

## CURRICULUM VITAE

**NAME** Gregory Lawrence Holmes, M. D.

**ADDRESS** Section of Neurology  
Dartmouth-Hitchcock Medical Center  
One Medical Center Drive  
Lebanon, New Hampshire 03756

[REDACTED] [REDACTED]  
[REDACTED] [REDACTED]  
[REDACTED] [REDACTED]  
[REDACTED] [REDACTED]  
[REDACTED] [REDACTED]

### **EDUCATION**

1970 B.S Washington and Lee University, Lexington, Virginia  
1974 M.D University of Virginia School of Medicine, Charlottesville, Virginia

### **POST-DOCTORAL TRAINING:**

1974-1975 Intern in Pediatrics, Yale University School of Medicine, New Haven, Connecticut  
1975-1976 Resident in Pediatrics, Yale University School of Medicine, New Haven, Connecticut  
1976-1979 Resident in Neurology (Pediatric Neurology), University of Virginia School of Medicine  
1996-1997 Visiting Research Scientist, Laboratoire de Neurobiologie et Physiologie du Développement, Institut National de la Santé de la Recherche Médicale, Unit 29, Paris, France

### **LICENSURE AND CERTIFICATION:**

1979 Connecticut License Registration  
1979 American Board of Pediatrics  
1980 American Board of Psychiatry and Neurology with Special Competence in Child Neurology  
1982 American Board of Clinical Neurophysiology  
1986 Georgia License Registration  
1988 Massachusetts License Registration  
2003 New Hampshire License Registration

**ACADEMIC APPOINTMENTS:**

1979- Assistant Professor of Neurology and Pediatrics, University of  
1986 Connecticut Health Center  
1986 Associate Professor of Neurology and Pediatrics, University of  
Connecticut Health Center  
1986- Associate Professor of Neurology and Pediatrics, Medical College of  
1988 Georgia  
1988- Associate Professor of Neurology, Harvard Medical School  
1996  
1996- Professor of Neurology, Harvard Medical School  
2002  
2002 Professor of Medicine (Neurology) and Pediatrics, Dartmouth Medical  
School, Hanover, New Hampshire

**HOSPITAL APPOINTMENTS:**

1979- Staff Neurologist, Newington Children's Hospital, Newington,  
1986 Connecticut  
1979- Staff Neurologist, John Dempsey Hospital, Farmington, Connecticut  
1986  
1979- Director, Neurophysiology Laboratory, Newington Children's Hospital  
1986  
1979- Courtesy Attending Physician, Waterbury Hospital, Waterbury,  
1986 Connecticut  
1979- Courtesy Attending Physician, St. Francis Hospital, Hartford,  
1986 Connecticut  
1986- Staff Neurologist, Talmadge Hospital, Augusta, Georgia  
1988  
1986- Director of Pediatric Epilepsy Program, Talmadge Hospital, Augusta,  
1988 Georgia  
1988- Director of the Clinical Neurophysiology Laboratory and Epilepsy  
1998 Program, Children's Hospital, Boston, Massachusetts  
1996- Director of the Division of Clinical Neurophysiology and Epilepsy  
1998 Program, Children's Hospital, Boston, Massachusetts  
1998- Director of the Center for Research in Pediatric Epilepsy, Children's  
2002 Hospital, Boston, Massachusetts  
2002 Section Chief, Section of Neurology, Dartmouth-Hitchcock Medical  
Center, Lebanon, New Hampshire

**OTHER PROFESSIONAL POSITIONS:**

1979- Lecturer, School of Pharmacy, University of Connecticut, Storrs,  
1986 Connecticut

**AWARDS AND HONORS:**

1980-1984 Primary Investigator, Master Agreement, Phase I/II clinical evaluation of antiepileptic drugs, Lennox-Gastaut syndrome and infantile spasms, National Institute of Neurological and Communicative Disorders and Stroke, National Institute of Health

1980-1982 Primary Investigator, Phase III multi-clinic open study of the efficacy of [REDACTED] in the treatment of tonic-clonic seizures in naive patients, [REDACTED]

1981-1982 Primary Investigator, Kindling in Neonatal Asphyxia, United Cerebral Research and Educational Foundation, \$ [REDACTED], Grant R-327-82

1981-1986 Teacher - Investigator Award, National Institute of Health National Institute of Neurological and Communicative Disorders and Stroke, NSI-EA-1K07-N5-538

1982-1983 Co-Investigator, Spectral Coherence in Cardiac Activity in Relation to State Maturation in At-Risk Infants, Connecticut Research Foundation, \$ [REDACTED]

1983-1985 Primary Investigator, [REDACTED] Collaborative Study: The comparative efficacy and safety of [REDACTED] and [REDACTED] in the treatment of infantile spasms, [REDACTED]

1984-1985 Primary Investigator, Effect of hormones of kindling in the immature brain, Hood Foundation, \$ [REDACTED]

1985-1986 Primary Investigator, Effect of Neocortical Transplants on Seizure Susceptibility in the Developing Brain, Newington Children's Hospital Research Fund, \$ [REDACTED]

1987-1988 Primary Investigator, Effects of embryonic locus ceruleus and neocortical transplants on seizure susceptibility in the genetically epilepsy prone rat (GEPR), Epilepsy Foundation of America, \$ [REDACTED]

1987-1988 Primary Investigator, Effects of embryonic hippocampal transplants on kainate induced seizures, Veterans Administration, \$38,000

1987-1989 Primary Investigator, Effect of neural transplants on seizure susceptibility, Veterans Administration, \$109,000

1988-1993 Co-Investigator, Infant Heart Surgery: CNS Sequelae of Circulatory Arrest, Primary Investigator: Jane Newburger, National Institutes of Health, \$3,503,236

1989 Preceptor, Epilepsy Foundation of America Student Fellowship to [REDACTED], \$ [REDACTED]

1990-1992 Preceptor, American Epilepsy Society/Epilepsy Foundation of America Research Training Fellowship to [REDACTED], MD, PhD

1991-1994 Primary Investigator, NIH, RO1NS27984, "Long Term Effect of Seizures on the Developing Brain, \$600,000.

1992-1994 Principal Investigator, "The Safety of [REDACTED]", [REDACTED], \$ [REDACTED]

1992-1993 Principal Investigator, "Safety and Efficacy of [REDACTED] Versus Placebo [REDACTED]", [REDACTED], \$ [REDACTED]

1992-1994 Principal Investigator, "An Open-Label [REDACTED] Study of [REDACTED] in The Treatment of Patients with Partial Seizures," [REDACTED]

1994-1998 Principal Investigator, NIH, RO1NS27984, "Long Term Effect of Seizures on the Developing Brain, \$450,000

1995-1997 Principal Investigator, "Effect of Choline Supplementation on Seizure-Induced Brain Damage", March of Dimes Birth Defects Foundation, #12-FY95-0466, \$ [REDACTED]

1995-1997 Principal Investigator, "Efficacy and Safety Evaluation of Oral [REDACTED] Therapy Compared to Placebo in Children with Uncontrolled Complex Partial Seizures: A Dose Response Study", [REDACTED]

1995-1998 Principal Investigator, "An Open-Label [REDACTED] Study of [REDACTED] in Children with [REDACTED] Seizures", [REDACTED], \$ [REDACTED]

1997-2001 Co-Investigator. "NIRS for Brain Monitoring in Cardiac Surgery." PI: [REDACTED] MD, \$ [REDACTED].

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1999-2003 Principal Investigator, NIH, RO1NS27984, "Long Term Effect of Seizures on the Developing Brain, \$1,215,000 (direct costs).  
1999-2000 Principal Investigator, NIH R21NS38030, "Treatment of Medically Intractable Epilepsy in Children," \$136,857 (direct costs)  
2000-2001 Principal Investigator, "Prevention of seizure-induced damage in the developing brain," RW Johnson Research Institute, \$ [REDACTED] (direct costs)  
2002-2006 Principal Investigator, "Effect of Neonatal Seizures on Hippocampal Neuronal Activity, (NS41595), NIH, NINDS (\$1,000,000 direct costs)  
2004-2007 Principle Investigator, "Predictors of Seizure-Induced Memory Impairment, " (NS044296), NIH, NINDS (\$1,000,000 direct costs)  
2004-2005 Principal Investigator, "Prevention of seizure-induced damage in the developing brain," RW Johnson Research Institute, \$ [REDACTED] (direct costs)  
2004-2005 Principal Investigator, "Post-ictal impairment following seizures," [REDACTED] \$ [REDACTED] direct costs  
2004-2005 Principal Investigator, "[REDACTED] in the prevention of seizure-induced damage," \$ [REDACTED] direct costs  
2005 Co-Investigator, "Partnership for Pediatric Epilepsy Research," Epilepsy Foundation, \$ [REDACTED]  
2008-2010 EEG Abnormalities and Cognitive Impairment (\$ [REDACTED] direct costs)  
Pending GABA signaling in the neocortex in normal development and epilepsy

**ACADEMIC AWARDS:**

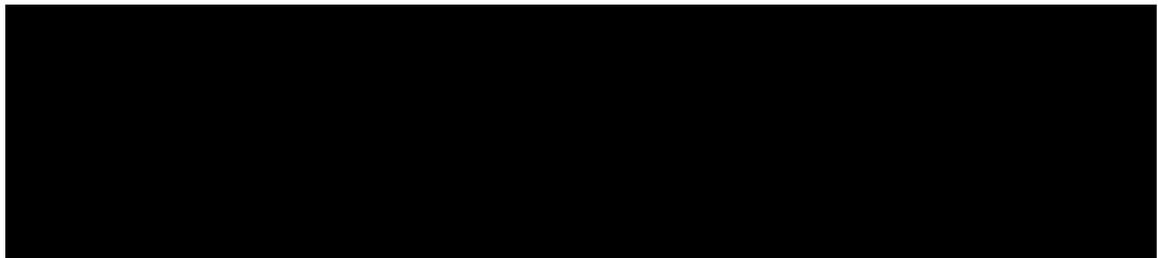
1981 Sidney Farber Research Award, United Cerebral Palsy Association, Inc  
1986 The John Horsley Memorial Prize, University of Virginia, School of Medicine  
1991 Segawa Award, Tokyo, Japan, \$ [REDACTED]  
1989 Michael Prize awarded by Stiftung Michael, Bonn, Germany. Basic Scientist Award for outstanding work in the field of epilepsy research by a young investigator, \$ [REDACTED]  
1989 Milken Family Medical Foundation - American Epilepsy Society Research Award. Basic Scientist Award for outstanding work in the field of epilepsy research, \$ [REDACTED]  
1990 The Pierre Gloor Award for outstanding achievements in research. American Clinical Neurophysiology Society.  
2007 Ambassador for Epilepsy, International League Against Epilepsy

**LAY AWARDS:**

2003 "Inspiration for a Cure" Award Recipient. Western Massachusetts Epilepsy Awareness Committee, \$ [REDACTED]

**FELLOW AWARDS:**

1988  
1991-1993  
  
1993-1994  
1994-1995  
  
1999-2000



Fellowship

2000-2001  
2005-2006



**STUDENT AWARDS:**

2004  
2005  
2007



**MAJOR HOSPITAL/MEDICAL SCHOOL COMMITTEE ASSIGNMENTS:**

1981-1983 Newington Children's Hospital, Intensive Care Unit Committee  
1982-1983 Newington Children's Hospital, Medical Advisory Board  
1979-1983 Newington Children's Hospital, Human Investigation Committee  
1982-1983 Newington Children's Hospital, Chairman, Human Investigation Committee  
1983-1986 Newington Children's Hospital, Chairman, Institutional Review Board  
1984-1986 University of Connecticut Health Center, School of Medicine Council, At-Large Representative  
1984-1986 University of Connecticut Health Center, Ethics Committee  
1986-1988 Veterans Administration Medical Center, Animal Care Committee  
1987-1988 Medical College of Georgia, Neurology Long Range Planning Committee  
1987-1988 Medical College of Georgia, Phase III Curriculum Committee  
1987-1988 Medical College of Georgia, Biomedical Science Research Committee  
1987-1988 Medical College of Georgia, Nursing Recruitment and Retention Committee  
1987-1988 Director of Neurology 500 clerkship for junior and senior students  
1993-2001 Faculty Research Committee, Children's Hospital  
1993-2001 Clinical Research Committee, Children's Hospital

**HARVARD MEDICAL SCHOOL COMMITTEES**

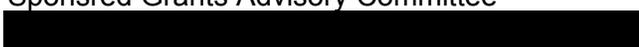
1999  
2002  
2002



Committee member, Committee for Professorial candidate

**DARTMOUTH MEDICAL SCHOOL COMMITTEES**

2002- Advisory Committee, Neuroscience Center at Dartmouth  
2004-2005 Search Committee for Chairman of Obstetrics-Gynecology  
2004-2005 Search Committee for Chairman of Physiology  
2006 Sponsred Grants Advisory Committee  
2008-2011



**EDITORIAL BOARDS:**

1987-1998 Editorial Board, Journal of Epilepsy  
1988-1998 Book Review Editor, Journal of Epilepsy

1989-1998 Controversies in Epilepsy Editor, Journal of Epilepsy  
1989- Editorial Board, Electroencephalography and Clinical Neurophysiology  
1989-1998 Associate Editor, Journal of Epilepsy  
1990-1997 Associate Editor, Journal of Clinical Neurophysiology  
1990 Editorial Board, Brain & Development  
1991-1998 Editorial Board, Journal of Child Neurology  
1992-1998 Editorial Board, Pediatric Neurology  
1992-1996 Editorial Board, Epilepsy Advances  
1993-1998 Editorial Board, Annals of Neurology  
1999-2005 Editorial Board, Clinical Neuropharmacology  
2000-2006 Editorial Board, Epilepsy Research  
2001-2004 Editorial Board, Seizure Disorders & Epilepsy  
2002-2005 Editorial Board, Living with Epilepsy  
2003-2006 Editorial Board, Paediatric Drugs

**INVITED REVIEWER:**

American Journal of Mental Deficiency  
Annals of Neurology  
Behavioral Brain Research  
Brain  
Brain and Development  
Brain Research  
Cell  
Clinical Pediatrics  
Developmental Brain Research  
Diabetes  
Electroencephalography and Clinical Neurophysiology  
Epilepsia  
Epilepsy Research  
European Journal of Neuroscience  
European Journal of Pediatrics  
Experimental Neurology  
Hormones and Behavior  
IEEE Transactions on Medical Imaging  
Journal of the American Medical Association (JAMA)  
Journal of Cerebral Blood Flow and Metabolism  
Journal of Child Neurology  
Journal of Clinical Neurophysiology  
Journal of Epilepsy  
Journal of Neurochemistry  
Journal of Neurophysiology  
Journal of Neuroscience  
Journal of Neuroscience Methods  
Life Sciences  
Methods and Findings  
Nature Medicine  
Nature Neuroscience  
Neurobiology of Disease  
Neurology

Neuropharmacology  
Neuroscience Research Communications  
Nutritional Neuroscience  
New England Journal of Medicine  
Pediatric Neurology  
Pediatrics  
Pediatric Research  
Pharmacology Biochemistry and Behavior  
Progress in Neuro-Psychopharmacology and Biological Psychiatry  
Transactions on Biomedical Engineering  
Trends in Neuroscience

**CONSULTANT**

[REDACTED]

Veterans Administration

[REDACTED]

March of Dimes

Medical Research Council, Canada

Medical Research Council, Ireland

Medical Research Council, United Kingdom

[REDACTED]

Grant Agency of the Czech Republic

National Institutes of Health

[REDACTED]

National Epilepsy Fund Scientific Council, The Netherlands

**SAFETY MONITORING BOARD**

2005-2008

[REDACTED]  
2007- Chairperson, [REDACTED]

**FELLOWS AND STUDENTS**

*Basic Research:*

*Holmes - CV*

1986-1988

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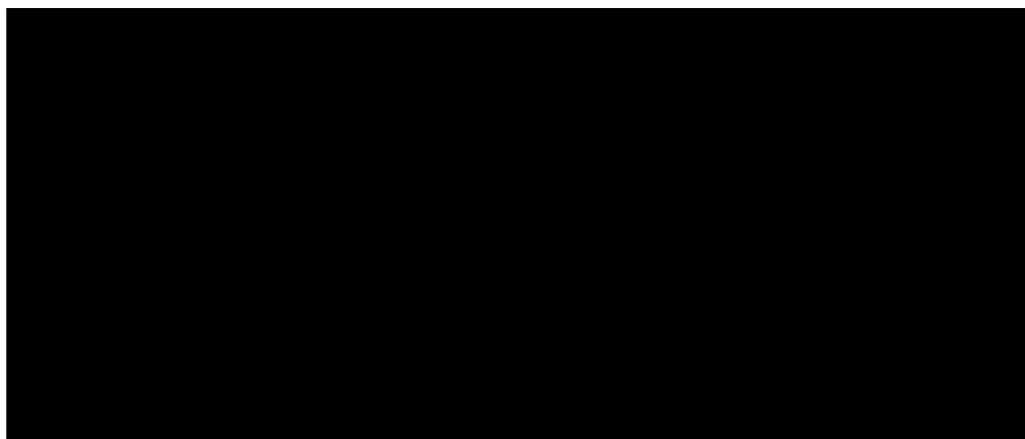
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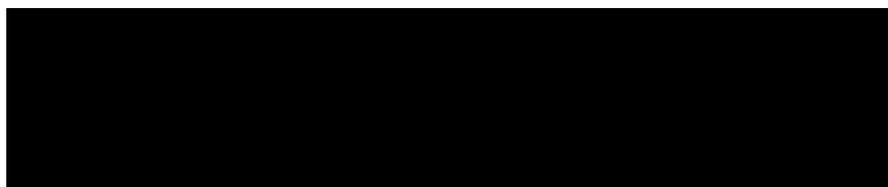
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**THESIS COMMITTEE**

1999-2001  
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**PRECEPTOR**

1991-1992



**MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES**

1976- Member, Child Neurology Society  
1979 Member, American Academy of Neurology  
1979 Member, American Epilepsy Society  
1979 Member, American EEG Society  
1979 Member, Eastern Association of Electroencephalographers  
1979-1997 Member, Association for Research in Nervous and Mental Diseases  
1979-1998 Member, American Academy of Pediatrics  
1982 Chairman, Section on Epilepsy, Fifth International Symposium on Child Neurology, Bratislava, Czechoslovakia  
1983 Associate Examiner, American Board of Clinical Neurophysiology  
1985-1998 Member, Section of Neurology, American Academy of Pediatrics  
1985 Chairman, Joint Symposium of American EEG Society and American Society of EEG Technologists, American EEG Society Annual Meeting, Orlando, Florida  
1985 Site Visitor, Joint Review Committee on Education in Electroencephalographic Technology  
1985 Co-Chairman, Basic Science Session, American Epilepsy Society, New York  
1986 Co-Chairman, Epilepsy Session, Child Neurology Society, Boston, Massachusetts  
1986 Co-Chairman, Clinical Session, American Epilepsy Society, Seattle, Washington  
1986- Member, Society for Neuroscience

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1986-1989 American EEG Society, Long-Range Planning Committee  
1987 Program Committee, American Epilepsy Society Annual Meeting, Baltimore, Maryland  
1987 Member, Southern EEG Society  
1987 Professional Advisory Board, Epilepsy Foundation of America, Georgia Chapter  
1987-1989 Section of Pediatric Neurology Committee Member, American Academy of Pediatrics  
1988-1991 American EEG Society, Membership Committee  
1988-1990 Child Neurology Society, Awards Committee  
1988-1993 American Epilepsy Society, Childhood Epilepsy Committee  
1988 American Epilepsy Society, Childhood Epilepsy Committee, Subcommittee on 1989 Symposia  
1988-1991 American Epilepsy Society, Childhood Epilepsy Committee, Subcommittee on Active Participation of Pediatric Epileptologists  
1988-1991 American Epilepsy Society, Childhood Epilepsy Committee Chairman, Subcommittee on Long Range Programs  
1989-1997 Professional Advisory Board, Epilepsy Foundation of America, National Office  
1989-1998 Epilepsy Foundation of America, Client and Public Information Committee  
1989-1998 Epilepsy Foundation of America, Continuing and Professional Education Committee  
1989 Epilepsy Foundation of America, Pediatric Management Film Project  
1989 Co-Chairman, Pediatric Video Session, American Epilepsy Society, Boston, Massachusetts  
1989-1992 Chairman, Long-Range Planning Committee, American EEG Society  
1990-1992 Chairman, Childhood Epilepsy Committee, American Epilepsy Society  
1990-1992 American EEG Society/American Association of Electrodiagnostic Medicine Joint Meeting Planning Committee  
1990 Chairman, Problems in Pediatric Clinical Neurophysiology, American EEG Society  
1990-1991 Scientific Selection Committee, Child Neurology Society  
1990 Co-Chairman, Epilepsy and Neurotransmitters, Child Neurology Society, Atlanta, Georgia  
1990 Committee on the Classification of Neonatal Seizures, International League Against Epilepsy  
1990-1993 Subcommittee for the Decade of the Brain, Child Neurology Society  
1991 Executive Council, Eastern Association of Electroencephalographers  
1991-1993 Professional Advisory Board, Epilepsy Foundation of America, Massachusetts chapter  
1991-1994 Council, American EEG Society  
1992-1993 Ad Hoc Journal Committee, American Epilepsy Society  
1992-1993 Scientific Program Committee, American Epilepsy Society  
1992-1995 Awards Committee, American Epilepsy Society  
1992-1993 Long Range Planning Committee, Child Neurology Society  
1992-1993 Committee on the Decade of the Brain, Child Neurology Society  
1992-1996 Epilepsy Foundation of America, Children's Subcommittee  
1992-1994 Chairman, Fellowship Committee, American EEG Society  
1992-1993 Program Committee, Child Neurology Society  
1993-1995 Councilor from the East, Child Neurology Society  
1993-1995 ILAE Commission on Paediatrics, International League Against Epilepsy  
1994-1997 Journal Oversight Committee, American EEG Society  
1994-1996 Ad hoc member, Program Committee, American EEG Society  
1994-1995 Scientific Advisory Committee. 21st International Epilepsy Congress, Sydney, Australia  
1994-1998 Continuing Medical Education Committee, American Epilepsy Society  
1994-1998 Continuing Medical Education Committee, Free-Standing Program Committee, American Epilepsy Society  
1995-1998 Selection Committee, Segawa Prize, Japanese Child Neurology Society

1995-1998 Commission on Pediatrics, International League Against Epilepsy  
1996-1998 Consejo Directivo, Academia Iberoamericana De Neurologia Pediatrica  
1996-1998 President, Eastern Association of Electroencephalographers  
1996-1999 Board of Directors, American Epilepsy Society  
2000-2002 Nominating Committee, American Epilepsy Society  
2002 Research Initiative Award Committee, American Epilepsy Society  
2002 Selection Committee, Research Initiative Award, American Epilepsy Society  
2003 Advisory Committee, CURE  
2003 President Elect, Second Vice-President, American Epilepsy Society  
2003 Advisory Committee, STAR, The Epilepsy Tissue Exchange Program, National Disease Research Interchange  
2004 Awards Committee, American Epilepsy Society  
2005 Scientific Program Committee. Fourth INMED/TINS Conference. Nature and nurture in brain development and neurological disorders. Las Ciotat, France.  
2005 President Elect, First Vice President, American Epilepsy Society  
2006 President, American Epilepsy Society  
2007 Patst President, American Epilepsy Society  
2007-2010 Nominating Committee, American Epilepsy Society  
2007 Special Interest Group Organizer, American Epilepsy Society  
2007 Continuity of Care Committee, American Epilepsy Society

#### **FOOD AND DRUG ADMINISTRATION**

2007-2009 FDA Advisory Committee

#### **NATIONAL INSTITUTES OF HEALTH COMMITTEES:**

1990 Contract review committee, Clinical Research Centers for Neonatal Seizures  
1991 Special Reviewer, Neurology B study section  
1993 Special Reviewer, Neurology B study section  
1993 Ad Hoc Reviewer, Neurological Sciences 2 study section  
1993-1996 NINDS Performance and Safety Monitoring Committee for clinical trial "Outcome of Surgery for Infantile Spasms"  
1994 Ad Hoc Reviewer, Neurology A study section  
1994-1998 Study section member, Neurological Disorders Program Project Review A Committee  
1996 Ad Hoc Reviewer, Neurological Science 2 study section  
1997-1998 Epilepsy Therapeutics Research Program Advisory Group, NINDS  
1998 Ad Hoc Reviewer, Perception and Cognition Research Review Committee  
National Institute of Mental Health  
2001 Participant, Workshop on Models of Epilepsy  
2002 Study Section Member, BDCN-1  
2002 Planning Committee, Workshop on Models of Epilepsy II  
2002 Section leader, Workshop on Models of Epilepsy II  
2002- Ad Hoc Reviewer, BDCN-2  
2004-2007 Permanent Member, CND  
2006 Ad Hoc Reviewer, ZNS1  
2005 Ad Hoc Reviewer, Neurological Sciences Academic Development Award (NSADA)  
2006 Workshop participant, Models of Geriatric Epilepsy  
2007 Special Review Panel, Neurological Sciences Academic Development Award  
2007 Reviewer for special review panel (SRB-B -02)  
2007- Chairperson, Oversight Committee for Neurological Sciences Academic Development

2008 Award to Children's National Medical Center, Washington, DC  
Program Committee, Curing Epilepsy, 2007  
2008 Ad Hoc Reviewer, CND  
2008 Chairperson, Member Conflict Study Section, ZRG1 BDCN-J

**OTHER PROFESSIONAL ACTIVITIES:**

1989 Testified before the United States House of Representatives Committee on Appropriations regarding NINCDS funding, Washington, D.C.  
1989 Medical Advisory Committee, [REDACTED]  
1990 External review committee, NIH Program Project, UCLA pediatric epilepsy  
1990 Reviewer, Veterans Administration Merit Review Grants  
1990 Reviewer, Canadian Government Medical Grants Program  
1998 Reviewer, Grant Agency of the Czech Republic  
1998 Reviewer, United Kingdom, Medical Research Council  
2000 Site reviewer, Epilepsy Research Program, Hospital for Sick Children, University of Toronto, Bloorview Childrens Hospital Foundation  
2000 Organizer, International symposium on "Overtreatment in Epilepsy," Harvard Medical School, Boston, Massachusetts  
2001 Camp Doctor, Camp Wee-Kan-Tu, Duxbury, Massachusetts  
2002 Reviewer, Fonds zur Foderund der wissenschaftlichen Forschung (Austria) Grants Program  
2003 Reviewer, Neurological Foundation of New Zealand, Grants Program  
2003 Reviewer, Wellcome Trust, Grants Program, United Kingdom  
2004 Reviewer, Medical Research Council, Scotland  
2007 Reviewer, Israel Medical Reserch Foundation, Israel  
2007 Ad hoc reviewer, Citizens United for Research Epilepsy, Chicago, Illinois  
2008 Organizer for New Horizons International Meeting on "Non-Pharmacological Treatment of Epilepsy," Dublin, Ireland  
2008 Prince of Wales Chari of Epilepsy Search Committee, London, england

**NAMED LECTURESHIPS**

1997 John Barlow Memorial Lecture, "Consequences of Epilepsy in the Developing Brain," Massachusetts General Hospital, Boston, Massachusetts  
1999 Dr. Ruth W. Baldwin Lecturer, University of Maryland Medical Center, "Consequences of Epilepsy in the Developing Brain," Baltimore, Maryland  
1999 Fritz Dreifuss Lecture, "Consequences of Seizures on the Developing Brain," University of Virginia School of Medicine  
1999 Preston Robb Lectureship, "Changing Concepts in the Treatment of Childhood Epilepsy" Montreal Children's Hospital, Montreal, Quebec  
2001 Ed Senz Memorial Lecture, " Do Seizures Cause Brain Damage?" Oakland Children's Hospital, Oakland, California  
2004 Merrill Lynch Lecture in Pediatric Neuroscience, "Epilepsy: How Do We Get There From Here," Hospital for Sick Children, Toronto, Ontario, Canada  
2004 Hans Berger Lecture, "Seizures, Interictal Epileptiform Discharges and Cognitive Function: Lessons from Basic Science"  
2005 American Academy of Clinical Neruophysiology, Schwab Lecture: "Role of EEG

- Abnormalities in Epileptic Encephalopathy.”
- 2005 The 20th Philip R. Dodge Lecture, "Treat the Patient or the EEG?" Washington University in St. Louis, School of Medicine.
- 2005 The 12<sup>th</sup> Annual Abby Stoddard Lectureship, "Treating Epilepsy: Is Stopping Seizures Enough?" The Children's Hospital of Denver, Department of Child Neurology, University of Colorado, Denver, Colorado
- 2006 Ronnie MacKeith Lecture,XXXII Annual Conference of the British Paediatric Neurology Association, Bristol, England, United Kingdom
- 2008 William F. Sahlie Memorial Lecturer. University of Alabama at Birmingham. "Treat the EEG or the Patient?", "What's New in Neonatal Seizure?", Birmingham, Alabama

### **INVITED LECTURES:**

- 1982 Yale/University of Connecticut Day, "Absence Seizures," Yale-New Haven Hospital, New Haven, Connecticut
- 1982 Neurology Grand Rounds, "Neonatal Seizures," University of Kentucky Medical Center
- 1983 Pediatric Neurology Grand Rounds, "Classification and Treatment of Childhood Seizure Disorders," Harlem Hospital, New York
- 1983 Pediatric Grand Rounds, "Partial Complex Seizures," Baystate Medical Center, Springfield, Massachusetts
- 1983 Pediatric Grand Rounds, "Management of Seizure Disorders in Children," Day-Kimball Hospital, Putnam, Connecticut
- 1984 Psychiatry Grand Rounds, "Differentiating Seizures from Psychiatric Disease," St. Raphael's Hospital, New Haven, Connecticut
- 1984 Neuroscience Seminar, "Hormones and Epilepsy: a Development Study," Albert Einstein College of Medicine, Bronx, New York
- 1984 Pediatric Grand Rounds, "The Absence Epilepsies," St. Mary's Hospital, Knoxville, Tennessee
- 1984 Neuroscience Seminar, "ACTH: Effect on seizure susceptibility and brain development in the immature animal," Albert Einstein College of Medicine, Bronx, New York
- 1985 Neurology Grand Rounds, "Catamenial Epilepsy," University of Michigan School of Medicine, Ann Arbor, Michigan
- 1985 Pediatric Grand Rounds, "Neonatal Seizures," Medical University of South Carolina, Charleston, South Carolina
- 1986 Association for Children and Adults with Learning Disabilities, "Recent Advances in Research in Epilepsy," New York, New York
- 1986 Neurology Grand Rounds, "Absence Seizures," Robert Wood Johnson School of Medicine, Rutgers, New Jersey
- 1987 Pediatric Grand Rounds, "Absence Seizures," University of Tennessee, Memphis, Tennessee
- 1987 Medicine Grand Rounds, "Recent Advances in Epilepsy," Forsythe Community Hospital, Winston-Salem, North Carolina
- 1987 Neurology Conference, "Neural Transplantation," Bowman-Gray School of Medicine, Winston-Salem, North Carolina
- 1987 Co-chairman, Recent Advances in Paroxysmal Disorders of Children, Hickory Knob State Park, South Carolina
- 1987 Recent Advance in Paroxysmal Disorders of Children, "Classification of Seizures and the Epilepsies" and "Use of Antiepileptic Blood Level," Hickory Knob, South Carolina
- 1988 Neurology Grand Rounds, "Corpus Callosotomy for Intractable Epilepsy." University of

- North Carolina, Chapel Hill, North Carolina
- 1988 Ninth Annual Post Graduate Course, Child Neurology, Miami Children's Hospital, "The Effect of Maternal Seizures and Anticonvulsants on Fetal Brain Development" and "Do Seizures Cause Brain Damage," Miami, Florida
- 1988 Southern EEG Society, "Myoclonic, Tonic, and Atonic Seizures in Children," Nashville, Tennessee
- 1988 Recent Advances in the Management of Epilepsy, "Neonatal and Childhood Seizures," Robert Wood Johnson School of Medicine, New Brunswick, New Jersey
- 1989 Grand rounds, "Corpus callosotomy," Massachusetts General Hospital, Boston, Massachusetts
- 1989 Grand Rounds, "Long-term Effects of Seizures on Brain Development," Institute of Physiology, Czechoslovakian Academy of Science, Prague, Czechoslovakia
- 1989 Maxwell Bogin Lectures, "Preventing and Controlling Seizures: Rationale Use of Anticonvulsants," and "Headaches in Childhood," Bridgeport Hospital, Bridgeport, Connecticut
- 1989 Grand Rounds, "Kindling and Brain Development," Yale University School of Medicine, New Haven, Connecticut
- 1989 Grand Rounds, "Pre-surgical Evaluation of Children with Epilepsy," University of Massachusetts Medical School, Worcester, Massachusetts
- 1989 Pediatric Epilepsy, "New Antiepileptic Drugs," Northwestern School of Medicine, Chicago, Illinois
- 1989 Grand Rounds, "Surgical Management of Childhood Epilepsy," Albany Medical Center, Albany, New York
- 1990 Epilepsy Advances, "Management of Neonatal Seizures," The University of Michigan Medical School, Ann Arbor, Michigan
- 1990 "Recent Advances in Childhood Epilepsy." Neurology Grand Rounds, Robert Wood Johnson Hospital and VA Hospital, Pediatric Grand Rounds, Newark and New Brunswick, New Jersey
- 1990 The Expanding Role of Benzodiazepines in Neurology. "Epilepsy and Febrile Seizures" Cleveland Clinic Foundation, Cleveland, Ohio
- 1990 Medicine Grand Rounds, "Advances in Epilepsy," Lahey Clinic, Burlington, Massachusetts
- 1990 Pediatric Drug Therapy and Nutrition, Update 1990, "Antiepileptic treatment in the newborn patient," and "Drug therapy and management of infantile spasms," McGill University, Montreal, Canada
- 1990 Seminar, The Effects of Seizures and Anticonvulsants on Maturation, "Short and Long-Term Effects of Seizures in Animals," Epilepsy Surgery Conference, Cleveland Clinic Foundation, Cleveland, Ohio
- 1990 Pediatric Grand Rounds, "Epilepsy Surgery in Children," Baystate Medical Center, Springfield, Massachusetts
- 1990 Pediatric Grand Rounds, "Temporal Lobe Epilepsy," University of Connecticut Health Center, Farmington, Connecticut
- 1990 Third International Epilepsy Symposium, "Benign Rolandic Epilepsy: Clinical and Electroencephalographic Features," Bad Kreuznach, Germany
- 1990 Antiepileptic Drug Trials in Children Symposium, "Antiepileptic Drug Trial Methodology in Children," Chantilly, France
- 1990 Inborn Metabolic Errors and Seizures: The Role of Carnitine, "The efficacy of valproate in the management of pediatric epilepsy: Clinical considerations," Atlanta, Georgia
- 1990 Grand Rounds, New England Medical Center, Tufts University School of Medicine, "Epilepsy Surgery in Children," Boston, Massachusetts
- 1990 Childhood Epilepsy and Attention Deficit Disorders: Advances in Drug Therapy,

- "Surgical approaches to pediatric seizure management," and "Management of status epilepticus in the child," The NeuroDevelopmental Center of Northwest Ohio, Sylvania, Ohio
- 1990 Neurology/Neurosurgery Grand Rounds, New England Medical Center, "Epilepsy Surgery in Children," Boston, Massachusetts
- 1990 Dinner Seminar, "Management of Seizures," University of California at San Diego, San Diego, California
- 1990 Pediatric Grand Rounds, "Management of Childhood Epilepsy," San Diego Children's Hospital, San Diego, California
- 1990 Pediatric Grand Rounds, "Do Seizures Cause Brain Damage," Los Angeles Children's Hospital, Los Angeles, California
- 1990 Texas Comprehensive Epilepsy Center Dedication Service, "Epilepsy Surgery in Children," Houston, Texas
- 1990 Current Concepts in Neurology, "Drug Management of Epilepsy and Control of Status Epilepticus," Macomb Hospital Center, Detroit, Michigan
- 1990 Visiting Professor, Medical College of Virginia, "Do Seizures Cause Brain Damage," "Temporal Lobe Epilepsy in Children," and "Infantile Spasms," Richmond, Virginia
- 1991 Neurology Grand Rounds, "Do Seizures Cause Brain Damage?" Albert Einstein College of Medicine, Bronx, New York
- 1991 Neurology Grand Rounds, "Epilepsy Surgery in Children, Brown University School of Medicine, Rhode Island Hospital, Providence, Rhode Island
- 1991 Grand Rounds, "Intractable Epilepsy," Naval Medical Center, Bethesda, Maryland
- 1991 Case Presentations, Walter Reed Medical Center, Washington, DC
- 1991 Neurology Conference, "Treatment of Adults with Epilepsy", VA Medical Center, Washington, DC
- 1991 Steele Memorial Children's Research Center, University of Arizona Health Sciences Center, "Research to Clinical Relevance: Childhood Epilepsy," Lectures: "Do Seizures Cause Brain Damage?" and "Recent Developments in Infantile Spasms" Tuscon, Arizona
- 1991 Special lecture. "The Long-Term Effects of Seizures on the Developing Brain: Clinical and Laboratory Issues." 33rd Annual meeting of the Japanese Society of Child Neurology, Oita, Japan
- 1991 Evening seminar. "Management of Intractable Epilepsy in Childhood." Okayama University Medical School. Okayama, Japan.
- 1991 Neurology conference. "Evaluation of the Child Following the First Seizures." Okayama University Medical School. Okayama, Japan.
- 1991 Neurology conference. "Management of Intractable Epilepsy in Childhood." Tokyo Women's Medical School, Tokyo, Japan.
- 1991 Neurology conference. "Epilepsy Surgery in Children." National Center Hospital for Mental, Nervous and Muscular Disorders. Tokyo, Japan.
- 1991 Evening seminar. "New Developments in Status Epilepticus in Children. Kyoto Prefectural University of Medicine, Kyoto, Japan.
- 1991 Segawa Child Neurology Conferences. "What's New with Infantile Spasms." Tokyo, Japan
- 1991 Twelfth Annual Child Neurology Post-graduate Course. "Neonatal Seizures: To Treat or Not to Treat" and "Temporal Lobe Epilepsy in Children . Miami Children's Hospital, Miami, Florida
- 1991 Fifteenth Annual Neuroscience Update. "The Long-Term Effects of Seizures on the Developing Brain." Veterans Administration, Virginia Beach, Virginia.
- 1991 Grand Rounds. "Seizures in the Young Child: Issues and Controversies". University of Miami, Miami, Florida

- 1991 Family Practice Grand Rounds, "Update on Seizure Disorders in Children," Tacoma General Hospital, Tacoma, Washington
- 1991 Pediatric Grand Rounds, "Update on Seizure Disorders in Children," Tacoma General Hospital, Tacoma, Washington
- 1991 Dinner Seminar, "Special Issues in Childhood Epilepsy," Tacoma, Washington
- 1991 Neurology Grand Rounds, "Neonatal Seizures", Stanford University School of Medicine, Palo Alto, California
- 1991 Dinner Seminar, "Update on Childhood Epilepsy," San Francisco, California
- 1991 Child Neurology in the Decade of the Brain, "Current Concepts of Neonatal Seizures" and "Short and Long Term Consequences of Seizures on the Developing Brain", San Francisco, California
- 1991 Neurology Grand Rounds, "Update on Epilepsy," University of Cincinnati, Cincinnati, Ohio
- 1991 Neurology Grand Rounds, "Do Seizures Cause Brain Damage," University of Alabama, Birmingham, Alabama
- 1991 Neurology Grand Rounds, "Issues in Childhood Epilepsy," University of Nebraska/Creighton Medical School
- 1991 Neurology Grand Rounds, "Epilepsy and Pregnancy," Buffalo General Hospital, Buffalo, Ohio
- 1992 Neurology Grand Rounds, "Do Seizures Cause Brain Damage," Columbia University College of Physicians and Surgeons, New York
- 1992 Neurology Grand Rounds, "Pediatric Epilepsy" Veterans Administration Medical Center, Boston, Massachusetts
- 1992 Grand Rounds, "Effect of Seizures on the Developing Brain," Medical College of Georgia, Augusta, Georgia
- 1992 Dinner seminar, "Advances in Pediatric Epilepsy," Neurology Grand Rounds, "Recent Developments in Pediatric Epilepsy," Medical College of Wisconsin, Milwaukee, Wisconsin
- 1992 Neurology Grand Rounds, "Neonatal Seizures," Strong Memorial Hospital, University of Rochester School of Medicine, Rochester, New York
- 1992 Symposium, Epilepsy in Clinical Practice 1992, Focus on Children and Adolescents, "Epilepsy, Anticonvulsants, and Mental Retardation, Strong Memorial Hospital, University of Rochester School of Medicine, Rochester, New York
- 1992 Grand Rounds, "Update on Childhood Epilepsy," Toledo Hospital, Toledo, Ohio
- 1992 Jornada Iberoamericana de Neurología Pediátrica, "Crisis Epilepticas en los Niños," Sevilla, España
- 1992 IV Curso Iberoamericano de Postgrado de Neurología Pediátrica, "Crisis Epilepticas en los Niños," Avila, España
- 1992 Child Neurology Postgraduate Course, "EEG in Pediatric Epilepsy," "Severe Seizure Disorders in Infancy and Early Childhood", Miami, Florida
- 1992 Seminar, "Update in Pediatric Epilepsy," Massachusetts General Hospital, Boston, Massachusetts
- 1992 Neurology Grand Rounds, "Update on Pediatric Epilepsy," Marshfield Clinic, Marshfield, Wisconsin
- 1992 Neurology Grand Rounds, "Update on Pediatric Epilepsy," University of Wisconsin, Madison, Wisconsin
- 1992 Pediatric Neurology Grand Rounds, "Severe Seizures in Early Childhood," Columbia University College of Physicians and Surgeons, Neurological Institute, New York, New York
- 1992 Neurology Grand Rounds, "Do Seizures Cause Brain Damage?", Hartford Hospital, Hartford, Connecticut

- 1992 Pediatric Grand Rounds, "Severe Seizures in Early Childhood," Hershey Medical Center, Hershey, Pennsylvania
- 1992 Neurology Grand Rounds, "Severe Seizures in Early Childhood," University of Virginia School of Medicine, Charlottesville, Virginia
- 1992 Dinner Seminar, "Do Seizures Cause Brain Damage," University of Virginia School of Medicine, Charlottesville, Virginia
- 1992 "Management of Seizure Disorders in Children and Adults," University of Illinois at Chicago, "Drug Therapy for Pediatric Epilepsy," Chicago, Illinois
- 1992 Symposium, "Practical Seizure Management in the Decade of the Brain," University of Mississippi Medical Center, "Evaluation of the Patient Following the First Seizure and Selection of Anticonvulsants in the Decade of the Brain," Gulfport, Mississippi
- 1992 XV Congresso Brasileiro de Neurologia, Presidente da sessao de mini-conferencias sobre o tema "Epilepsia," "Decada do cerebro, perspectivas," "Estado epileptico no infancia," "Sindromes epilepticas no infancia," "Epilepsia no infancia." Porto Alegre, Brazil
- 1992 Bela Schick Seminar in Advances in Child Neurology, "Indications for Surgical Treatment of Epilepsy," The Brookdale Hospital Medical Center, Brooklyn, New York
- 1993 Neurology Grand Rounds, Long Island Jewish Medical Center, "Advances in Epilepsy," New Hyde Park, New York
- 1993 Medical Grand Rounds, Las Vegas Medical Center, "Advances in the Treatment of Epilepsy," Las Vegas, Nevada
- 1993 Symposium, "Epilepsy and Children," University of Arizona Comprehensive Epilepsy Program, "Epileptic Syndromes in Children", Tuscon, Arizona
- 1993 Symposium, The Neurologically Impaired Individual, Virginia Department of Health, "Early Brain Development", Richmond Virginia
- 1993 Medicine Grand Rounds, "Re-assessment of the Patient with Intractable Epilepsy," Brown University School of Medicine, Providence, Rhode Island
- 1993 Neurology Grand Rounds, "Update on Epilepsy," Boston City Hospital, Boston University School of Medicine, Boston, Massachusetts
- 1993 Pediatric Grand Rounds, "Pediatric Epilepsy", University of Louisville, Louisville, Kentucky
- 1993 Recent Advances in Epilepsy, Sponsored by the Departments of Neurology of New York University, Columbia Presbyterian Medical Center, Montefiore-Albert Einstein Medical Center, New York Hospital-Cornell Medical Center, and the Epilepsy Society of New York City, "When to Start Antiepileptic Drugs", New York
- 1993 20<sup>th</sup> International Epilepsy Congress, "Status Epilepticus in Children", Oslo, Norway
- 1993 Neurology Grand Rounds, "Seizures in Children and Adolescents", Neuroscience Seminar, "Do Seizures Cause Brain Damage," University of Illinois at Peoria, Peoria, Illinois
- 1993 Neurology Grand Rounds, "Catastrophic Epilepsy in Children", University of Oregon Health Science Center, Portland, Oregon
- 1993 Managing Intractable Epilepsy: Current Options & Future Directions. University of Florida, College of Medicine, "Treatment Options in the Pediatric Patient with Intractable Epilepsy", Orlando, Florida
- 1993 National EpiFellows Foundation Annual Meeting, "All Seizures Are Not the Same: The Importance of Identifying Epileptic Syndromes", Miami, Florida
- 1993 Epilepsy Minifellow Symposium VI: Critical Evaluations of New Therapies in Epilepsy, "Developmental Delay in the Epileptic Child: Seizure or Drug Effect?", Miami, Florida
- 1994 Puerto Rico Pediatric Association Annual Meeting, "Neonatal Seizures", "Diagnosis and Management of Seizures in Childhood", and "Evaluation of Children with Headache",

- San Juan, Puerto Rico
- 1994 Ruprecht-Karls-Universität Heidelberg Kinderklinik, "Felbamate - Clinical Experience in Children", Heidelberg, Germany
- 1994 Fifth International Cleveland Clinic - Bethel Epilepsy Symposium, The Child with Seizures, "Epileptic Syndromes, Cleveland, Ohio
- 1994 Pediatric Epilepsy Update: 1994, "Classification of Seizures vs. Epilepsies: Use and Misuse", "New drugs and Unorthodox Therapies", "Mechanisms of Epileptogenesis in the Developing Brain", "Approach to Epilepsy Surgery in Children: Selection and Evaluation of Candidates", Palm Desert, California
- 1994 Fifteenth Annual Child Neurology Postgraduate Course, "Crisis Management in Epilepsy", Miami Children's Hospital, Coral Gables, Florida
- 1994 Neurology Grand Rounds, Hospital for Sick Children, Toronto, Ontario, Canada
- 1994 Neurology Grand Rounds, Stanford University, School of Medicine, Palo Alto, California
- 1994 Pediatric Grand Rounds, Stanford University, School of Medicine, Palo Alto, California
- 1994 Neurology Grand Rounds, University of Missouri School of Medicine, Columbia, Missouri
- 1994 Intensive Care Update, "Status Epilepticus", Portsmouth, New Hampshire
- 1994 Symposium, Controversies in Epilepsy, "Seizures and Brain Damage: Relationship to Age", New Orleans, Louisiana
- 1994 Merritt-Putnam Symposium, "Implications for Epileptogenesis: Insights from Experimental Studies, New Orleans, Louisiana
- 1995 Richard Paine Lecture, "Seizures: Impact on the Developing Nervous System", Children's National Medical Center, Washington, D.C.
- 1995 Sixth International Bethel-Cleveland Clinic Epilepsy Symposium, "Pathophysiology of seizures in the immature brain and brain damage what is the evidence?" Bielefeld, Germany
- 1995 Symposium, Practical clinical Considerations in Epilepsy and Migraine Diagnosis and Management, "The Symptomatic Child: Is it Epilepsy or Migraine", Aspen, Colorado
- 1995 East Coast Division of the Association of Child Neurology Nurses, "Catastrophic Epilepsy in Children", Philadelphia, Pennsylvania
- 1995 Bloorview International Symposium, "Effects of Prolonged or Frequent Seizures on the Developing Brain", Toronto, Ontario, Canada
- 1995 Neonatologie Heute, 80 Jahre Kinderklinik Glanzing, "Neonatal Seizures", Vienna, Austria
- 1995 VII Pediatric Neurology Postgraduate Course, "Neonatal Seizures", Toledo, Spain
- 1995 19th Annual Virginia Update in Neuroscience, "Epilepsy & Brain Development", Virginia Beach, Virginia
- 1995 Plenary Session, 21st International Epilepsy Congress "Epileptogenicity in the Developing Brain: Lessons for the Laboratory and Clinic", Sydney, Australia
- 1995 Chairman, Section on Childhood Epilepsy, 21st International Congress of Pediatrics, "Diagnosis of Epilepsy in Children", Cairo Egypt
- 1995 Keynote speaker, "Intractable Epilepsy in Children", Beppu, Japan
- 1995 Pediatric Grand Rounds, "Recent Development in Pediatric Epilepsy", St. Christopher's Hospital, Philadelphia, Pennsylvania
- 1996 Puerto Rico Pediatric Association Annual Meeting, "The Child in Coma: What to Do and What Not to Do", "Headaches in Children", and "Status Epilepticus", San Juan, Puerto Rico
- 1996 Pediatric Neurology Grand Rounds, "Neonatal Seizures", St. Justine Hospital, Montreal, Quebec, Canada

- 1996 Dinner Seminar, "Detrimental Effects of Seizures on the Developing Brain", Montreal Neurological Institute, Montreal, Quebec, Canada
- 1996 Cleveland Clinic-Bethel Epilepsy Symposium, Pediatric Course, "Unorthodox Therapies Revisited", Cleveland, Ohio
- 1996 Keynote Speaker, Pediatric Neurology Section of the 12th Congress of the Pan-African Association of Neurological Sciences, "The Management of Childhood Epilepsy with Special Emphasis on New Diagnostic and Therapeutic Interventions", "Current Concepts in the Investigation and Management of Neonatal Seizures," and "The Management of Intractable Seizures and the Epileptic Syndromes in Children", Durban, South Africa.
- 1996 Seventeenth Annual Child Neurology Postgraduate Course, "Basic Mechanisms of Epilepsy" and "Infantile Spasms", Miami Children's Hospital, Coral Gables, Florida
- 1996 Inaugural Congress of Asian and Oceanian Epilepsy Organization, "Epileptogenicity in the Developing Brain," Seoul, South Korea
- 1996 Eight Korean Child Neurology Congress, "Effects of Seizures on the Developing Brain," Seoul, South Korea
- 1996 5th Asian and Oceanian Congress of Child Neurology, "Epilepsy Surgery in Children", Istanbul, Turkey
- 1997 32nd Annual Pediatric Postgraduate Course, "The Child Who Stares," "The First Seizure," "The Child With Ataxia," and "Rational Use of Antiepileptic Drugs", Miami, Florida
- 1997 V Congreso Academia Iberoamericana de Neurologia Pediatrica, "Consecuencias de las Crisis refractarias durante el Desarrollo," Valencia, Spain
- 1997 "Consequences of Epilepsy in the Developing Brain", Hôpital Robert Debré Hospital, Paris, France
- 1997 Symposium on Epilepsy and the Developing Brain, "Epilepsies de l'enfant et developpement cerebral, Strasbourg-Obernai, France
- 1997 8th International Bethel-Cleveland Clinic Epilepsy Symposium, "Vigabatrine. Lamotrigine, or Oxcarbazepine?"
- 1997 "Topiramate in Adult Epilepsy", Reykjavik, Iceland
- 1997 "Topiramate in Pediatric Epilepsy", Copenhagen, Denmark
- 1998 "100 Years of Epilepsy Care and Research in Kuopio, Developmental Aspects of the Treatment of Epilepsy." Kuopio, Finland.
- 1998 "Brain Damage: Cause or Effect of Uncontrolled Seizures? The Inaugural Symposium of the University of Maryland Program in Neuroscience. Nerve Cell Death and Neuroprotection in Epilepsy." Baltimore, Maryland.
- 1998 "Second Annual Pediatric Neurology Symposium. Maimonides Medical Center. New Antiepileptic Drugs." New York, New York.
- 1998 8th International Child Neurology Congress, "Generalized tonic-clonic and other types of generalized seizures: The rationale for broad-spectrum agents" Ljubljana, Slovenia.
- 1998 "Update on topiramate. Pediatric issues." Brisbane, Australia
- 1998 "Status Epilepticus." University of Florida symposium. Gainesville, Florida
- 1998 Merritt-Putnam Epilepsy Seminar, "Classification of seizures and epilepsy," Montreal, Quebec, Canada
- 1998 Merritt-Putnam Epilepsy Seminar, "Effects of seizures in the developing brain," New York, New York
- 1998 Metropolitan Neuroscience Symposium. "Diagnosis of Epilepsy." The University Club, New York
- 1998 Neurological Disorders in children and Adolescents: Advances in diagnosis and Treatment. "Little people - Lots of choices: Old and new AEDs"; "Alternative Therapies

- In Childhood Epilepsy." West Palm Beach, Florida.
- 1999 Morrell Symposium on Brain Plasticity and Epilepsy. "Brain Development and Generation of Brain Pathologies." Marine Biological Laboratory, Woods Hole, Massachusetts.
- 1999 25th Congress of the Union of Middle Eastern and Mediterranean Pediatric Societies, "Epilepsy Surgery in Children"; "Neurogenetics of Childhood Epilepsy." Beirut, Lebanon
- 1999 20<sup>th</sup> Annual Child Neurology Postgraduate Course, "Consequence and Treatment of Refractory Status Epilepticus," Miami Children's Hospital
- 1999 Symposium on Childhood Neurology. "Catastrophic Epilepsy in Children"; Advances in Antiepileptic Drug Therapy." Ankara, Turkey
- 1999 Merritt-Putnam Symposium on Pediatric Epilepsy, "Classification of Seizures and Epilepsy," Nashville, Tennessee
- 1999 "Consequences of Seizures on the Developing Brain," Columbia University, College of Physicians & Surgeons. New York, New York.
- 1999 "Synaptic Reorganization Following Neonatal Seizures," 5th Michael Forum. Stiftung Michael, Berlin, Germany
- 1999 "Childhood Spectrum of Benign Focal Epilepsies of Childhood," Benign Focal Epilepsies of Childhood: Genetically Determined Pathophysiology, Houston, Texas
- 1999 "Pediatric Management," Neurology Update. Boston University School of Medicine, New Seabury, Cape Cod, Massachusetts
- 1999 "Childhood Specific Epilepsies Accompanied by Developmental Disabilities: Causes and Effects," Epilepsy and Developmental Disabilities, New York University School of Medicine, New York, New York
- 1999 "Seizures and Brain Damage." Montefiore Medical Center Pediatric Neurology Grand Rounds, Bronx, New York "Epilepsy in Children: Is the Glass Half-Empty or Half-Full," Montreal Children's Hospital, Montreal, Quebec
- 1999 South Carolina Neurological Association Annual Meeting, "Update in Epilepsy," Isle of Palms, South Carolina
- 1999 The Nineteenth Annual Merritt-Putnam Symposium. Preventing Epilepsy: One Pathway Toward a Cure. "Does Early and Aggressive Treatment of Seizures Prevent the Development of Intractable Epilepsy?" Orlando, Florida
- 2000 Causes and Consequences of Epilepsy During Early Development," New Jersey Neuroscience Institute at John F. Kennedy Medical Center, Edison, New Jersey
- 2000 10th Asian & Oceanian Congress of Neurology, "The Clinical Rationale for Broad Spectrum AED in the Management of Epilepsy in Children," "Alternative Therapies in Childhood Epilepsy," Manila, Philippines
- 2000 Workshop of Epilepsy and Learning Disabilities, "Pathogenesis of Learning Disabilities in Epilepsy," Osai Institute for Research on Mental Retardation and Brain Aging, Troina (Sicily), Italy
- 2000 Nature and Nurture in Epilepsy and Psychiatry. Implications for new treatment strategies.
- "Perinatal Insults and Epilepsy," Oslo, Norway
- 2000 University of Washington Pediatric Epilepsy Research Center Symposium on Epilepsy, Infantile spasms, and developmental encephalopathy. "What criteria should be used for developing animal models of infantile spasms." Seattle, Washington
- 2000 4<sup>th</sup> European Congress on Epileptology, From Refractory Epilepsy to Epilepsy Prevention:  
The Transformation of Pharmacotherapy with Newer Agents. "Interrupting Epileptogenesis in the Immature Brain: Hope for the Future." Florence, Italy.

- 2000 Johns Hopkins School of Medicine, Neurology Grand Rounds, "Causes and Effects of Seizures on the Developing Brain," Baltimore, Maryland
- 2000 Merritt-Putnam Symposium on Pediatric Epilepsy, "Classification of Seizures and Epilepsy," St. Louis, Missouri
- 2000 "Extending the Therapeutic Options for Patients with Epilepsy, Disease modification in the developing brain," Lisbon, Portugal
- 2001 Pediatric Grand Rounds, "Recent Developments in Epilepsy," Baystate Medical Center, Springfield, Massachusetts
- 2001 Annual Pediatric Neurology Course, "Do Interictal EEG Abnormalities Cause Brain Damage?" Miami Children's Hospital, Miami, Florida
- 2001 Ed Senz Memorial Lecture, "Do Seizures Cause Brain Damage?", Oakland Children's Hospital, Oakland, California
- 2001 Pediatric Grand Rounds, "Catastrophic Epilepsy in Children," Oakland Children's Hospital, Oakland, California
- 2001 Neurology Grand Rounds, "Effects of Seizures on the Developing Brain," Oregon Health Sciences University, Portland, Oregon
- 2001 Pediatric Grand Rounds, "Effects of Seizures on the Developing Brain," Oregon Health Sciences University, Doernbecher Children's Hospital, Portland, Oregon
- 2001 Tuberous Sclerosis Alliance Second National Family Conference, "Overview of Anticonvulsants," San Diego, California
- 2001 Neurology Update on Cape Cod, "Epilepsy - Pediatric Management," New Seabury, Massachusetts
- 2001 Pediatric Epilepsy Preceptorship, J. Kiffin Penry Epilepsy Education Programs, "Normal and Abnormal CNS Development", "AEDs: Mechanisms of Action", "Discontinuance of AEDs", "Effects of Seizures on the Developing Brain", and "Genetic Syndromes", Winston-Salem, North Carolina
- 2001 Merrit Putnam Pediatric Epilepsy Symposium, "Classification of Seizures and Epilepsy," Victoria, British Columbia, Canada
- 2001 Neurology Grand Rounds, "Effects of Seizures on the Developing Brain," University of Utah, Salt Lake City, Utah
- 2001 Neurology Grand Rounds, "Effects of Seizures on the Developing Brain," Boston University School of Medicine, Boston, Massachusetts
- 2001 New York University School of Medicine, "Effects of Recurrent Seizures on the Developing Brain," New York, New York
- 2001 Statue University of New York, Buffalo, "Effects of Seizures on the Developing Brain," New York, New York
- 2001 New Horizons in the Development of Antiepileptic Drugs, "The Interface of Preclinical Evaluation with Clinical Testing of Antiepileptic Drugs," Philadelphia, Pennsylvania
- 2002 Breakthroughs in Pediatric Epilepsy. 13<sup>h</sup> International Cleveland Clinic –Bethel Epilepsy Symposium, "Consequences and Prevention of Epilepsy Development," Cleveland, Ohio.
- 2002 Overtreatment in Epilepsy Workshop. "Overtreatment in Children with Epilepsy," Boston, Massachusetts
- 2002 Update on Epilepsy: Diagnosis and Management. "When to Start and Stop Treatment," Orlando, Florida
- 2002 Neurology Grand Rounds. Geisinger Clinic, "Do Seizures Cause Brain Damage?" Danville, Pennsylvania
- 2002 Neurology Update 2002, "Epilepsy - Pediatric Management" New Seabury, Massachusetts
- 2002 Pediatric Epilepsy Preceptorship, J. Kiffin Penry Epilepsy Education Programs, "Principles of Pediatric Neuropharmacology", "AEDs: Mechanisms of Action",

- 2002 “Discontinuance of AEDs”, “Effects of Seizures on the Developing Brain”, and “Genetic Syndromes”, Winston-Salem, North Carolina
- 2002 XIV Congress of the Polish Neurology Society, “Neuroprotection in Epilepsy,” Poznan, Poland
- 2002 Symposium on Pediatric Epilepsy, “Classification of Seizures and Epilepsy,” “Disease Modification,” and “Developmental EEG,” Washington, D.C.
- 2002 Advance in Pediatric Epilepsy, Portsmouth, New Hampshire
- 2002 Overview of Advances in Epilepsy, “Effects of Seizures on the Developing Brain,” “Antiepileptic Drugs,” and “Status Epilepticus.” King Gaisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia
- 2002 EpiFellows Annual Program, “Epilepsy Syndromes,” Seattle, Washington
- 2003 Child Neurology Course, Miami Children’s Hospital, “How to Diagnose Epilepsy,” and “Genetics of Epilepsy Syndromes,” Miami, Florida
- 2003 Angelman Syndrome Foundation/International Angelman Syndrome Organization World Conference, “Epilepsy in Angelman Syndrome,” Washington, D.C.
- 2003 Neurology Update 2003, “Epilepsy - Pediatric Management” New Seabury, Massachusetts
- 2003 “Do Seizures Cause Brain Damage?” Medical University of South Carolina, Charleston South Carolina
- 2003 “Pediatric Epilepsy,” Lakes Region General Hospital, Laconia, New Hampshire
- 2003 New Horizons in the Development of Antiepileptic Drugs. The Search for New Targets, “Epidemiology and Mechanisms of Drug Resistance in Epilepsy,” Boston, Massachusetts
- 2003 “Do Seizures Cause Brain Damage?” Neurology Grand Rounds, Henry Ford Hospital, Detroit, Michigan
- 2004 “Mechanisms of Antiepileptic Drugs,” Neurology Grand Rounds, University of Illinois, Chicago, Illinois
- 2004 “Pediatric Epilepsy,” Neurology Update sponsored by the Section of Neurology, Dartmouth Medical School
- 2004 “Seizure-Induced Brain Damage,” Epilepsy Seminar Series, Children’s Hospital of Philadelphia, University of Pennsylvania, Philadelphia
- 2004 “Pediatric Epilepsy: Tips and Pitfalls,” Arnold Palmer Children’s Hospital, Orlando, Florida
- 2004 “Effects of Early Seizures on Later Behavior and Epileptogenicity,” Epilepsy and Autism Conference, UC Davis Health System, Sacramento, California
- 2004 “Common TSC Drugs,” Tuberous Sclerosis Complex East Coast Conference, New York, New York
- 2004 “Treat the Patient, Not the EEG: True or False?” Hans Berger Symposium 2004, Richmond, Virginia
- 2004 “Epilepsy: How do we get there from here? Michael Forum, Potsdam, Germany
- 2004 “The Diagnostic Challenges Between Refractory and Pseudo-Refractory Epilepsy,” Merritt-Putnam Symposium at the 6<sup>th</sup> European Congress on Epileptology, Vienna, Austria.
- 2004 “Pediatric Spells,” Southern Region New Hampshire Nurse Practitioner Neurology Update, Wentworth by the Sea, New Hampshire
- 2004 “Long-term Consequences of Seizures in the Developing Brain,” and “Mechanisms of Epileptic Encephalopathy” Conference on Epileptic Encephalopathy, London, England
- 2004 “Lessons from the Laboratory,” “Back to Your Roots” Dartmouth Medical School.
- 2004 “Developmental Aspects of Epilepsy,” Speaker training program, Washington, D.C.
- 2004 “Epilepsy is a Progressive Disorder: Clinical Evidence” Intractable Epilepsy Workshop/Conference, London, Ontario, Canada

- 2004 "Infantile Spasms and Vigabatrin," and "Epilepsy Panel Discussion: Seizure Control and Alternative Therapies," The New England Regional TSC Conference, Boston, Massachusetts
- 2004 "Diagnosis and Management of Epilepsy," Neurology Review Course sponsored by the Section of Neurology, Dartmouth Medical School, Concord, New Hampshire
- 2004 "Diagnosis and Management of Epilepsy," Concord Hospital Grand Rounds, Concord, New Hampshire.
- 2004 "Treatment Options in Childhood Epilepsy: Matching the Child with the Therapy," and "The Impact of Seizures and Anti-Epileptic Drugs on the Developing Brain," 22<sup>nd</sup> Annual Care of the Sick Child Conference, Orlando, Florida.
- 2004 "The Impact of Seizures on the Developing Brain," Neurology Grand Rounds, Albany Medical Center Albany, New York
- 2005 Neurology Grand Rounds, Emory School of Medicine, Atlanta, Georgia
- 2005 "Cortical Physiology: Normal Mechanisms and Epilepsy", and "Neonatal EEG," Clinical Neurophysiology Review Course, Scottsdale, Arizona
- 2005 "Neonatal Seizures." Pediatric Epilepsy Symposium, Scottsdale, Arizona
- 2005 "Injury and recovery following neonatal seizure," The 9<sup>th</sup> Cincinnati Neurofest, Cincinnati, Ohio
- 2005 "Animal models of neurodegeneration: How far do they go?" 3<sup>rd</sup> Annual Cincinnati Translational Neuroscience Symposium, Cincinnati, Ohio
- 2005 "Seizures in the Developing Brain." Yale University School of Medicine, Pediatric Grand Rounds, New Haven, Connecticut
- 2005 "Seizure-Induced Brain Damage" University of Massachusetts School of Medicine, Neurology Grand Rounds, Worcester, Massachusetts
- 2005 Visiting Professor, Child Neurology Society, Taiwan
- 2005 "This is not what mother nature had in mind: Effect of aberrant brain electrical activity on learning and memory." Fourth INMED/TINS Conference. Nature and nurture in brain development and neurological disorders. Las Ciotat, France.
- 2005 "Epilepsy and Its Impact on Children" Orange County Epilepsy Symposium. Epilepsy Through the Life Cycle. Orange, California.
- 2005 "Epilepsy in Adults" Neurologic Issues in Primary Care, Nashua, New Hampshire
- 2005 New Horizons III, "Progression in Epilepsy, the Clinical View," Washington, DC.
- 2006 Neurology Grand Rounds, "Treat the patient or the EEG?" University of Louisville, Louisville, Kentucky
- 2006 Neurology Grand Rounds, "Treat the patient or the EEG?" University of Kentucky, Lexington, Kentucky
- 2006 Neurology Grand Rounds, "Treat the patient or the EEG?" Cleveland Clinic, Cleveland, Ohio
- 2006 Neurology Grand Rounds, "Are Interictal EEG Abnormalities of any Consequence?", National Institutes of Health, Bethesda, Maryland
- 2006 Merritt-Putnam Symposium, "Preventing Epilepsy – Translating Experimental Evidence into Clinical Trials, 7<sup>th</sup> European Congress of Epileptology, Helsinki, Finland
- 2006 CME Café, "Epilepsy in the Elderly, Brooklyn, New York; Newark, New Jersey; Woodbury, Connecticut; Worcester, Massachusetts, Boston, Massachusetts, Hartford, Connecticut, Providence, Rhode Island; Bedford, New Hampshire; Portsmouth, New Hampshire.
- 2006 Dinner Symposium, "Role of Sodium Channels in Treatment of Epilepsy," Burlington, Vermont
- 2006 Gordon Research Conference, "Epileptic Rats Just Don't Get It," Colby College, Waterville, Maine

- 2006 Symposium on Convulsive and non-convulsive status epilepticus in childhood. University College of London Institute of Child Health, London, "Models of Status Epilepticus"
- 2006 Workshop on the Epileptic Encephalopathies. "Update on the Mechanisms of the Epileptic Encephalopathies" The National Centre for Young People with Epilepsy. Lingfield, England
- 2006 Pediatric Epilepsy Seminar for Child Neurology Residents, "Seizure and Epilepsies: Epidemiology, Classification and Genetics," "Epileptogenesis and Antiepileptogenesis," "EEG Workshop: Developmental Changes Including Neonatal EEG," Child Neurology Society, Pittsburgh, Pennsylvania
- 2006 Northern New England Neurological Society, Annual Meeting, "Consequences of interictal spikes on the EEG: Lessons to be learned from rats and man," Portsmouth, New Hampshire
- 2006 Department of Pharmacology, University of Toronto Seminar, "Effects of Interictal Spikes on the Brain"
- 2007 Pediatric Neurology Minifellowship. Principles of Pediatric Neuropharmacology," Seizure Mechanisms and Antiepileptic Drug Mechanism of Action," Effects of Seizures on the Developing Brain," Epilepsy in the Individual with Intellectual Disabilities," and "Genetics of Epilepsy." Winston –Salem, North Carolina
- 2007 Neurology Grand Rounds, Department of Neurology, University of Rochester, "Treat the Patient or the EEG"
- 2007 Neurology Grand Rounds, Medical College of Georgia, "Consequences of Seizures on the Developing Brain"
- 2007 Keynote speaker, University of Louisville School of Medicine, 3<sup>rd</sup> Annual Pediatric Epilepsy Update," "Status Epilepticus and Cluster Seizures; Consequences and Outcome", "Advances and Research in Understanding the Mechanisms of Neonatal Seizures: Implications for Treatment."
- 2007 Keynote speaker, "Epilepsy and Cognition: Cause or Effect?", "Epilepsy Cases: What Can The Teach Us?" 5<sup>th</sup> Annual Pediatric Neurology Update Seminar, Children's Hospital, Cleveland Clinic.
- 2007 Pediatric Epilepsy Seminar, "Seizures and Epilepsies: Epidemiology, Classification, and Genetics," Epileptogenesis and Antiepileptogenesis," "Neonatal EEG." Child Neurology Society, Quebec, Canada
- 2007 International Pediatric Neurology Minifellowship. Principles of Pediatric Neuropharmacology," Seizure Mechanisms and Antiepileptic Drug Mechanism of Action," Effects of Seizures on the Developing Brain," Co-Morbidities in Pediatric Epilepsy," and "Epilepsy in Adolescents." Winston-Salem, North Carolina
- 2007 Paediatric Epilepsy Training Level 3 Course, British Paediatric Neurology Association, Edinburgh, Scotland
- 2008 Pediatric Grand Rounds, "Effects of Seizures on the Developing Brain," Weill Cornell Medical College, New York

### **American Academy of Clinical Neurophysiology**

- 1989 "Seizures in the Developing Brain," Annual Meeting, Boston, Massachusetts
- 1990 "Effects of Seizures on Brain Development," Annual Meeting, Boston, Massachusetts
- 1992 Clinical Neurophysiology Review Course, "Cortical Physiology: Normal Mechanisms and Epilepsy", "Neonatal EEG: Normal and Abnormal Patterns", "Pediatric EEG", Boston, Massachusetts
- 2005 "Role of EEG Abnormalities in Epileptic Encephalopathy." American Academy of Clinical Neurophysiology, Scwhab Lecture

### American Academy of Neurology

- 1988 Half-Day Course, Neonatal Neurology, "Brain development, EEG, and neonatal seizures". Cincinnati, Ohio
- 1989 Breakfast seminar, "Seizure Disorders in Infants and Children", Chicago, Illinois
- 1990 Dinner Seminar, "Seizures in Infants and Children", Miami, Florida
- 1991 Symposium, "Drug Effects on the Human EEG: A Review," In "Frontiers in Cognition. Recent Research Findings," Sponsored by the Medical College of Georgia, satellite symposium of the American Academy of Neurology, Boston, Massachusetts
- 1991 Symposium, "Principles of Starting, Continuing, and Stopping Medications, satellite symposium of the American Academy of Neurology, Boston, Massachusetts
- 1991 Full-Day Course, Pediatric Neurology, "EEG in the Evaluation of Pediatric Epilepsy", Boston, Massachusetts
- 1991 Full-Day Course, Clinical EEG, "EEG in Epilepsy, Boston, Massachusetts
- 1991 Dinner Seminar, "Seizure Disorders in Infants and Children," Boston, Massachusetts
- 1992 Dinner Seminar, "Seizure Disorders in Infants and Children," San Diego, California
- 1993 Dinner Seminar, "Seizure Disorders in Infants and Children," New York, New York
- 1996 Kick-off Dinner Program, "Advances in Epilepsy," San Francisco, California
- 1996 Child Neurology Course, "New Directions in Medical Treatment of Epilepsy," San Francisco, California
- 1996 After-Dinner Program, "Case Studies in Pediatric Epilepsy," San Francisco, California
- 2001 Full-Day Course, Epilepsy, ΔEpilepsy Syndromes," Philadelphia, Pennsylvania

### American Academy of Pediatrics

- 1982 Three hour seminar, "Management of Seizure Disorders of Childhood," Annual meeting, New York, New York
- 1982 Roundtable Discussion, "Management of Seizure Disorders of Childhood," Annual meeting, New York, New York
- 1987 Workshop, "Update on Pediatric Seizure Management," Annual meeting, New Orleans, Louisiana
- 1987 Neurology Section Scientific Meeting. "The Use and Abuse of Neurodiagnostic Tests in the Evaluation of Children with Common Neurologic Disorders: Seizure Disorders." Annual meeting, New Orleans, Louisiana
- 1988 Joint Perinatology-Neurology seminar, "Treatment of Neonatal Seizures," Annual meeting, San Francisco, California
- 1988 Three hour seminar, "Modern Management of Seizures," Annual meeting, San Francisco, California
- 1989 Thirteenth Annual Pediatric Symposium, "Behavioral Disease Versus Seizures," and "Epilepsy Surgery Versus Medical Management," Tennessee chapter of the American Academy of Pediatrics, Tennessee Pediatric Society, Memphis, Tennessee
- 1989 Six hour seminar, "New Approaches to the Office Management of Seizures," Spring meeting, Orlando, Florida
- 1989 Plenary session, "Valproate monotherapy," Spring meeting, Orlando, Florida
- 1990 Symposium on Infantile Spasms, "Pathophysiology of Infantile Spasms," American Academy of Pediatrics, Seattle, Washington
- 1990 Workshop, "Management of Childhood Epilepsy," Annual meeting, Boston, Massachusetts
- 1991 Joint symposium of the American Academy of Pediatrics and The Royal Society of Medicine, "State of the Art - Epilepsy in Childhood," "Pathophysiology and Etiology of

- 1991 Seizures in the Infant and Young Child, London, England  
Pediatric Advances, Course, "Migraine Phenomenon in Children," "Etiological Factors in Cerebral Palsy," "Evaluation of Children After the First Seizure," and "Differentiation of Epileptic Seizures From Other Paroxysmal Activity," Kiawah, South Carolina
- 1991 Dialogue Session, "To Treat or Not To Treat Epilepsy," Three Hour Seminar, "Childhood Epilepsy," and "Neonatal Neurology", Annual Meeting, New Orleans, Louisiana
- 1991 Pediatric Advances, Course, "Update on Infantile Spasms", "The Child Who Stares", "Headaches in Children", "The First Seizure - To Treat or Not To Treat. That is the Question." Orlando, Florida.
- 1992 Pediatric Update II, "Migraine Related Syndromes," "Differentiation of Epileptic Seizures From Other Paroxysmal Activity," "The First Seizures: What Not to Do!", "Neurodiagnostic Tests: Uses and Abuses of EEGs, EPs, BEAMs, CTs, MRIs", Williamsburg, Virginia
- 1993 Dialogue Session, "All Seizure are Not Alike: Value of Identifying Epileptic Syndromes", Annual Meeting, Washington, D.C.
- 1994 State-of-the-Art Pediatrics, "Evaluation of the Child with Ataxia", "Spinal Cord Disease in Children", "Stupor and Coma: A Medical Emergency", "Epilepsy in children: Classification and Diagnosis", New York, New York.
- 1994 Workshop, "Epilepsy in Children", Symposium, "Status Epilepticus in Children", Annual Meeting, Denver, Colorado
- 1996 Workshop, "Neurology for the Pediatrician," Plenary Session, "The Genetics of Epilepsy Syndromes," Annual Meeting, Chicago, Illinois
- 2002 American Academy of Pediatrics-Indian Academy of Pediatrics International Colloquium. "Epilepsy in the Developing Brain," Boston, Massachusetts
- 2002 Seminars, "Seizure Pretenders," Selected Short Topic, "Neonatal Seizures: Current State of the Art."

#### **American EEG Society/American Clinical Neurophysiology Society**

- 1985 Joint Symposium, American EEG Society/American Society of EEG Technologists, "Brain Development in Neonates and Children," Orlando, Florida
- 1989 Symposium on Electrodiagnosis in Neurologic Prognosis, "Prognostic value of EEG and EPs Newborns and Young Infants, Annual meeting, New Orleans, Louisiana
- 1989 Annual Course, "EEG Abnormalities in Neonates," Annual meeting, New Orleans, Louisiana
- 1990 Symposium, "Rolandic Spikes: Are They Really Benign?" Annual Meeting, Houston, Texas
- 1992 Annual Course, "EEG Abnormalities in Neonates," Annual meeting, San Francisco, California
- 2001 Pierre Gloor Lecture, "Effects of Seizures on the Developing Brain: Where in the World are We?" Philadelphia, Pennsylvania
- 2003 Annual Meeting with AAEM and IFCN, Symposium, "Animal Models of Generalized Seizure," San Francisco, California

#### **American Epilepsy Society**

- 1987 American Epilepsy Society, "The Usefulness of the EEG as a Predictor of Epilepsy." Baltimore, Maryland
- 1989 Investigator's Workshop, American Epilepsy Society, "Transplantation and Epilepsy,"

- Boston, Massachusetts
- 1990 Mini-Fellow seminar. "Carnitine," American Epilepsy Society annual meeting, San Diego, California
- 1990 AES Annual Course, "Effect of Non-sex Hormones on Neuronal Excitability, EEG," American Epilepsy Society annual meeting, San Diego, California
- 1990 Merritt-Putnam Symposium, "Do Seizures Cause Brain Damage," San Diego, California
- 1991 Moderator, Children's Hour, "Match Wits with the Experts: The Highs and Lows of Pediatric Epileptology."
- 1992 AES Annual Course, "Benign Partial Seizures in Children", Seattle, Washington
- 1994 Merritt-Putnam Symposium "Implications for Epileptogenesis: Insights from Experimental Studies", New Orleans, Louisiana
- 1997 Children's Hour, "Absence Seizures"
- 1998 Symposium II. "Pre- and Postnatal Brain Development: The Basis for Age-Related Differences", San Diego, California
- 1998 Symposium. Surgical resection strategies in the functional Brain."Do Tumors and/or Cortical Malformations Alter Normal Brain Development? Implications for Surgical Treatment," San Diego, California
- 1990 Merritt-Putnam Symposium, "Age-related Effects of Seizure on the Developing Brain," Los Angeles, California
- 1999 Roundtable Discussion. "Consequences of Infrequent Seizures," Orlando, Florida
- 2000 Symposium, "Mechanisms of Epileptogenesis in Acquired Epilepsies in the Immature Brain: Targets for Clinical Evaluations," Los Angeles, California
- 2000 Topamax Scholar's Program, "Academic Medicine," Los Angeles, California
- 2001 Symposium, "Biomarkers and Surrogate Measures: The Next Step in Epilepsy Intervention Studies," "Protective Against Seizure-Induced Cognitive Impairment in the immature Brain: Functional Marker of Neuroprotection?" Philadelphia, Pennsylvania
- 2001 TOPScholar Symposium, "Career Challenges for the Clinician-Scientist," Philadelphia, Pennsylvania
- 2001 Investigator's Workshop, "Is Epilepsy a Progressive Disorder?" Philadelphia, Pennsylvania
- 2001 Roundtable, "Effects of Seizures on the Developing Brain," Philadelphia, Pennsylvania
- 2002 Merritt-Putnam Lectures on Epilepsy, "Consequences of Epilepsy: Of Mice and Men," Chicago, Illinois
- 2002 Merritt-Putnam Lectures on Epilepsy, "Drug Selection in Gender- and Age-Based Populations: Pediatric Patients," Boston, Massachusetts
- 2002 TOPScholar Symposium, "Career Challenges for the Clinician-Scientist," Philadelphia, Pennsylvania
- 2001 Roundtable, "Neurodevelopmental Effects of Seizures," Seattle, Washington
- 2002 TOPScholar Symposium, "Career Challenges for the Clinician-Scientist," Philadelphia, Pennsylvania
- 2003 Symposium, "Do Seizures Cause Brain Damage?" Boston, Massachusetts
- 2004 TOPScholar Symposium, "Career Challenges for the Clinician-Scientist," New Orleans, Louisiana
- 2005 Presidential Symposium, "Effects of Seizures and AEDs of Cognition and Behavior,"
- 2005 Special Interest Group, "Introduction to Tuberous Sclerosis"
- Mid-Year Meeting, "Introduction to Epilepsy," Chicago, Illinois
- Mid-Year Meeting, Workshop, "Epileptic or Non-Epileptic Seizures," Chicago, Illinois
- 2007 Annual Course, "Patients Should Be Told About SUDEP – No," AES Annual Meeting, Philadelphia, Pennsylvania

### **Child Neurology Association**

- 1986 Symposium , "Seizures, EEG, and Brain Development," Boston, Massachusetts
- 1992 Organizer, Introduction, "Controversies in Epilepsy," New Orleans, Louisiana
- 1992 CNS Practice Committee Satellite Symposium, Neonatal Neurology: How to be More Effective in the Nursery, "Neonatal Seizures: Controversies in Diagnosis and Management," New Orleans, Louisiana
- 1995 Organizer, "Controversies in Epilepsy: The Ketogenic Diet", Baltimore, Maryland
- 1995 Organizer, "Neuropharmacology of Pediatric Neurology", Baltimore, Maryland
- 1998 TOPScholar Course, "Classification of Seizures and Epilepsy, "Disease Modification," and "EEG during Developmental" Montreal, Canada
- 1999 TOPScholar Course, "Classification of Seizures and Epilepsy, "Disease Modification," and "EEG during Developmental" Memphis, Tennessee
- 2001 TOPScholar Course, "Classification of Seizures and Epilepsy, "Disease Modification," and "EEG during Developmental" Victoria, British Columbia, Canada
- 2001 Symposium, "Epilepsy Surgery in Children: When, Why, and How," Victoria, British Columbia, Canada
- 2002 TOPScholar Course, "Classification of Seizures and Epilepsy, "Disease Modification," and "EEG during Developmental" Washington, DC
- 2003 TOPScholar Course, "Classification of Seizures and Epilepsy, "Disease Modification," and "EEG during Developmental" Miami, Florida
- 2004 TOPScholar Course, "Classification of Seizures and Epilepsy, "Disease Modification," and "EEG during Developmental" Ottawa, Canada
- 2004 Identifying the Epilepsy Syndrome. Why Does It Matter? "The Concept of the Epilepsy Syndrome: Background and Classification" Ottawa, Canada

### **Eastern Association of Electroencephalographers**

- 1989 Brain Development Mini-Symposium, "Seizures in the Immature Brain, Annual Ski Meeting, Val David, Quebec, Canada
- 1994 Kindling Mini-Symposium, "Kindling and Learning", Annual Ski Meeting, Saint Sauveur, Quebec, Canada
- 1996 Organizer, "EEG, Epilepsy, and Sleep", Annual Ski Meeting, Saint Sauver, Quebec, Canada
- 2000 Cortical Dysplasia, "Pathophysiology of Cortical Dysplasia," Annual Ski Meeting, Saint Sauveur, Quebec, Canada

### **Epilepsy Foundation of America**

- 1989 Symposium on Childhood Epilepsy and Its Treatment, "Effect of Not Treating Seizures," Epilepsy Foundation of America Annual Meeting, Memphis, Tennessee
- 1989 Update on the Management of Seizure Disorders: "Polytherapy-Monotherapy and Carbamazepine" and "Anti-convulsant drug therapy - When to start and when to stop." Epilepsy Foundation of America, Florida Chapter, Orlando, Florida
- 1991 National Conference, Epilepsy and the Mind: "Effect of Epilepsy on Neuropsychological Function", Miami, Florida
- 2003 EFA/Centers for Disease Control and Prevention, Conference on Living Well with Epilepsy II, "Recognition and Diagnosis of Epilepsy in Children," Baltimore, Maryland

### Harvard Medical School Continuing Education Courses

1988	Harvard Medical School Postgraduate Course, Neurosurgery Review Course, "Epilepsy Surgery in Children"
1988	Harvard Medical School Postgraduate Course, Pediatric Neurology Course, The Children's Hospital-Massachusetts General Hospital, "Epilepsy Surgery in Children" and "Seizure Overview"
1990	Harvard Medical School Postgraduate Course, Pediatric Neurology Course, "Epilepsy Surgery in Children"
1991	Harvard Medical School Postgraduate Course, Mental Retardation and Developmental Disabilities, "Do Seizures Cause Brain Damage" and "Epilepsy Surgery in Children"
1991	Harvard Medical School Postgraduate Course, Intensive Review of Neurology, "The Physiology of Epilepsies"
1992	Harvard Medical School Postgraduate Course, Intensive Review of Neurology, "Temporal Lobe Seizures"
1992	Harvard Medical School Postgraduate Course, Pediatric Neurology Course, The Children's Hospital-Massachusetts General Hospital, "Classification of Seizures," and "Guess the Seizure Type"
1993	Harvard Medical School Postgraduate Course, The Comprehensive Management of Epilepsy, "Classification of Seizures and the Epilepsies"
1993	Harvard Medical School Postgraduate Course, Brain Injury and Pediatric Cardiac Surgery, "EEG Findings,"
1993	Harvard Medical School Postgraduate Course, Intensive Review of Neurology, "Childhood Epilepsy"
1994	Harvard Medical School Postgraduate Course, Pediatric Neurology Course, The Children's Hospital-Massachusetts General Hospital, "Neonatal Seizures"
1994	Intensive Review of Neurology, "Medical Evaluation for Epilepsy Surgery"
1998	Pharmacology & Clinical Therapeutics Course, "Treatment of Seizures"
1999	Harvard Medical School Postgraduate Course, "Sequelae of Seizure Activity"
2000	Harvard Medical School Postgraduate Course, The Michael J. Bresnan Child Neurology Course. "Basic Neurophysiology of Epilepsy" and "Epilepsy Surgery: Evaluation of Candidates"

### National Institutes of Health

1994	Workshop on Antiepileptic Drug Trials, "Animal Toxicology", Bethesda, Maryland Discussant, Co-Morbidities in Epilepsy, Curing Epilepsy, NIH, Bethesda, Maryland
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### Harvard Medical School Teaching

1993	Tutor, Human Nervous System & Behavior
1994	Technology and Medicine for 4th year students, "Epilepsy"
2004	The Neurobiology of Disease, "Pathophysiology of Epilepsy"

### Visiting Professor

1990	Medical College of Virginia, Richmond, Virginia
1992	Medical College of Georgia, Augusta, Georgia
1993	Izakk Walton Killam Hospital for Children, Dalhousie University, Halifax, Nova Scotia

## *Holmes - CV*

1994	University of Manitoba, Winnipeg, Ontario
1995	Medical College of Georgia, Augusta, Georgia
1997	University of Cincinnati, Cincinnati, Ohio
1998	Cleveland Clinic, Cleveland, Ohio
1998	University of Michigan, Ann Arbor, Michigan
1998	Ohio State University, Columbus, Ohio
2000	Medical College of Georgia, Augusta, Georgia
2001	State University of New York, Buffalo, Buffalo, New York
2005	Denver Children's Hospital, University of Colorado School of Medicine, Denver, Colorado

### **Teaching Awards**

1986	The Newington Children's Hospital Teaching Award, awarded by Pediatric Residents of the University of Connecticut Residency Program
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### **PRINCIPAL CLINICAL AND HOSPITAL SERVICE RESPONSIBILITIES:**

1979-1986	Director, Clinical Neurophysiology Laboratory, Newington Children's Hospital
1986-1988	Director, Pediatric Epilepsy Program, Medical College of Georgia
1988-1995	Director, Clinical Neurophysiology Laboratory, Children's Hospital, Harvard Medical School
1995-1998	Director, Epilepsy Unit, Children's Hospital, Harvard Medical School
1995-1998	Director, Division of Clinical Neurophysiology and Epilepsy, Children's Hospital, Harvard Medical School
1998-2002	Director, Center for Research in Pediatric Epilepsy

### **PUBLICATIONS:**

1. **Holmes GL**, Shaywitz BA: Strumpell's pure familial spastic paraplegia: Case study and review of the literature. Journal of Neurology, Neurosurgery, Psychiatry 1977;40:1003-1008
2. **Holmes GL**: Reye's Syndrome: A review of six cases. Virginia Med 1977;194:466-468. Abstracted in Medalex Digest/Pediatrics 1978;7:99-100.
3. **Holmes GL**, Trader S, Ingnatiadis P: Intraspinal enterogenous cysts: A case report and review of pediatric cases in the literature. American Journal of Diseases of Children 1978;132:906-908.
4. **Holmes GL**: Evaluation and prognosis in nonorganic failure to thrive. Southern Medical Journal 1979;72:693-695.
5. **Holmes GL**, Logan WJ, Kirkpatrick B, Myer E: Central nervous system maturation in the stressed premature. Annals of Neurology 1979;6:518-522.
6. **Holmes GL**, Logan WJ: A syndrome of infantile central nervous system degeneration. American Journal of Disease of Children 1980;134:262-266.

7. **Holmes GL**, Dardick KR: (Gelastic seizures) in childhood. Clinical Pediatrics 1980;19:295-296.
8. **Holmes GL**, Sackallares C, Ragland M, McKiernan J, Dreifuss F: Pseudoseizures in childhood. A clinical evaluation using EEG FM radiotelemetry and video tape monitoring. Journal of Pediatrics 1980;97:554-558.
9. **Holmes GL**: The electroencephalogram as a predictor of seizures following cerebral infarction. Clinical EEG 1980;11:83-86.
10. **Holmes GL**, Hafford J, Zimmerman A: Primary position upbeat nystagmus following meningitis. Annals of Ophthalmology 1981;13:935-936.
11. **Holmes GL**, McKeever M, Russman BS: Long-term monitoring of seizure patients. Connecticut Medicine 1981;45:358-362.
12. Parker D, Mitchell P, **Holmes GL**: Poland-Mobius syndrome. Journal of Medical Genetics 1981;18:317-320.
13. Dreifuss FE, **Holmes GL**, Sackallares C: Epilepsy and pseudoseizures in children. Advances in Epileptology, XII Epilepsy International Symposium Dam M, Gram L, Penry JK (Eds.) Raven Press, 1981;323-327.
14. **Holmes GL**, Rowe J, Hafford J, Schmidt R, Testa M, Zimmerman A: Prognostic value of the electroencephalogram in neonatal asphyxia. Electroencephalography and Clinical Neurophysiology 1982;53:60-72.
15. **Holmes GL**: Roberts Bartholow: In search of anatomic localization. New York State Journal of Medicine 1982;82:238-241.
16. **Holmes GL**, McKeever M, Saunders A: Epileptiform activity in aphasia of childhood. An epiphenomenon? Epilepsia 1982;22:631-639.
17. **Holmes GL**, McKeever M, Russman BS: Prolonged EEG and video monitoring in children. American Journal of Diseases of Children 1982;136:608-611.
18. Vanderzant C, Fitz R, **Holmes GL**, Greenberg HS, Sackallares C: Treatment of primary reading epilepsy with valproic acid. Archives of Neurology 1982;39:452-453.
19. **Holmes GL**, Blair S, Eisenberg E, Scheebaum R, Margraf J, Zimmerman AW: Tooth-brushing-induced epilepsy. Epilepsia 1982;23:657-661.
20. McKeever M, **Holmes GL**, Russman BS: Speech abnormalities in seizures: A comparison of absence and partial complex seizures. Brain and Language 1983;19:25-32.
21. **Holmes GL**, Zimmerman AW: Temporomandibular joint pain dysfunction syndrome: A rare cause of headaches in adolescents. Developmental Medicine and Child Neurology 1983;25:601-605.
22. Goff G, Cerciello R, **Holmes GL**: Bilateral Bell's palsy. American Journal of Diseases of

Children 1983;137:83.

23. **Holmes GL**: Effects of serial seizures on subsequent kindling in the immature brain. Developmental Brain Research 1983;6:190-192.
24. **Holmes GL**, Rowe J, Hafford J, Robinson S, Boulay J: Value of monitoring respirations during routine electroencephalography in infants at risk for sudden infant death syndrome (SIDS). American Journal of EEG Technology 1983;23:107-112.
25. **Holmes GL**, Rowe J, Hafford J: Significance of reactive burst suppression following asphyxia in full-term infants. Clinical EEG 1983;14:138-141.
26. **Holmes GL**, Weber DA: Increased susceptibility to pentylenetetrazol induced seizures in adult rats following electrical kindling during brain development. Developmental Brain Research 1983;11:312-314.
27. **Holmes GL**, McKeever M, Russman BS: Abnormal behavior or epilepsy: Use of long-term electroencephalographic and video monitoring with severely to profoundly mentally retarded patients with seizures. American Journal of Mental Deficiency 1983;87:456-458.
28. **Holmes GL**, Moshé SL, Albala BJ: Effect of single brief seizure on subsequent seizure susceptibility in the immature rat. Archives of Neurology 1984;41:853-855.
29. Chatot CL, Klein NW, Clapper ML, Resor SR, Singer WD, Russman BS, **Holmes GL**, Mattson RH, Cramer JA: Human serum tetraogenicity detected by rat embryo cultures: Epilepsy, anticonvulsant drugs and nutrition. Epilepsia 1984;25:205-216.
30. **Holmes GL**: Partial Complex Seizures in Children: An Analysis of 69 Seizures in 24 Patients Using EEG FM Radiotelemetry and Videotape Recording. Electroencephalography and Clinical Neurophysiology 1984;57:13-20.
31. **Holmes GL**, Weber DA: The effect of progesterone on kindling: A development study. Developmental Brain Research 1984;16:45-53.
32. **Holmes GL**, Weber DA, Kloczko N, Zimmerman AW: Relationship of endocrine function to inhibition of kindling. Developmental Brain Research 1984;16:55-59.
33. **Holmes GL**, Weber DA, Kloczko N, Zimmerman AW: Effect of hormones on seizures in animals. In: Advances in Epileptology, XV Epilepsy International Symposium, RH Mattson, RJ Porter, AA Ward, Jr, and M Dams (Eds) Raven Press, 1984;pp. 265-268.
34. Rowe J, **Holmes GL**, Hafford J, Baboval D, Robinson S, Phillips, A, Rosenkrantz T, Raye J: Prognostic value of the electroencephalogram in term and preterm infants following neonatal seizures. Electroencephalography and Clinical Neurophysiology 1985;60:183-196.
35. **Holmes GL**, Weber DA: Effects of pregnancy on development of seizures. Epilepsia 1985;26:299-302.
36. **Holmes GL**, Weber DA: Effect of seizures during pregnancy on seizure susceptibility in offspring. Epilepsia 1985;26:421-423.

37. **Holmes GL**, Weber DA: Effect of hypoxic-ischemic encephalopathies on kindling in the immature brain. Experimental Neurology 1985;90:194-203.
38. **Holmes GL**, McKeever M, Russman B: PLEDs following partial complex seizure. American Journal of EEG Technology 1985;25:192-199.
39. **Holmes GL**, Weber DA: ACTH: Effect of ACTH on seizure susceptibility in the developing brain. Annals of Neurology 1986;20:82-88.
40. **Holmes GL**: Partial seizures in children. Pediatrics 1986;77:725-731.
41. **Holmes GL**, Russman B: Shuddering attacks: Evaluation using electroencephalographic frequency modulation radiotelemetry and video monitoring. American Journal of Diseases in Children 1986;140:72-73.
42. Dreifuss F, Farwell J, **Holmes G**, Joseph C, Lockman L, Madsen JA, Minarcik CJ, Rothner AD, Shewmon DA: Infantile spasms: a comparative trial of nitrazepam and corticotropin. Archives of Neurology 1986;43:1107-1110.
43. Schultz-Krohn WA, Thompson J, **Holmes GL**: Effect of systemic estrogen on seizure susceptibility in the immature animal. Epilepsia 1986;27:538-541.
44. **Holmes GL**, McKeever M, Adamson M: Absence seizures in children: clinical and electroencephalographic features. Annals of Neurology 1987;21:268-273.
45. Thompson J, **Holmes GL**: Failure of ACTH to alter rate of kindling in the immature brain. Epilepsia 1987;28:17-19.
46. **Holmes GL**, Thompson JL, Smeyne RJ, Wallace RB: Failure of neocortical transplants to alter seizure susceptibility in previously kindled rats. Epilepsia 1987;28:242-250.
47. Cassidy SB, Sheehan NC, Farrell DF, Grunnet M, **Holmes GL**, Zimmerman AW: Connatal Pelizaeus-Merzbacher disease: evidence for an autosomal recessive form and genetic heterogeneity. Pediatric Neurology 1987;3:300-305.
48. **Holmes GL**, Thompson JL: Rapid kindling in the prepubescent rat. Developmental Brain Research 1987;36:281-284.
50. Smith JR, Flanigin HF, King DW, Gallagher BB, Murro AM, **Holmes GL**, Huh K: Analysis of a four-year experience with depth electrodes and a two-year experience with subdural electrodes in the evaluation of ablative seizure surgery candidates. Applied Neurophysiology 1987;50:380-385.
51. **Holmes GL**, Thompson JL: Effects of kainic acid on seizure susceptibility in the developing brain. Developmental Brain Research 1988;39:51-59.
52. Thompson JL, Bryan M, Bates T, **Holmes GL**: Failure of kindling to alter susceptibility to kainic acid. Developmental Brain Research 1988;38:149-151.
53. **Holmes GL**, Thompson JL: Effects of serial administration of kainic acid on the developing

brain. Neuropharmacology 1988;27:209-212.

54. Thompson JL, **Holmes GL**, Taylor GW, Feldman DS: Effects of kynurenic acid on amygdaloid kindling in the rat. Epilepsy Research 1988;2:302-308.

55. **Holmes GL**, Thompson JL, Bates T, Feldman DS: Behavioral effects of kainic acid administration on the immature brain. Epilepsia 1988;29:721-730.

56. Campbell LR, Bunyapen C, **Holmes GL**, Howell CG Jr, Kanto WP: Left focal seizures following right carotid ligation for extracorporeal membrane oxygenation. Journal of Pediatrics 1988;113:110-113.

57. Thompson JL, **Holmes GL**, Feldman DR: Transfer following rapid kindling in the prepubescent rat. Epilepsy Research 1989;3:222-226.

58. Makari GS, **Holmes GL**, Murro AM, Smith JR, Flanigin HF, Cohen, MJ, Huh K, Gallagher BS, Ackell AB, Campbell R, King DW: Corpus callosotomy for the treatment of intractable epilepsy in children. Journal of Epilepsy 1989;2:1-7.

59. Sethi KD, Hess DC, Harbour RC, **Holmes GL**. Gaze-evoked involuntary movements. Movement Disorders 1990;5:139-142

60. **Holmes GL**, Thompson JL, Marchi TA, Gabriel PS, Hogan MA., Feldman DS: Effects of seizures on learning, memory, and behavior in the genetically epilepsy-prone rat. Annals of Neurology 1990;27:24-32.

61. **Holmes GL**, Thompson JL, Carl GF, Gallagher BB, Hoy J, McLaughlin M: Effect of 2-amino-7-phosphonohepatanoic acid (APH) on seizure susceptibility in the prepubescent and mature rat. Epilepsy Research 1990;5:125-130.

62. Goldberg W, **Holmes GL**, Gould J: Effects of corpus callosotomy on the electroencephalogram. Journal of Epilepsy 1989;2:73-81.

63. Carl GF, Critchfield JW, Thompson JL, **Holmes GL**, Gallagher, BB, Keen CL: Genetically epilepsy-prone rats are characterized by altered trace element concentrations. Epilepsia 1990;31;247-252.

64. Konkol RJ, **Holmes GL**, Thompson JP: The effect of regional differences in noradrenergic neurogrowth patterns on juvenile kindling. Developmental Brain Research 1990;52:25-29.

65. Carrazana E, Barlow J, **Holmes G**: Infantile spasms provoked by partial seizures. Journal of Epilepsy 3;1990:97-100.

66. Cohen MJ, **Holmes GL**, Campbell R, Smith JR, Flanigin HF: Memory performance following unilateral electrical stimulation of the hippocampus in a child with right temporal lobe epilepsy. Journal of Epilepsy 1990;3:115-122.

67. Thompson JL, **Holmes GL**, Carl FG: Effect of age on latency, severity, and reproducibility of seizures in the genetically epilepsy-prone rat. Epilepsia 1991;32:161-167.

68. Brunquell PJ, Taylor GW, **Holmes GL**, Feldman DS: Ontogenesis of lumbar spinal

somatosensory evoked potentials after posterior tibial nerve stimulation in the rat. Electroencephalography and Clinical Neurophysiology 1990;77:112-118.

69. **Holmes GL**, Mares P, Moshé SL: Consequences of epileptic seizures in the developing brain. Experimental Brain Research 1991;20.

70. Mares P, Moshé SL, **Holmes GL**: Epileptogenesis in the immature brain. I. Cortical mechanisms. Experimental Brain Research 1991;20:147-149.

71. Moshé SL, **Holmes GL**, Mares P: Epileptogenesis in the immature brain. II. Subcortical mechanisms. Experimental Brain Research 1991;20:151-153.

72. Smith JR, Flanigin HF, King DW, Gallagher BB, Murro AM, **Holmes GL**, Campbell LR, Lee G, Wheless J. An eight year experience with depth electrodes in the evaluation of ablative seizure surgery candidates. Stereotactic and Functional Neurosurgery 1990;54-55:60-66.

73. Liu GT, **Holmes GL**. Chickenpox with delayed contralateral hemiparesis: A case with MRI. Pediatric Neurology 1990;6:131-134.

74. Carl GF, Critchfield JW, Thompson JL, McGinnis LS, Wheeler GA, Gallagher BB, **Holmes GL**, Hurley LS, Keen CL. Effect of kainic- induced seizures on tissue trace element concentrations in the rat. Neuroscience 1989;33:223-227.

75. Ramsay RE, Wilder BJ, Murphy JV, **Holmes GL**, Uthman B, Slater J, Morris DD, Shu VS, Pierce MW. Safety and efficacy of valproic acid compared to phenytoin as sole therapy for primary generalized tonic-clonic seizures in newly diagnosed patients. Journal of Epilepsy 1992;5:55-60.

76. Helmers S, Weiss MJ, **Holmes GL**. Seizures presenting as apnea in infancy. Journal of Epilepsy 1992;4:173-180.

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