, Florida.
127. "Epileptogenic Mechanisms and Therapeutics in Partial and Generalized Epilepsies," *Children's Hospital and Regional Medical Center*, June 16, 2006, Seattle, Washington.
128. "Neurobiology of Depression in Epilepsy," at a symposium on the *Behavioral Aspects of Epilepsy*, June 16-17, 2006, Boise, Idaho.
129. Several lectures and workshop leader at the *Kiffin Penry Memorial Epilepsy Mini-fellowship* sponsored by *Wake Forest University School of Medicine*, August 10-12, 2006, Winston-Salem, North Carolina.
130. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September, 2006, Los Angeles, California.
131. "Mechanisms of Epilepsy and Antiepileptic Therapy," *Cardinal Glennon Children's Hospital, St. Louis University School of Medicine*, Sept 8, 2006, St. Louis, Missouri.
132. "Do Neonatal Seizures Cause Brain Injury?" at the 11<sup>th</sup> Annual Pediatric Neurosciences Symposium, *Barrow Neurological Institute*, Oct 28, 2006, Phoenix, Arizona.
133. Hot Topics Symposium at the 1<sup>st</sup> *North American Regional Epilepsy Congress*, Session co-chaired with Dr. Andrey Mazarati, Dec 1, 2006, San Diego, California.
134. Chair, Basic Mechanisms of Epilepsy Special Interest Group, 1<sup>st</sup> *North American Regional Epilepsy Congress*, Dec 1, 2006, San Diego, California.
135. Speaker at the Neuropharmacology Roundtable, 1<sup>st</sup> *North American Regional Epilepsy Congress*, Dec 2, 2006, San Diego, California.
136. "New Options for Management of Primary Generalized Tonic Clonic Seizures in Children," at *San Diego Children's Hospital*, March 13, 2007, San Diego, California.
137. "Seizure Mechanisms and AED Pharmacology," Neurology Grand Rounds at *Downstate Medical Center of the State University of New York*, April 27, 2007, Brooklyn, New York.
138. "Generators of Focal and Generalized Seizures – Channels, Networks and AEDs," Neurology Grand Rounds at *University of Cincinnati*, May 2, 2007, Cincinnati, Ohio.



139. "Medically Refractory Epilepsy," at the *Children's Hospital of Cincinnati*, May 2, 2007, Cincinnati, Ohio.
140. "Update on the Pharmacology of Antiepileptic Drugs," at the *Children's Hospital of Columbus*, May 3, 2007, Columbus, Ohio.
141. "Explorations in Translational Epilepsy Research," at the Department of Neurology, *Medical University of South Carolina*, May 21, 2007, Charleston, South Carolina.
142. "Seizures, AEDs, and the Developing Brain," invited presentation at the *NINDS, NIH, Workshop on Neonatal Seizures*, May 31-June 1, 2007, Bethesda, Maryland.
143. "Decision making in Pediatric Epilepsy Therapeutics," at *Children's Hospital of the King's Daughters*, July 27, 2007, Norfolk, Virginia.
144. Faculty, *Pediatric Board Review Course*, UCLA Department of Pediatrics and Mattel Children's Hospital at UCLA, September 4, 2007, Los Angeles, California.
145. "Animal Models in the Development of AEDs," moderated the Basic Science Special Interest Group at the *Annual Meeting of the American Epilepsy Society*, November 30, 2007, Philadelphia, Pennsylvania.
146. "Discontinuation of AEDs – what do we know from animal models?" presentation at the Annual Course at the *Annual Meeting of the American Epilepsy Society*, December 2, 2007, Philadelphia, Pennsylvania.
147. "Comorbidities of Epilepsy: Development of an Animal Model of Epileptogenesis-associated Depression," *Pediatric Neurology Grand Rounds at Texas Children's Hospital – Baylor College of Medicine*, March 12, 2008, Houston, Texas
148. Several lectures and workshop leader at the *Kiffin Penry Memorial Epilepsy Mini-fellowship* sponsored by *Wake Forest University School of Medicine*, March 27-29, 2008, Winston-Salem, North Carolina.
149. "Priorities in Epilepsy Therapy Development," at *Gillette Children's Specialty Hospital*, April 11, 2008, St. Paul, Minnesota.
150. "Investigations in Antiepileptogenic Therapy and the Neurobiology of Depression," at *Children's National Medical Center*, May 15, 2008, Washington DC.
151. "Therapy Targeting Antiepileptogenesis in the Developing Brain," Epilepsy Grand Rounds at *Johns Hopkins University School of Medicine*, May 28, 2008, Baltimore, Maryland.
152. "Rapid Kindling in the Investigation of Antiepileptogenesis and the Mechanism of Depression in Epilepsy," *University of Maryland School of Medicine*, May 28, 2008, Baltimore, Maryland.
153. "Translational Epilepsy Research," Neurology Grand Rounds at *George Washington University School of Medicine*, May 29, 2008, Washington DC.
154. "Pediatric Epilepsy Syndromes – Diagnosis and Management," Neurology Grand Rounds at *Howard University School of Medicine*, May 29, 2008, Washington DC.
155. "Curing Epilepsy 2007 - NINDS Benchmarks for Research: Progress at UCLA" Epilepsy Grand Rounds at the *Neurologic Institute, Cleveland Clinic Educational Foundation*, July 25, 2008, Cleveland, Ohio.

156. "Investigations on Depression in Epilepsy," at the *Behavioral Aspects of Neurological Disease Conference*, October 11, 2008, Sun Valley, Idaho.
157. "Future of Epilepsy Therapeutics: Testing Development-Specific Targets," at a breakfast symposium at the Annual Meeting of the *Child Neurology Society*, November 6, 2008, Santa Clara, California.
158. "Translational Epilepsy Research – Antiepileptogenic Therapeutics and Modeling Comorbidities," Grand Rounds of the Department of Neurology, *State University of New York*, November 12, 2008, Syracuse, New York.
159. "New Treatments for Epilepsy on the Horizon," at the Advances in the Management of Epilepsy and the Epilepsy Clinic symposium at the Annual Meeting of the American Epilepsy Society, December 5, 2008, Seattle, Washington.

**Regional:**

1. "Diagnosis and Management of Seizures in the Pediatric Patient," presented to the pediatric staff at *Southern California Permanente Medical Group*, May 13, 1992, Los Angeles, California.
2. "Status Epilepticus in the Pediatric Patient," Grand Rounds of the Department of Pediatrics, *UCLA School of Medicine*, August 7, 1992, Los Angeles, California.
3. "Cortical Microdysgenesis: Evolution of Changes in the White Matter Signal in the MRI with Development in Children with Infantile Spasms" and "Amino acid Neurotransmitters in Status Epilepticus in the Developing Rat Brain" - Presentation to the Neurology Department at the *Children's Hospital of Los Angeles*, June 22, 1993, Los Angeles, California.
4. "Pediatric Epileptic Syndromes" presented to the combined pediatric medical staff of Santa Monica Hospital and St. John's Medical Center, Santa Monica, at *Santa Monica Hospital*, June 23, 1993, Santa Monica, California.
5. "Diagnosis and Management of Headaches" - Pediatric Grand Rounds, *Olive View Medical Center*, July 21, 1993, Sylmar, California.
6. "Neuromuscular Diseases in Infants and Children" - presented to the pediatric staff at *Southern California Permanente Medical Group* on August 18, 1993, Los Angeles, California.
7. "Pediatric Epileptic Syndromes" and "Clinical Research Vignette on Infantile Spasms," Grand Rounds of the Department of Pediatrics, *UCLA School of Medicine*, August 20, 1993, Los Angeles, California.
8. "Pediatric Experience with Felbamate, a New Anticonvulsant," one of the several presentations on Felbamate at the Grand Rounds of the Department of Neurology, *UCLA School of Medicine*, October 6, 1993, Los Angeles, California.
9. "Developmental Changes in Amino Acid Neurotransmitters in the Rat caused by Status Epilepticus," one of the several presenters on "Issues in Pediatric Epilepsy" at the Grand Rounds of the Department of Neurology, *UCLA School of Medicine*, October 1993, Los Angeles, California.
10. "Epilepsy in Infants, Children, and Adolescents," Grand Rounds of the Department of Pediatrics, *White Memorial Hospital*, December 2, 1993, Los Angeles, California.
11. "Seizure Disorders," presented to the medical staff of *La Palma Intercommunity Hospital*, February 28, 1994, La Palma, California.
12. Workshop on "Common Neurologic Problems in the Adolescent Patient" - *Society for Adolescent Medicine*, Annual Meeting, March 16, 1994, Los Angeles, California.

13. "Neurological Aspects of Tuberous Sclerosis," *Medical Education Conference sponsored by the National Tuberous Sclerosis Association*, June 11, 1994, University of California, Los Angeles, Los Angeles, California.
14. "Re-evaluation of Patients with Epilepsy in the Light of Newly Released Antiepileptic Agents," *Daniel Freeman Hospital*, June 24, 1994, Marina del Rey, Los Angeles, California.
15. "Pharmacology of New Anticonvulsants," Department of Neurology, *UCLA School of Medicine*, August 31, 1994, Los Angeles, California.
16. "MRI in Cortical Dysplasia," to Epilepsy/Clinical Neurophysiology fellows, Department of Neurology, *UCLA School of Medicine*, September 8, 1994, Los Angeles, California.
17. "Epilepsy and the Adolescent," Department of Adolescent Medicine, *Children's Hospital of Los Angeles / USC School of Medicine*, September 9, 1994, Los Angeles, California.
18. "Headaches in the Pediatric Patient," presented to the pediatric staff at *Southern California Permanente (Kaiser) Medical Group*, November 16, 1994, Los Angeles, California.
19. "Current Management of Epilepsy," presented to the medical staff at *Pacifica Hospital of the Valley*, November 18, 1994, Sylmar, California.
20. "Anticonvulsant Drugs: Old and New," at *Living Well with Epilepsy: Current Practice, New Hope, A* continuing education seminar for nurses, November 19, 1994, Los Angeles, California.
21. "Update on the Treatment of Epilepsy," presented to the medical staff at *Robert F. Kennedy Medical Center*, January 5, 1995, Hawthorne, California.
22. "Antiepileptic Therapy: Pharmacologic Principles," a continuing education seminar for clinical pharmacists, February 23, 1995, Pasadena, California.
23. "Headaches: Update on the Understanding of Mechanisms and Management," at the Department of Neurology, *Southern California Permanente (Kaiser) Medical Group*, March 1, 1995, Los Angeles, California.
24. "Neuroimaging and the Developing Brain: Detection of Microscopic Cortical Dysplasia," Grand Rounds of the Department of Neurology, *UCLA School of Medicine*, April 5, 1995, Los Angeles, California.
25. "Epilepsy: Classification, Syndromes; Diagnosis," and "Antiepileptic Drugs," at the *UCLA / Parke-Davis Epilepsy Training Seminar* for the Parke-Davis Neuroscience Medical Team, *UCLA Medical Center*, April 11, 1995, Los Angeles, California.
26. "GABA Metabolism, Development, and Status epilepticus," Grand Rounds of the Department of Pediatrics, *UCLA School of Medicine*, April 14, 1995, Los Angeles, California.
27. "Pharmacology of New Anticonvulsants," at *Fairview Developmental Center*, May 10, 1995, Costa Mesa, California.
28. "Pharmacology of New Anticonvulsants," to *Orange County Society of Health-System Pharmacists*, May 10, 1995, Santa Ana, California.
29. "New Generation Anticonvulsants: Pharmacology and Clinical Applications," at *Lanterman Regional Developmental Center*, June 16, 1995, Pomona, California.

30. "An approach to the Diagnosis and Management of Headaches in the Adolescent Patient," at the Department of Adolescent Medicine, *Childrens Hospital of Los Angeles*, August 4, 1995, Los Angeles, California.
32. "A Comprehensive Approach to the Classification, Diagnosis, and Management of Seizure Disorders," a continuing education program sponsored by the *Kern County Department of Pediatrics*, September 19, 1995, Bakersfield, California.
33. "Neurotransmitters, Ion Channels, and Antiepileptic Drugs," Grand Rounds at the Department of Neurology, *Harbor - UCLA Medical Center*, December 15, 1995, Torrance, California.
34. "A Review of New Generation Anticonvulsants," Meeting of the *Orange County Neurologic Society*, March 12, 1996, Costa Mesa, California.
35. "Diagnosis and Management of Headaches," Grand Rounds of the Department of Pediatrics, *Olive View - UCLA Medical Center*, March 27, 1996, Sylmar, California.
36. "Carnitine, Inborn Errors of Metabolism, and Valproic acid," at the Department of Neurology, *Kaiser Permanente Medical Center*, October 2, 1996, Los Angeles, California.
37. "Management of Intractable Epilepsy in the Developmentally Disabled Patient," at the *Lanterman Development Center*, December 13, 1996, Pomona, California.
38. "New Treatment Options in Pediatric Epilepsy," at the Merritt-Putnam Epilepsy Speakers Bureau, February 21-23, 1997, Santa Fe, New Mexico.
39. "Classification, Etiology and neurophysiology of Cerebral Palsy," at *Cerebral Palsy*, A conference for neurologists, pediatricians, neurosurgeons, orthopedic surgeons and physical therapists, March 1, 1997, Los Angeles, California.
40. "Carnitine and the Patient with a Seizure Disorder," at the Department of Neurology of the *West Los Angeles VA Hospital*, May 16, 1997, Los Angeles, California.
41. "Disorders of Lipid  $\beta$ -Oxidation: Neurologist's Perspective," at the *Annual Neurology Symposium for Kaiser Permanente Medical Group*, September 18, 1997, Pasadena, California.
42. "Seizure-related Brain Damage in the Immature Brain," Neurology Grand Rounds, *Harbor-UCLA Medical Center*, September 19, 1997, Torrance, California.
43. "Epilepsy Treatment Options in Special Populations: The Adolescent Patient," at the *Merritt-Putnam Epilepsy Speakers Bureau*, September 27, 1997, La Jolla, California.
44. "Update on new Antiepileptic Drugs," Continuing Education program for Pharmacists, *Kaiser Permanente Medical Center*, October 7, 1997, West Los Angeles, California.
45. "Diagnosis and Management of Headaches and Head Injuries," at *Nursing Issues in Ambulatory Pediatrics*, October 23, 1997, Anaheim, California.
46. "Pediatric Epilepsy," lecture to medical residents at *White Memorial Hospital*, February 19, 1998, Los Angeles, California.
47. "Basic and Clinical Pharmacology of Antiepileptic Drugs," at the Department of Neurology, *Children's Hospital of Los Angeles*, February 24, 1998, Los Angeles, California.
48. "Classification and Etiology of Cerebral Palsy," at the 2<sup>nd</sup> Annual Margaret Jones Conference, *Recent Advances in the Treatment of Cerebral Palsy*, *UCLA Medical Center*, March 28, 1998, Los Angeles, California.

49. "Classification, Etiology, and Emerging Approaches to Prevention, of Cerebral Palsy," at the *Advanced Perinatal/Neonatal Nursing Conference*, May 14, 1998, Oxnard, California.
50. "Status Epilepticus in Children," Grand Rounds at *Miller Children's Hospital/Long Beach Memorial Hospital*, May 15, 1998, Long Beach, California.
51. "Evaluation and Management of a Child with a Seizure Disorder," Grand Rounds of the *Department of Family Medicine*, UCLA School of Medicine, June 19, 1998, Los Angeles, California.
52. "Mechanism of Action of New Antiepileptic Drugs," and "Alternative Therapies: The Ketogenic Diet," at the *Merritt-Putnam Lectures on Epilepsy*, July 11, 1998, Santa Monica, California. Also chaired this half-day program with a nationally selected faculty.
53. "Perspectives on Neurontin<sup>®</sup> In Epileptic Syndromes of Infancy and Childhood," *Merritt-Putnam Speaker's Bureau Meeting*, October 3, 1998, Palm Springs, California.
54. "Advances in Epilepsy Therapy: A Pediatric Perspective," at the *Annual Meeting of the California Society of Health System Pharmacists*, October 22-25, 1998, Anaheim, California.
55. "Epilepsy Surgery: Indications in Adults and Children," at the *Merritt-Putnam Lectures on Epilepsy*, Oct 31, 1998, Costa Mesa, California.
56. "Recent Advances in the Treatment of Seizure Disorders," at Neurology Grand Rounds, *Cottage Hospital*, November 23, 1998, Santa Barbara, California.
57. "Treatment of Seizure Disorders in Children and Young Adults," at *Family Medicine Grand Rounds*, Loma Linda University, December 4, 1998, Loma Linda, California.
58. "Pediatric Epilepsy Syndromes and their Treatment," *Department of Pediatrics, Cedars Sinai Medical Center*, January 8, 1999, Los Angeles, California.
59. "The Ups and Downs of Epilepsy Treatments for Children," *Epilepsy Education Conference* sponsored by the Epilepsy Foundation, March 27, 1999, Anaheim, California.
60. "Advances in the Treatment of Epilepsy," *Department of Family Medicine, Arrowhead Regional Medical Center*, April 6, 1999, San Bernardino, California.
61. "Genetics of Epilepsy" and "Comprehensive Review of Anticonvulsants" for a *Ortho-McNeil Pharmaceutical Company* sponsored preceptorship for West Coast sales personnel, held at UCLA, April 7 and 8, 1999, Los Angeles, California.
62. "Metabolic and Neurodegenerative Disorders," Neurology Grand Rounds, *Harbor-UCLA Medical Center*, May 21, 1999, Torrance, California.
63. "Treatment of Epilepsy: Considerations in the Management of Special Populations," at *the First Annual Western CNS Conference* of the Institute of Medical Studies, July 18, 1999, Yosemite National Park, California.
64. "Epilepsy 2000: New understandings and Emerging Treatments," Pediatric Grand Rounds, *UCLA School of Medicine*, February 11, 2000, Los Angeles, California.
65. "Advances in the Diagnosis and Treatment of Epilepsy, 2000," Family Medicine Grand Rounds, *Loma Linda University school of Medicine*, March 10, 2000, Loma Linda, California.
66. "Epilepsy at the Turn of the Millennium: Advances in Therapeutics," Grand Rounds, Department of Neurology, *UCLA School of Medicine*, May 10, 2000, Los Angeles, California.
67. "Status Epilepticus in the Pediatric Patient," Pediatric Grand Rounds, *UCLA School of Medicine*, August 11, 2000, Los Angeles, California.

68. "Floppy Infant, Stumbling Child: Weakness in the Pediatric patient," Pediatric Grand Rounds, *UCLA School of Medicine*, January 5, 2001, Los Angeles, California.
69. "Seizures in the Developing Brain: Injury, Neurogenesis, and Plasticity," Grand Rounds of the Department of Neurology, *UCLA School of Medicine*, January 31, 2001, Los Angeles, California.
70. "Seizure-Induced Epileptogenicity in the Developing Brain," Grand Rounds of the Department of Neurology, *Keck School of Medicine, University of Southern California*, February 6, 2001, Los Angeles, California.
71. "GABA, Glycine, and Animal Models of Epilepsy," Lecture to Neurology Resident Lecture Series, Department of Neurology, *UCLA School of Medicine*, February 7, 2001, Los Angeles, California.
72. "Neonatal Seizures: Scientific and Clinical Challenges in Management," to the Division of Neonatology, Department of Pediatrics, *UCLA School of Medicine*, March 27, 2001, Los Angeles, California.
73. "Impact of Seizures on the Immature Brain," to the Division of Pediatric Neurology, *Children's Hospital of Los Angeles*, March 27, 2001, Los Angeles, California.
74. "Pediatric Seizure Syndromes," and "Pharmacology of Antiepileptic Drugs," *VA Greater Los Angeles Healthcare System, West Los Angeles VA Hospital*, March 30, 2001, Los Angeles, California.
75. "Drug Selection in Gender- and Age-Based Population: Pediatric Patients," in "A Contemporary Assessment of seizures and Epilepsy." *A Merritt-Putnam Lecture Series sponsored by the American Epilepsy Society*. Program developed by Drury I, Ferrendelli JA, Ramsay RE and Sankar R. Also chaired the program on: September 29, 2001, Los Angeles, California.
76. "A Contemporary Look at Pediatric Epilepsy Syndromes," Neurology Grand Rounds, *Harbor-UCLA Medical Center*, May 10, 2002.
77. "Epilepsy in Childhood and Adolescence," in a Symposium on *Women and Epilepsy for Healthcare Professionals*, June 29, 2002, Santa Monica, California.
78. "Brain Injury from Seizures in the Developing Brain," at the *UC Neurotrauma Meeting*, Aug 8, 2002, Silverado Resort, Napa, California.
79. "Neurochemistry of GABA and Glycine," "Animal Models of Epilepsy," and "A Neurologist's Approach to Metabolic Disease," Lectures to Neurology Resident Lecture Series, Department of Neurology, *UCLA School of Medicine*, December 4, 2002, Los Angeles, California.
80. "Through the Glass, Darkly: Reflections & Observations on My Decade at UCLA Caring for Children with Epilepsy," **Tenth Annual William F. Friedman Lecture**, *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, January 24, 2003, Los Angeles, California.
81. "Migraines and Epilepsy – What is the Relationship?" Grand Rounds presentation at the Neurology Grand Rounds at the *West Los Angeles Veterans Administration Hospital*, January 31, 2003, Los Angeles, California.
82. "A Young Boy with Medically Refractory Epilepsy," Clinico-Pathological Conference, Neurology Grand Rounds, *David Geffen School of Medicine at UCLA*, March 5, 2003, Los Angeles, California.
83. "Antiepileptic Drugs, Ion Channels, and Other Targets for Anticonvulsant Action," Lecture given as part of Neurology Resident Lecture Series, Department of Neurology, *David Geffen School of Medicine at UCLA*, August 27, 2003, Los Angeles, California.

84. "Markers and Consequences of Status Epilepticus in the Immature Brain," Neurology Grand Rounds, *David Geffen School of Medicine at UCLA*, September 10, 2003, Los Angeles, California.
85. "Pharmacologic Basis of Action of Antiepileptic Drugs," Neurology Grand Rounds at *Harbor-UCLA Medical Center*, November 21, 2003, Torrance, California.
86. "Diagnosis and Treatment of Epilepsy: The Science and The Art," Pediatric Grand Rounds at *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, February 13, 2004, Los Angeles, California.
87. "Metabolic Disease – A Neurologist's Perspective," Lecture given as part of Neurology Resident Lecture Series, Department of Neurology, *David Geffen School of Medicine at UCLA*, February 18, 2004, Los Angeles, California.
88. "Pediatric Epilepsy: An Update for the Primary Care Physician," Grand Rounds of the Department of Pediatrics, *Huntington Memorial Hospital*, March 24, 2004, Pasadena, California.
89. "Floppy Infant, Stumbling Child," Lecture to pediatric residents at *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, May 26, 2004, Los Angeles, California.
90. "Headaches and Migraines in Children," Grand Rounds, Department of Pediatrics at the *West Los Angeles Kaiser Permanente Medical Group*, May 29, 2004, Los Angeles, California.
91. "Neonatal Seizures: A Bench to Bedside Dilemma," at *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, July 29, 2004, Los Angeles, California.
92. "Medically Refractory Epilepsy of Childhood – the Role of Ketogenic Diet," Pediatric Grand Rounds at the *Children's Hospital of Orange County*, August 18, 2004, Orange, California.
93. "Pediatric Epilepsy," and "Treatment of Childhood Headaches and Migraines," Lectures to Pediatric Medical Staff at *Southern California Kaiser Permanente Medical Center*, August 18, 2004, Los Angeles, California.
94. "A Child with Seizures: A Problem for the Neurologist," at the Pediatric Neurosurgery Symposium: Bridging the Gap Between Clinicians and Surgeons," *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, September 18, 2004, Los Angeles, California.
95. "Pathophysiology of Seizures," Lecture given to the Division of Critical Care at *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, September 22, 2004, Los Angeles, California.
96. "Overview of Pediatric Epilepsy," Presentation to pediatric house-staff at *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, September 28, 2004, Los Angeles, California.
97. "Neonatal Seizures: Lessons from the Laboratory," at the Second California Pediatric Neurology Colloquium at *Children's Hospital and Health Center*, October 30, 2004, San Diego, California.
98. "Pediatric Epilepsy," Grand Rounds, Department of Pediatrics at the *West Los Angeles Kaiser Permanente Medical Group*, Jan 19, 2005, Los Angeles, California.
99. "Pediatric Epilepsy Syndromes," at Pediatric Grand Rounds at *Olive View Medical Center*, Jan 19, 2005, Sylmar, California.
100. "Novel Molecular Targets for Antiepileptic Drugs: Implications for Polypharmacy," Neurology Grand Rounds of the *UCSD School of Medicine at the Veteran's Administration Hospital*, February 25, 2005, La Jolla, California.

101. "Epilepsy Syndromes of Infancy, Childhood and Adolescence," at the *Kaiser Permanente Medical Center*, March 4, 2005, Panorama City, California.
102. "Traditional and Novel Molecular Targets of Antiepileptic Drug Action," presentation to neurology house-staff and medical students at David Geffen School of Medicine at UCLA, June 15, 2005, Los Angeles, California.
103. "Pediatric Epilepsy: Diagnosis and Treatment," to the attending faculty physicians of the General Pediatric Services at the *Children's Hospital of Los Angeles*, July 25, 2005, Los Angeles, California.
104. "Optimization of Therapy in Pediatric Epilepsy," to pediatrics house staff and faculty at *Miller Children's Hospital at Long Beach Memorial Medical Center*, August 5, 2005, Long Beach, California.
105. "Approach to the Floppy Infant and the Stumbling Child," Pediatric Grand Rounds at *Mattel Children's Hospital and David Geffen School of Medicine at UCLA*, September 16, 2005, Los Angeles, California.
106. "Mechanisms of Epileptogenesis and AED Mechanisms," Neurology Conference at *Harbor UCLA Medical Center*, September 21, 2005, Torrance, California.
107. "The Floppy Infant," "Headaches in the Pediatric Patient," "The Ataxic Child," and "Neurotherapeutics of Epilepsy and Migraine," at the *Current Advances in Pediatrics* course sponsored by the *California Chapter 4 of the American Academy of Pediatrics*, October 21-23, Irvine, California.
108. "Emerging Concepts in the Management of Epilepsy," dinner presentation to neurologists from the *Southern California Kaiser Permanente Medical Group (Baldwin Park, Pasadena and Sunset)*, November 28, 2005, Pasadena, California.
109. "Mechanisms of Epileptogenesis as a Basis for the Design of Rational Therapies," Neuroscience Grand Rounds at the *Cedars-Sinai Medical Center*, February 8, 2005, Los Angeles, California.
110. "Neonatal Seizures: Pathophysiology and Management," Neonatology Lecture Series, *Mattel Children's Hospital at UCLA*, February 28, 2006, Los Angeles, California.
111. "Seizure Mechanisms and Antiepileptic Drug Mechanisms," Neuroscience Grand Rounds at *Loma Linda University School of Medicine*, August 28, 2006, Loma Linda, California.
112. "Neonatal Seizures: Translational Gap in Management," Pediatric Grand Rounds at *Mattel Children's Hospital at UCLA*, December 15, 2006, Los Angeles, California.
113. "Evidence-based Treatment Plan for Pediatric Epilepsy," *San Diego Children's Hospital*, March 13, 2007, San Diego, California.
114. "Treatment of Epilepsy," in a case-based Regional CME Program sponsored by the *American Epilepsy Society*, March 24, 2007, Los Angeles, California.
115. "What is New in Pediatric Epilepsy," Grand Rounds at the *Children's Hospital of Los Angeles*, August 17, 2007, Los Angeles, California.
116. Faculty, *Pediatric Update, The 64<sup>th</sup> Brennemann Lectures of the Los Angeles Pediatric Society*, September 7-9, 2007, Anaheim, California.
117. "NICU Neurology Consult: Neonatal Seizures," at the Academic Day for Neonatologists of Southern California, November 8, 2007.



118. "Headaches and Migraines," "Cerebral Palsy," "Evaluation of the Floppy Infant," and "Pediatric Epilepsy Workshop" at the Clinical Pediatrics program of the *American Academy of Pediatrics, California, Chapter 2*, February 15-17, 2008, Palm Springs, California.
119. "Short and Long Term Sequelae of Hypoxic-Ischemic Encephalopathy," at a *Symposium on Hypoxic-ischemic Encephalopathy*, Mattel Children's Hospital at Ronald Reagan UCLA Medical Center, September 18, 2008, Los Angeles, 2008.

Jan 12, 2009