

Curriculum Vitae

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Present Position: Endowed Professor of Neurosurgery & Pediatric Neurosurgery.
Lucile Packard Children’s Hospital at Stanford University
Stanford, CA 94305
Director, Regional Pediatric Neurosurgery

Associate Chair, Department of Neurosurgery
Stanford University School of Medicine
Stanford, CA 94305

Chief, Pediatric Neurosurgery
Lucile Packard Children’s Hospital
Stanford, CA 94305

Co-Director Center for Children’s Brain Tumors
Lucile Packard Children’s Hospital
Stanford, CA 97305

Education:

- 1963 – 1966 University of Florida, Gainesville, Florida (BS)
- 1966 - 1970 Tulane University, School of Medicine, MD

Honors:

- 1965 American Cancer Society, Research Grant in Cellular Biology
- 1966 Phi Delta Epsilon, Premedical Honor Society
(Specialized Undergraduate Honors Program)
- 1966 – 1968 Tulane University, Scholarship Medical Training
- 1977 – 1978 American Cancer Society, Junior Faculty Clinical Fellowship
- 1978 – 1979 American Cancer Society, Junior Faculty Clinical Fellowship
- 1979 – 1980 American Cancer Society, Junior Faculty Clinical Fellowship
- July 1, 1980 -
June 30, 1985 Pharmacokinetics of Drug Delivery,
Teacher Investigator Development Award to CNS tumors.
- 1981 University of California, San Francisco, School of Medicine,
Golden Amygdala Award, Distinction in Teaching
- 1984 University of California, San Francisco, School of Medicine,
Golden Amygdala Award, Distinction in Teaching
- October 26, 1987 Congress of Neurological Surgeons, 37th Annual Meeting
The Preuss Award, Paper
- March 23, 1992 Association for the Care of Children's Health, *Certificate of Appreciation*
- November 30, 2007 Lucile Packard Children's Hospital,
R.O.S.E Award, Recognition of Service Excellence
- July 2008 Hydrocephalus Association, *Distinguished Achievement Award*

Fellowship and Residency Training:

1970 – 1971	Tulane University, Affiliated Hospitals, Internship
1971 – 1972	Tulane University, VA Hospital, Residency in Neurosurgery
1972 – 1973	Oschner Foundation Hospital, General Surgery Residency
1973 – 1975	Oschner Foundation Hospital, Neurosurgery Residency
1975 – 1976	Tulane University, VA Hospital, Neurosurgery Chief Resident
1976 – 1977	Tulane University, Charity Hospital, Neurosurgery Chief Resident
1977 - 1978	University of California, School of Medicine, San Francisco, Neuro-Oncology Fellow under Charles B. Wilson, MD

Licensure and Board Certifications:

1970	Licensure R – 048764 L – 011377	Louisiana
1977	Licensure C – 37469	California
1983	Licensure 4735	Nevada
1980	The American Board of Neurological Surgeons	
1996	The American Board of Pediatric Neurological Surgery	
1999	RHC 128864 Fluoroscopy, California	
2006	The American Board of Pediatric Neurological Surgery, Recertification	

Employment History:Faculty Appointments

June – Sept. 1967	Research Assistant, Department of Anatomy, Tulane University, School of Medicine,
1967 – 1969	Clinical Assistant, Department of Neurosurgery, Tulane University, School of Medicine,
1977 – 1978	Clinical Instructor, Neurological Surgery University of California, San Francisco, School of Medicine
1978 – 1983	Assistant Professor in Residence, Neurological Surgery University of California, San Francisco, School of Medicine

1983 – 1988	Associate Professor in Residence, Neurological Surgery University of California, San Francisco, School of Medicine
1983 – 1988	Associate Professor in Residence, Pediatrics University of California, San Francisco, School of Medicine
1987 – 1995	Director, Division of Pediatric Neurosurgery, University of California, San Francisco, School of Medicine
1988 – 1995	Professor in Residence, Neurological Surgery, University of California, San Francisco, School of Medicine
1988 – 1995	Professor in Residence, Department of Pediatrics University of California, San Francisco, School of Medicine,
1992 – 1995	Vice-Chair, Department of Neurological Surgery, University of California, San Francisco, School of Medicine
1995 – 1999	Clinical Professor, Neurological Surgery and Pediatrics, University of California, San Francisco, School of Medicine
1999 – 2002	Clinical Professor, Neurological Surgery, University of California, Davis, School of Medicine
2004 – Present	Endowed Professor of Neurosurgery & Pediatric Neurosurgery Lucile Salter Packard Children’s Hospital & Stanford University Medical Center
2004 – Present	Director, Regional Pediatric Neurosurgery
2004 – Present	Co-Director, Center for Children’s Brain Tumors Lucile Salter Packard Children’s Hospital

Hospital Appointments:

1974 – 1975	Emergency Room Physician Morgan City General Hospital, Morgan City, Louisiana
1977 – 1999	Attending Neurosurgeon Moffitt Hospital, University of California, San Francisco

1977 – 1995	Consultant in Neurosurgery VA Medical Centers Livermore, California Fresno, California Reno, Nevada
1978 – 1998	Consultant in Neurosurgery VA Hospital, San Francisco, California
1978 – 1998	Attending Neurosurgeon San Francisco General Hospital, San Francisco, California
1980 – 1995	Attending Neurosurgeon Ralph K. Davies Hospital, San Francisco, California
1982 – 1998	Attending Neurosurgeon Mt. Zion Hospital, San Francisco, California
1983 – Present	Attending Neurosurgeon Renown Medical Center, Reno, Nevada
1983 – Present	Attending Neurosurgeon St. Mary's Hospital, Reno, Nevada
1983 – 1999	Attending Neurosurgeon CPMS/CMS Children's Hospital, San Francisco, California
1995 – 2002	Attending Neurosurgeon Mercy General Hospital, Sacramento, California
1995 – 2006	Attending Neurosurgeon Sutter Medical Center, Sacramento, California
1995 – 1997	Director, Pediatric Neurosurgery Sutter Medical Center, Sacramento, California
1997 – 2004	Director, Pediatric Neurosciences Sutter Medical Center, Sacramento, California
1998 – 2004	Director, Gamma Knife Program Sutter Health System, Sacramento, California

1998 – Present	Attending Neurosurgeon Shriners Hospitals for Crippled Children San Francisco, California Sacramento, California
2002 – 2004	Director, Sutter Neurosciences Institute Sutter Health System, Sacramento, California
2004 – Present	Endowed Professor of Neurosurgery & Pediatric Neurosurgery Lucile Packard Children’s Hospital at Stanford University Medical Center
2004 – Present	Director, Regional Pediatric Neurosurgery Lucile Packard Children’s Hospital at Stanford University Medical Center
2004 – Present	Associate Chair, Department of Neurosurgery Lucile Packard Children’s Hospital at Stanford University Medical Center
2007 – Present	Chief, Pediatric Neurosurgery Lucile Packard Children’s Hospital at Stanford University Medical Center
2007 – Present	Co-Director, Center for Children’s Brain Tumors Lucile Packard Children’s Hospital at Stanford University Medical Center
2011-Present	Attending Neurosurgeon California Pacific Medical Center, San Francisco, California

Memberships:

American Academy of Neurological Surgery
 American Academy of Pediatrics
 American Association of Neurological Surgeons
 American Association of Neurological Surgeons, Pediatric Section & Tumor Section
 American College of Surgeons
 American Society of Clinical Oncology
 American Society of Pediatric Neurosurgery
 California Association of Neurological Surgeons
 California Medical Association Political Action Committee
 California Medical Association
 Children’s Cancer Group
 Congress of Neurological Surgeons
 Hydrocephalus Association
 International Society for Pediatric Neurosurgery
 Neurosurgery PAC
 Neurosurgical Society of America

Society of Neurological Surgeons
 Society for Neuro-Oncology
 Santa Clara County Medical Association
 The Western Neurosurgical Society
 The American Board of Neurological Surgery
 The American Board of Pediatric Neurological Surgery

Professional Competence:

1981 – 1984	Long Range Planning Committee – Pediatric Neurological Surgery American Association of Neurological Surgeons
1981 – 1984	Long Range Planning Committee – Skull Base Tumors American Association of Neurological Surgeons
1981 – 1985	Chairman, Laser Subcommittee of the Joint Committee on Drugs and Devices American Association of Neurological Surgeons
1981 – 1983	Chairman, Neurosurgery Section, Northern California Chapter American College of Surgeons
1982 – 1992	Membership Committee, Pediatric Section American Association of Neurological Surgeons
1982 – 1992	Donald Matson Award Committee, Pediatric Section American Association of Neurological Surgeons
1983 – 2006	Professional Relations and Peer Review Committee California Association of Neurological Surgeons
September 1, 1983	Visiting Professor Department of Neurosurgery, University of Oregon, Eugene, Oregon
1984 – 1995	Education Committee, American Society for Pediatric Neurosurgery
1984 – 1989	Chairman, Publications Section, Committee on Nervous Systems Tumors Congress of Neurological Surgeons
May 28 – 30, 1984	Visiting Professor, Department of Neurosurgery, University of Toronto, Hospital for Sick Children Toronto, Ontario, Canada
1985	Scientific Program Committee: Discussion Group Committee Congress of Neurological Surgeons

May 20 – 23, 1986	Guest Examiner, American Board of Neurosurgery, Salt Lake City, Utah
October 9 – 10, 1986	Visiting Professor, Children's Hospital of Philadelphia Philadelphia, Pennsylvania
February 26 – 27, 1987	Visiting Professor, Chicago Children's Memorial Hospital Northwestern University, Chicago, Illinois
April 12 – 13, 1988	Visiting Professor, Department of Neurosurgery, Wayne State University, Detroit, Michigan
April 1989 – Present	Member at Large, Pediatric Section American Association of Neurological Surgeons
April 19 – 21, 1989	Visiting Professor, Division of Pediatric Neurosurgery, New York University, School of Medicine
May 6 – 8, 1990	Visiting Professor, Bruce Hendrick Professor, Pediatric Neurosurgery, University of Toronto, Hospital for Sick Children, Toronto, Ontario, Canada
1992 – Present	New Study Committee, Children's Cancer Group
1993 – 1994	Program Director, Western Neurosurgical Society
Oct- Nov 1995	Organizing Committee, 11 th International Conference on Brain Tumor Research & Therapy, Napa, California
1995 – 1999	Visiting Professor, Brain Tumor Planning Committee, Pediatric Oncology Group
1998	Visiting Professor University of Pittsburgh, Pittsburgh, Pennsylvania
1999 – Present	Member, Board of Directors, California Association of Neurological Surgeons (CANS)
1999 – 2001	Secretary, California Association of Neurological Surgeons (CANS)
2002 – 2003	2 nd Vice President, California Association of Neurological Surgeons (CANS)
2003 – 2004	1 st Vice President, California Association of Neurological Surgeons (CANS)
2004 – Present	Co-Director, Center for Children's Brain Tumors, Stanford, California
2005 – 2006	President, California Association of Neurological Surgeons (CANS)

- 2009 – Present Curriculum Committee, Society of Neurological Surgeons
- 2012 – Present Nominating Committee, California Association of Neurological Surgeons

Public Service:

- 1986 – 1995 Insurance Mediation Committee, San Francisco Medical Society
- 1984 – 1995 Medical Advisory Board, Research Foundations, Guardians of Hydrocephalus
- 1984 – Present Medical Advisory Board, Hydrocephalus Association
- 1985 – Present Medical Advisory Board, Northern California, Spina Bifida Association
- 1990 – Present Professional Advisory Board, National Tuberous Sclerosis Association
- 1992 – Present Medical Advisory Board, The National Neurofibromatosis Foundation, Inc.
- June 1993 Advisory Board, 5th International Symposium on Pediatric Neuro-Oncology and Second Consensus Conference on Pediatric Neurosurgery, Marseille, France
- 1994 – Present Medical Director, Northern California “Ride for Kids” Pediatric Brain Tumor Foundation
- 1995 – Present Member, Board of Directors, California Chapter, National Neurofibromatosis Foundation
- 1995 – Present Scientific Reviewer of Research Proposals, Hydrocephalus Research Foundation
- 1995 – Present Scientific Reviewer of Research Proposals, National Brain Tumor Foundation

Editorial Boards:

- 1981 – 1984 Assistant Editor, *Clinical Neurosurgery*
- 1989 – Present Editorial Board, *Neurosurgical Consultation*
- 1998 – Present Editorial Board, *Journal of Radiosurgery*
- 1998 – Present Editorial Board, *Surgical Neurology*
- 2009 – Present Editorial Board, *Child’s Nervous System*

Scientific Journal Peer Reviewer:

1979 – Present	Reviewer, <i>Neurosurgery</i>
1979 – Present	Reviewer, <i>Journal of Neurosurgery</i>
1980 – Present	Reviewer, <i>Pediatrics</i>
1985 – Present	Reviewer, <i>Journal of Neuro-Oncology</i>
1985 – Present	Reviewer, <i>Pediatric Neurosurgery</i>
1986 – 1995	Reviewer, <i>Surgery Gynecology and Obstetrics</i>

University Service:

1986 – 1995	Director, Laser Instructional Course, University of California, and San Francisco, California
1986 – 1995	Director, Neurosurgery Postgraduate Course, University of California, San Francisco, California
1982	Chief of Neurological Surgery Search Committee Veterans Administration Medical Center, San Francisco, California
1982 – 1996	Risk Management Committee, University of California, San Francisco, California
1983 – 1995	Incident Report Committee, University of California, and San Francisco, California
1983 – 1995	Ad Hoc Peer Review Committee, University of California, San Francisco, California
1984 – 1995	Chairman, Ad Hoc Committee on Lasers, University of California, San Francisco, California
1986 – 1995	Chairman, Laser Subcommittee of Operating Room Committee University of California, San Francisco, California
1986 - 1995	O.R. Action Committee, University of California, San Francisco, California

1986 – 1995	Committee on Group Practices, University of California, San Francisco, California
1986 – 1987	Pathology Chair Search Committee, University of California, San Francisco, California
1986 – 1995	Clinical Practice Organization (CPO), Executive Committee University of California, San Francisco, California
1986 – 1990	Cancer Committee, Medical Staff, University of California, San Francisco, California
1987 – 1999	Mission and Goals Committee, American Society Pediatric Neurosurgeons
1988 – 1995	Operating Room Committee, University of California, San Francisco, California
1989 – 1995	Advisory Committee, Pediatric Clinical Research Center University of California, San Francisco, California
1992	User Committee, University of California, San Francisco, California
1992 – 1995	Ad Hoc Peer Review Committee, University of California, San Francisco, California
1993 – 1995	Member, Board of Director, the Medical Group University of California, and San Francisco, California
1994 – 1995	Founding Member, UCSF Cancer Center, University of California, San Francisco, California
2004 – Present	Product Safety and Technology Committee, Lucile Packard Children’s Hospital @ Stanford University
2004 – Present	Faculty Practice Organization Operations Committee, Lucile Packard Children’s Hospital @ Stanford University
2004 – Present	Faculty Practice Organization Finance Committee, Lucile Packard Children’s Hospital @ Stanford University
2004 – Present	Contacts Sub-Committee, Lucile Packard Children’s Hospital @ Stanford University

2004 – Present	Board of Directors Committee, Lucile Packard Children’s Hospital @ Stanford University
2004 – Present	Critical Care Committee, Lucile Packard Children’s Hospital @Stanford University
2004 – Present	Operations Committee, Lucile Packard Children’s Hospital @ Stanford University
2004 – Present	O.R. Committee, Lucile Packard Children’s Hospital @ Stanford University
2005 – Present	Faculty Practice Organization Management Committee, Lucile Packard Children’s Hospital @ Stanford University
2005 – Present	Surgical Infection Committee, Lucile Packard Children’s Hospital @ Stanford University
2007 – Present	MD Cerner Advisory Team (MDCAT) Committee, Lucile Packard Children’s Hospital @Stanford University
2007 – Present	Neuropathology Physician Search Committee, Department of Neuropathology, Stanford University Medical Center
2007 – Present	Medical Director of Stanford Cancer Center Search Committee, Stanford University Medical Center
2007 – 2008	Chief of Pediatric Neurology Search Committee, Lucile Packard Children’s Hospital @ Stanford University
2008 – Present	Appointments & Promotions Committee, Department of Neurosurgery Stanford University Medical Center
2008 – Present	Care Delivery Oversight Team, Lucile Packard Children’s Hospital @ Stanford University
2008 – Present	Medical Executive Committee, Lucile Packard Children’s Hospital @ Stanford University
2008 – Present	Professional Practice Evaluation Committee, Lucile Packard Children’s Hospital @ Stanford University
2008 – Present	Patient Progression / Oversight Committee, Lucile Packard Children’s Hospital @ Stanford University

2008 – Present	Faculty Practice Organization (FPO) Contract Committee Lucile Packard Children’s Hospital @ Stanford University
Oct – Nov 2010	2010 LPCH Employee Giving Campaign Committee Lucile Packard Children’s Hospital @ Stanford University
2010 – 2011	Chair, Neurosurgery Faculty Search Committee, Stanford University Medical Center
Oct – Nov 2011	2011 LPCH Employee Giving Campaign Committee Lucile Packard Children’s Hospital @ Stanford University
2011 – Present	Advisory Board, Center of Quantitative and Personalized Neuroimaging Stanford University Medical Center
2011-Present	Neurology (Pediatric Epilepsy) Search Committee Lucile Packard Children’s Hospital @ Stanford University
2011-Present	Physicianship and Leadership Revision Working Group Stanford University Medical Center
December 2011	Chair, Pediatric Neurosurgery Faculty Search Committee Lucile Packard Children’s Hospital @ Stanford University
January 2012- December 2012	Surgical Specialties Professional Practice Evaluation Committee Lucile Packard Children’s Hospital @ Stanford University

Teaching Experience:

Stanford University Medical Center & Lucile Packard Children’s Hospital		
Course Number	Course Title	Date
STEMREM 296	Stem Cell Biology and Regenerative Medicine Brain Cancer: Childhood Medulloblastoma	2011 – Present
DBIO 296-01/PATH 296-1	Stem Cell Biology and Regenerative Medicine Brain Cancer: Childhood Medulloblastoma	2007 – Present
HUMBIO 154	Cancer Epidemiology	2007 – 2008

NSUR 199	Undergraduate Research	2008 – Present
NSUR 299	Directed Reading in Neurosurgery	2008 – Present

University of California, San Francisco

Course Number	Course Title	Hours / Date
110	Neurology and Neurosurgery Core Clerkship	21 hours
140.01	Advanced Neurosurgery	40 hours
400	Staff Conference / Grand Rounds	100 hours
403	Literature Review / Journal Club	10 hours
450	Clinical Neurological Surgery (5 days/week – continuous)	2,540 hours
	Brain Tumor Research Center Conference	1-2 hours/week
	Pediatric Ward Rounds and Lectures	100 hours
	Pediatric Grand Rounds	4 hours
	Pediatric Neurology Rounds	20 hours
	Pediatric Intensive Care Lectures (Management of ICP)	12 hours
	Pediatric Neurosurgery Fellowship Training (5 – 6 days/week – continuous)	2,540 hours

San Francisco General Hospital

Course Number	Course Title	Date
451	Clinical Neurological Surgery	

Veteran Administration Medical Center

Course Number	Course Title	Date
453	Clinical Neurosurgical Surgery	

Postdoctoral Pediatric Neurosurgery Fellows Supervised:

7/1/1985 – 12/21/1985	Mitchel S. Berger, MD Chair, Neurological Surgery University of California, San Francisco San Francisco, California
7/1/1985 – 7/1/1986	Roger J. Hudgins, MD Chief of Neurosciences and Craniofacial Surgery Chief of Neurosurgery, Children's Neurosurgery Program Chief, Division of Pediatric Neurosurgery, Emory University School of Medicine Surgical Director, the Children's Epilepsy Center Emory University Pediatrics Neurosurgery Associates Atlanta, Georgia
1/1/1987 – 7/1/1987	Corey Raffel, MD, Ph.D. Chief of Neurosurgery, Nationwide Children's Hospital Vice Chair, Department of Neurological Surgery, Ohio State University, College of Medicine Professor, Ohio State University, College of Medicine Nationwide Children's Hospital Columbus, Ohio
4/1/1987 – 10/1/1987	Anthony DiSclafani, MD Private Practice, Pediatric Neurosurgery Ocala Neurosurgical Center Ocala, Florida
1/1/1988 – 12/31/1988	Philip H. Cogen, MD, Ph.D. Chair, Department of Neurosurgery Children's National Medical Center Washington, D.C.

7/1/1990 – 6/30/1991	Anthony Martino, MD Associate Professor of Neurosurgery University of South Alabama Mobile, Alabama
7/1/1991 – 6/30/1992	James Baumgartner, MD Associate Professor of Neurosurgery and Pediatrics University of Texas Medical Center Memorial Hermann Texas Medical Center Houston, Texas
7/1/1992 – 6/30/1993	Samuel Ciricillo, MD Medical Director Sutter Neuroscience Institute Sacramento, California
2007 – 2008	Arnett Klugh, III, MD Staff Neurosurgeon, US Navy San Diego, California

Research Interest:Completed Grants:

Dates: 1977 – 1985
Agency: NINCDS
Role: Co - Investigator
Title: EC/IC bypass study.

Dates: 1978 – 1981, VA Merit Review 1981 – 1984
Agency: Veterans Administration
Role: Principal Investigator
Title: Electrophysiologic evaluation of peripheral nerve dysfunction by nerve trains analysis and integrated compound action potentials.

Dates: 1980 – 1981
Agency: UCSF Research Evaluation and Allocation Committee
Role: Principal Investigator
Title: The effect of laser surgery on neural tissues.

Dates: July 1981 – June 1984
Agency: National Institute of Health CA30571
Role: Co - Investigator
Title: Preclinical toxicology and pharmacology studies of intrathecal drugs.

Dates: August 1981 – May 1984
Agency: National Institute of Health CA29748-01
Role: Principal Investigator
Title: Radiation sensitizer neurotoxicity. Experimental and clinical.

Dates: 1981 - 1997
Agency: University of California, San Francisco
Role: Co - Investigator
Title: Fetal treatment program

Dates: April 1982 – March 1985
Agency: National Institute of Health CA13525-07
Role: Co - Investigator
Title: Program for treatment of malignant brain tumors.

Dates: October 1982 – December 1985
Agency: American Cancer Society
Role: Principal Investigator
Title: Laser – activated photosensitizers in the RIF – 1 tumor model.

Dates: July 1983 – June 1986
Agency: National Institute of Health CA09291
Role: Co - Investigator
Title: Training in brain tumor biology and therapy.

Dates: August 1986 – June 1992
Agency: National Institute of Health CA09291
Role: Co - Investigator
Title: Training in brain tumor biology and therapy.

Dates: November 1988 – November 1989
Agency: Morris Stulsaft Foundation
Role: Principal Investigator
Title: Molecular mechanisms of growth control and differentiation in primitive neuroectodermal tumors of childhood.

Dates: June 1990 – May 1994
Agency: National Institute of Health CA13525-07
Role: Co - Investigator
Title: Program for treatment of malignant brain tumors.

Dates: June 2002 - 2004
 Agency: Sutter Medical Center Foundation
 Role: Co-Investigator
 Title: Clinical outcomes of patients undergoing Gamma knife treatment for trigeminal neuralgia at the Sutter Neuroscience Institute.

Dates: January 9, 2007 – December 2009
 Agency: Pediatric Brain Tumor Foundation of the U.S.
 Role: Co – Principal Investigator
 Title: RFA – 0706 identification of medulloblastoma tumor stem cells using self – renewal pathways

Dates: July 1, 2007 – August 31, 2009
 Agency: Stanford Comprehensive Cancer Center
 Role: Co – Principal Investigator
 Title: Isolation of brain cancer stem cells using signaling pathways

Dates: October 1, 2009 – August 31, 2011
 Agency: NIH Grand Opportunity (GO) Grant: RFA – OD – 09 - 004
 Role: Co – Principal Investigator
 Title: A phase 1 study of EGFRV111 peptide vaccination (CDX – 110) after conventional radiation in children with diffuse intrinsic pontine gliomas.

Active Grants:

Dates: 2007 - 2012
 Agency: Price Charities
 Role: Principal Investigator
 Title: Center for children brain tumors at Lucile Packard Children’s Hospital

Dates: November 2007 – August 2012
 Agency: Kyle O’Connell Foundation
 Role: Principal Investigator
 Title: Molecular biology of dorsal and ventral brain stem tumors in children.

Dates: January, 12, 2009 – August 31, 2012
 Agency: The Chambers Family Foundation Grant Fund
 Role: Co – Principal Investigator
 Title: Center for children’s brain tumors at Lucile Packard Children’s Hospital.

Dates: July 2009 – June 2011
 Agency: National Brain Tumor Society
 Role: Co-Principal Investigator
 Title: Genome structures of mouse and human medulloblastoma

Dates: September 2010 – August 2011
 Agency: National Institutes of Health
 Role: Co – Investigator
 Title: In Vivo Cellular and Molecular Imaging Center (ICMIC) @ Stanford. Image – guided resection to improve outcome for children with medulloblastoma

Pending Grants:

Dates: Pending Funding
 Agency: Childhood Brain Tumor Foundation
 Role: Co – Principal Investigator
 Title: The hedgehog pathway in diffuse intrinsic pontine glioma (DIPG) – A new therapeutic target.

Dates: Pending Funding
 Agency: Childhood Brain Tumor Foundation
 Role: Co – Principal Investigator
 Title: A novel neural precursor cell population in the post – natal brainstem: identifying cell of origin for diffuse intrinsic pontine gliomas.

Dates: Pending Funding
 Agency: Hydrocephalus Association
 Role: Investigator
 Title: Anisotropic diffusion in the white matter of premature infants with and without intraventricular hemorrhage.

Dates: Pending Funding
 Agency: Department of Defense (DoD)
 Role: Co-Investigator
 Title: Cancer pathway discovery in mouse and human medulloblastomas
 Amount: \$1,158,692.00

Publications:

Peer Reviewed Articles

1. Kastin AJ, Beach GD, Hawley WD, Kendall JW, **Edwards MS**, and Schally AV. (1973) Dissociation of MSH and ACTH release in man. *Clin Endocrinol Metab.* April; 36(4):770-2, 1973.
2. **Edwards MS**, and Connolly ES. (1977) Cavernous sinus syndrome produced by communication between the external carotid artery and cavernous sinus. *J Neurosurg.* January; 46(1):92-6, 1977.

3. Crafts DC, Levin VA, **Edwards MS**, Pischer TL, and Wilson CB. (1978) Chemotherapy of recurrent medulloblastoma with combined procarbazine, CCNU and vincristine. *J Neurosurg.* October; 49(4):589-92, 1978.
4. Marton LJ, **Edwards MS**, Levin VA, Lubich WP, and Wilson CB. (1979) Predictive value of cerebrospinal fluid polyamines in medulloblastoma. *Cancer Res.* March; 39(3):993-7, 1979.
5. **Edwards MS**, Levin VA, Seager ML, Pischer TL, and Wilson CB. (1979) Phase II evaluation of thioTEPA for treatment of central nervous system tumors. *Cancer Treat Rep.* August; 63(8):1419-21, 1979.
6. Levin VA, **Edwards MS**, and Byrd A. (1979) Quantitative observations of the acute effects of X-irradiation on brain capillary permeability: Part I. *Int J Radiation Oncology Biol Phys.* September; 5(9):1627-31, 1979.
7. **Edwards MS**, Levin VA, and Byrd A. (1979) Quantitative observations of the sub acute effects of X-irradiation on brain capillary permeability: Part II. *Int J Radiat Oncology Biol Phys.* September; 5(9):1633-5, 1979.
8. **Edwards MS**, Levin VA, and Wilson CB. (1980) Brain tumor chemotherapy: An evaluation of agents in current use for phase II and III trials. *Cancer Treat Rep.* 64(12):1179-205, 1980.
9. **Edwards MS**, Levin VA, and Wilson CB. (1980) Chemotherapy of pediatric posterior fossa tumors. *Childs Brain.* 7(5):252-60, 1980.
10. Rosenblum ML, Hoff JT, Norman D, **Edwards MS**, and Berg BO. (1980) Nonoperative treatment of brain abscesses in selected high – risk patients. *J Neurosurg.* February; 52(2):217-25, 1980.
11. Levin VA, **Edwards MS**, Wright DC, Seager ML, Schimberg TP, Townsend JJ, and Wilson CB. (1980) Modified procarbazine, CCNU and vincristine (PCV 3) combination chemotherapy in the treatment of malignant brain tumors. *Cancer Treat Rep.* Feb-Mar; 64(2-3):237-44, 1980.
12. Gutin PH, Boehm J, Bank WO, **Edwards MS**, and Rosegay H. (1980) Cerebral convexity epidermoid tumor subsequent to multiple percutaneous subdural aspirations: Case report. *J Neurosurg.* April; 52(4):574-7, 1980.
13. **Edwards MS**, Chater NL, and Stanley JA. (1980) Reversal of chronic ocular ischemia by extracranial – intracranial arterial bypass: Case Report. *Neurosurgery.* November; 7(5):480-3, 1980.
14. **Edwards MS**, Levin VA, Seager ML, and Wilson CB. (1981) Intrathecal chemotherapy for leptomeningeal dissemination of medulloblastoma. *Childs Brain.* 8(6):444-51, 1981.
15. Marton LJ, **Edwards MS**, Levin VA, Lubich WP, and Wilson CB. (1981) CSF polyamines: A new and important means of monitoring patients with medulloblastoma. *Cancer.* February 15; 47(4):757-60, 1981.

16. Norman D, Axel L, Berninger WH, **Edwards MS**, Cann CE, Redington RW, and Cox L. (1981) Dynamic computed tomography of the brain: Techniques, data analysis and applications. *AJR Am J Roentgenol.* April; 136(4):759-70, 1981.
17. Fulton DS, Levin VA, Wara WM, **Edwards MS**, and Wilson CB. (1981) Chemotherapy of pediatric brainstem tumors. *J Neurosurg.* June; 54(6):721-5, 1981.
18. **Edwards MS**, Barbaro NM, Asher SW, and Murray WR. (1981) Delayed sciatic palsy after total hip replacement: Case report. *Neurosurgery.* July; 9(1):61-3, 1981.
19. Gooding GA, Boggan JE, Bank WO, Beglin B and **Edwards MS**. (1981) Sonography of the adult brain through surgical defects. *AJNR Am J Neruoradiol.* Sept-Oct; 2(5):449-52, 1981.
20. **Edwards MS**, Bolger CA, Levin VA, Phillips TL, and Jewett DL. (1982) Evaluation of misonidazole peripheral neurotoxicity in rats by analysis of nerve trains evoked response. *Int J Radiat Oncol Biol Phys.* January; 8(1):69-74, 1982.
21. Fulton DS, Levin VA, Gutin PH, **Edwards MS**, Seager ML, Stewart J and Wilson CB. (1982) Intrathecal cytosine arabinoside for the treatment of meningeal metastases from malignant brain tumors and systemic tumors. *Cancer Chemother Pharmacol.* 8(3):285-91, 1982.
22. Powers SK and **Edwards MS**. (1982) Prophylaxis of thromboembolism in the neurosurgical patient: A review. *Neurosurgery.* April; 10(4):50-13, 1982.
23. Berger MS, **Edwards MS**, and Bingham WG. (1982) Hypoglossal neurilemmoma: Case report and review of the literature. *Neurosurgery.* May; 10(5):617-20, 1982.
24. Powers SK, Bolger CA, and **Edwards MS**. (1982) Spinal cord pathways mediating somatosensory evoked potentials. *J Neurosurgery.* October; 57(4):472-82, 1982.
25. Boggan JE, **Edwards MS**, Davis RL, Bolger CA, and Martin N. (1982) Comparison of the brain tissue response in rats to injury by argon and carbon dioxide lasers. *Neurosurgery.* November; 11(5):609-16, 1982.
26. Harrison MR, Filly RA, Golbus MS, Berkowitz RL, Callen PW, Canty TG, Catz C, Clewell WH, Depp R, **Edwards MS**, Fletcher JC, Frigoletto FD, Garrett WJ, Johnson ML, Jonsen A, De Lorimier AA, Liley WA, Mahoney MJ, Manning FD, Meier PR, Michejda M, Nakayama DK, Nelson L, Newkirk JB, Pringle K, Rodeck C, Rosen MA, and Schulman JD. (1982) Fetal treatment 1982. *N Engl J Med.* December 23; 307(26):1651-2, 1982.
27. **Edwards MS**, Powers SK, Baringer RA, Jewett DL, Bolger C and Phillips TL. (1983) Evoked potentials in rats with misonidazole neurotoxicity. I. Brainstem auditory evoked potentials. *J Neurooncol.* 1(2):115-23, 1983.

28. Powers SK, **Edwards MS**, and Varinger RA. (1983) Evoked potentials in rats with misonidazole neurotoxicity. II. Somatosensory evoked potentials. *J Neurooncol.* 1(2):125-30, 1983.
29. **Edwards MS**, Levin VA, and Wilson CB. (1983) Chemotherapy of recurrent pediatric posterior fossa tumors. *Clin Neurosurg.* 30:209-25.
30. **Edwards MS**, Bolger CA, and Jewett DL. (1983) Diagnosis of acute nerve compression in the cat with high frequency nerve trains evoked responses. *Neurosurgery.* January; 12(1):1-6, 1983.
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11. Akins PT, Bobolis K, Ciricillo S and **Edwards MS** (2003) Letter to Archives of Neurology POEMS/Stroke article by Dr. Kang et al. May 27, 2003.

Books Edited

1. **Edwards MS** and Hoffman HJ (Eds.) (1989) *Cerebral Vascular Disease in Children and Adolescents*, Current Neurosurgical Practice Series, vol 2, p. 480
2. MG Hayden (2010) *Pocket Neurologica*. Steinberg GK, **Edwards MS** ad Hayden MG (Eds.) Tarascon Publishing Company Boston, MA
3. **MS Edwards**. Ventriculoperitoneal Shunt (2011) Berta SC and Levy ML (Eds.) *Neurosurgery Tricks of the Trade*. Thieme, New York (*in press*).
4. **MS Edwards** (2011) Tethered Cord Release. Berta SC and Levy ML (Eds.) *Neurosurgery Tricks of the Trade*. Thieme, New York (*in press*).

Book Reviews

1. Hudgins RJ and **Edwards MS** (1987) Review of: *Concepts in Pediatric Neurosurgery*7. In AE Marlin (Ed.), Basel Basel/München/paris: Karger. *J Neurosurg* 67:468

Publications

In Press

1. Haas-Kogan DA, Hayden MG, Fisher PG and **Edwards MS** (2010) Pediatric central nervous system tumors. *Leibels and Phillips Textbook of Radiation Oncology, 3rd Edition*. Elsevier. Philadelphia, PA (*in press*)

In Preparation

1. Hayden MG, Paulk K, Vogel H, Guzman R, and **Edwards MS** (2011) The spectrum of pediatric skull tumors.

Submitted Abstracts/Articles

2. Darsaut TE, Guzman R, Marcellus ML, **Edwards MS**, Tian L, Do HM, Chang SD, Levy RP, Adler JR, Marks MP and Steinberg GK (2011) Management of pediatric intracranial arteriovenous malformations: experience with multimodality therapy. *Neurosurgery* 2011 Sep;69(3):540-56 (in press)

Invited Symposia and WorkshopsLocal /National

1. "Treatment and Management of Cancer of the Spine." 3rd Annual Scripps Memorial Hospital Cancer Symposium. October 31-November 2, 1979; San Diego, California
2. "Peripheral Nerve Repair" (1981) (Special Interest Workshop) 31st Annual Meeting Congress of Neurological Surgeons October 20, 1981; Los Angeles, California
3. "Correction of Congenital Hydrocephalus in Utero" (1982) International Workshop in Hydrocephalus November 11-14, 1982; Napa, California
4. "Argon versus Carbon Dioxide Laser in Brain Surgery" (1983) 4th International Workshop Neurological Surgery of the Ear and Skull Base February 19, 1983; Saratoga, Florida
5. "Malignant Brain Tumors in Children." (1984) Symposium on Contemporary Neurosurgery November 17, 1984; Amelia Island, Florida
6. "Prenatal Neurosurgery." (1984) Symposium on Contemporary Neurosurgery November 17, 1984; Amelia Island, Florida
7. "Lipomeningoceles." (1984) Symposium on Contemporary Neurosurgery November 17, 1984; Amelia Island, Florida
8. "Neuro-Oncology and Radiation Therapy." (1989) 75 Years of Caring for Children. University of California, San Francisco, February 26, 1989; San Francisco, California

9. "Surgery of Pineal and Parapineal Masses." (1990) *International Symposium on Pediatric Neuro-Oncology, the Children's Hospital of Philadelphia* May 24, 1990; Philadelphia, Pennsylvania
10. "Treatment of Refractory Gliomas." (1990) Workshop on pediatric malignancies cancer in the nervous system. *34th Annual Clinical Conference and 23rd Annual Special Pathology Program*. MD Anderson Cancer Center, November 3-6, 1990; Houston, Texas
11. "Current Concepts of Brain Tumors in Children." (1991) *A Symposium on Clinical Problems in Child Neurology* October 18, 1991; San Francisco, California
12. Symposium Chairman (1992) *A Resource Conference on Neurofibromatosis 1 & 2* October 18, 1992; San Francisco, California
13. Panel Moderator (1993) "Craniopharyngioma: The Answer." *New York University Medical Center* December 18, 1993; New York, New York
14. "New Treatment Methods in Pediatric Tumors." (1994) *Annual Meeting of the American Association of Neurological Surgeons* April 14, 1994; Dan Diego, California
15. "Surgical Management of High Grade Gliomas in Children." (1994) *International Symposium on Pediatric Neuro-Oncology*, MD Anderson Cancer Center, May 20, 1994; Houston, Texas
16. "Consultants Corner." (1995) *45th Annual Meeting Congress of Neurological Surgeons – Pediatrics* October 17, 1995; San Francisco, California
17. "Brainstem Tumors of Childhood: Have We Made Progress?" (1995) *New York University Medical Center* December 15-17, 1995; New York, New York
18. "Initial Diagnosis and Treatment of Hydrocephalus in Infants and Children" (1996) *Hydrocephalus Association* January 13, 1996; Monterey, California
19. "Seizures and Hydrocephalus" (1996) *Hydrocephalus Association* January 13, 1996; Monterey, California
20. "Managed Care or 'Mangled Care'...Getting Access and Maintaining Quality Care in a n Environment" (1996) *Hydrocephalus Association* January 14, 1996; Monterey, California
21. "Peripheral and Central Nervous System Tumors in Neurofibromatosis" (1996) *Neurofibromatosis Sacramento Valley Regional Committee* April 27, 1996; Sacramento, California
22. "Concepts and Strategies for Infant Brain Tumors" (1997) *The Preuss Foundation for Brain Tumor Seminar. Sponsored by the Alan Paller Family of Bethesda, Maryland Salk Institute* March 5-7, 1997; La Jolla, California

23. "Advancement and Management of Infant Brain Tumors" (1997) A Practical Approach to the Child with a Hematologic Oncologic Disorder. Sponsored by *Children's Hospital Oakland* September 27, 1997; Reno, Nevada
24. 5th *International Stereotactic Radiosurgery Society Congress* (2001) June 10-13, 2001; Las Vegas, Nevada
25. *American Academy of Neurological Surgeons Annual Meeting* (2002) October 16-18, 2002; Scottsdale, Arizona
26. *AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting* (2002) December 4-7, 2002; Scottsdale, Arizona
27. *CANS Board of Directors Meeting* (2003) May 10, 2003; Los Angeles, California
28. "Pediatric Brain Tumor" Caregiver Workshop (2004) *The National Brain Tumor Foundation Sutter Cancer Center* May 8, 2004; Sacramento, California
29. *CANS Board of Directors Meeting* (2004) May 15, 2004; Los Angeles, California
30. *Congress of Neurological Surgeons 54th Annual Meeting* (2004) October 16-21, 2004; San Francisco, California
31. *AANS/CNC Section on Pediatric Neurological Surgery Annual Meeting* (2004) December 8-11, 2004; San Francisco, California
32. *CANS Board of Directors Meeting* (2005) January 21-23, 2005; San Jose, California
33. *AANS 2005 Annual Meeting* (2005) April 16-21, 2005; New Orleans, Louisiana
34. *Asilomar Neuroscience Conference* (2005) May 8, 2005; Asilomar, California
35. *CANS Board of Directors Meeting* (2005) September 17, 2005; Lake Tahoe, California
36. *The Western Neurosurgical Society 51st Annual Meeting* (2005) September 17-20, 2005; Lake Tahoe, California
37. *The American Academy of Neurological Surgery 67th Annual Meeting* (2005) September 21-25, 2005; Half Moon Bay, California
38. *CANS Board Meeting* (2006) January 13-15, 2006; San Diego, California
39. *2006 AANS Annual Meeting* (2006) April 22-27, 2006; San Francisco, California
40. *Neurosurgical Society of America Annual Meeting* (2006) June 3-7, 2006; Ojai, California

41. *52nd Annual Western Neurosurgical Society Annual Meeting* (2006) Semiahmoo Resort & Spa September 16-19, 2006; Blaine, Washington
42. *11th Annual Society for Neuro-Oncology Annual Meeting* (2006) Peabody Resort November 16-19, 2006; Orlando, Florida
43. *The Children's Oncology Group Annual Meeting* (2006) The Westin Hotel October 5-6, 2006; Los Angeles, California
44. *CANS Annual Meeting* (2007) Hyatt Regency Hotel January 12-14, 2007; Sacramento, California
45. *The Society of Neurological Surgeons Annual Meeting* (2007) May 6-8, 2007; San Francisco, California
46. *CAN 2007 Annual Meeting* (2007) September 15-20, 2007; San Diego, California
47. *AANS 2007 Annual Meeting* (2007) Ritz Carlton October 31-November 3, 2007; Las Vegas, Nevada
48. *12th Annual Society for Neuro-Oncology Meeting* (2007) Gaylord Texan Resort, November 15-18, 2007; Dallas, Texas
49. Co-Director *The Preuss Foundation Seminar on "Stem Cell Biology"* (2007) The Lodge at Torrey Pines November 7-9, 2007; La Jolla, California
50. *CANS Annual Meeting* (2008) Disney's Grand California Hotel & Spa January 18-20, 2008; Anaheim, California
51. *The Society of Neurological Surgeons 2008 Annual Meeting* (2008) University of Wisconsin May 17-20, 2008; Madison, Wisconsin
52. *13th Annual International Symposium on Pediatric Neuro-Oncology Meeting* (2008) Chicago Marriott Magnificent Mile June 29-July 2, 2008; Chicago, Illinois
53. *70th Annual AANS Meeting* (2008) Ritz Carlton, Phoenix & Enchantment Resort September 9-14, 2008; Sedona, Arizona
54. *13th Annual Society for Neuro-Oncology Annual Meeting –Scientific & Education Day* (2008) Loews Lake Las Vegas Resort November 20-23, 2008; Las Vegas, Nevada
55. *2nd Annual SUMC Summit for Clinical Excellence* (2008) Arrillaga Alumni Center, Stanford University December 2, 2008; Stanford, California
56. *37th Annual AANS/CNS Section of Pediatric Neurological Surgery Meeting* (2008) The Davenport Hotel December 2-5, 2008; Spokane, Washington

57. *2009 ASPN Annual Meeting* (2009) Fairmont Orchid Hotel January 25-30, 2009 Kohala Coast, Hawaii
58. *2009 AANS Annual Meeting* (2009) May 2-6, 2009; San Diego, California
59. *2009 Society of Neurological Surgeons Annual Meeting* (2009) the Grand American Hotel May 16-19, 2009; Salt Lake City, Utah
60. *Joint Meeting of the Society for Neuro-Oncology and the AANS/CNS Section on Tumors* (2009) The Hilton New Orleans Riverside Hotel October 22-24, 2009; New Orleans, Louisiana
61. *71st Annual Meeting of the American Academy of Neurological Surgery* (2009) the Breakers Hotel and Resort November 5-7, 2009; Palm Beach, Florida
62. *2010 NSA Annual Meeting* (2010) Carmel, California April 12-14, 2010
63. *56th Annual Meeting of the Western Neurological Society* (2010) El dorado Hotel October 9-11, 2010; Santa Fe, New Mexico
64. *2010 Congress of Neurological Surgeons Annual Meeting* (2010) October 16-21, 2010; San Francisco, California
65. *72nd Annual Meeting of the American Academy of Neurological Surgery* (2010) Inn at Spanish Bay November 3-6, 2010; Pebble Beach, California
66. *39th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery* (2010) Renaissance Hotel November 30 – December 3, 2010; Cleveland, Ohio
67. *Dillabough Salon Event* (2011) The Future of pediatric Neurosurgery and Neurosciences at LPCH. February 8, 2011; Atherton, California
68. *34th Annual Meeting of the American Society of Pediatric Neurosurgeons* (2011) Four Seasons, January 30 – February 4, 2011; Lana'i, Hawaii
69. *The Preuss Foundation Seminar* (2011) Glioma Biology: Recent Advances at the Edge of Discovery. March 9 – 11, 2011; La Jolla, California
70. *2011 AANS Annual Scientific Meeting* (2011) April 9-13, 2011; Colorado Convention Center, Denver Colorado
71. *"Hospital Finance Basics" Module* (2011) May 26, 2011; Arrillaga Alumni Center, Stanford University, Palo Alto, California
72. *57th Annual Meeting of the Western Neurological Society* (2011) September 9-13, 2011 Kauai, Hawaii

Invited Symposia and Workshops

International

1. "Laser Workshop" (1982) *32nd Annual Meeting of the Congress of Neurological Surgeons* October 3-8, 1982; Toronto, Canada
2. "The Use of Interstitial Brach Therapy for the Treatment of Tumors in Children" (1985) *International Symposium on Pediatric Neuro-Oncology (ISPNO)* November 6-8, 1985; Toba, Japan
3. "Decreased Radiation Therapy for Childhood Medulloblastoma" (1985) *International Symposium on Pediatric Neuro-Oncology (ISPNO)* November 6-8, 1985; Toba, Japan
4. "The Use of Hyperfractionation for the Treatment of Brainstem Gliomas" (1985) *International Symposium on Pediatric Neuro-Oncology (ISPNO)* November 6-8, 1985; Toba, Japan
5. "Approach to and Management of Pineal Tumors" (1985) *International Symposium on Pediatric Neuro-Oncology (ISPNO)* November 6-8, 1985; Toba, Japan
6. "The Future of Intrauterine Surgery" (1990) *1st International Symposium on New Horizons in Pediatric Neurosurgery/Neurology* June 26-27, 1990; Tel Aviv, Israel
7. "Pineal Region Tumors: Surgical Indications" (1990) *1st International Symposium on New Horizons in Pediatric Neurosurgery/Neurology* June 26-27, 1990; Tel Aviv, Israel
8. "Modern Management of Pineal Region Tumors in Children" (1991) *4th International Symposium on Pediatric Neuro-Oncology* November 14-16, 1991; Tokyo, Japan
9. "Treatment of Children with Craniopharyngioma: The UCSF Experience" (1991) *4th International Symposium on Pediatric Neuro-Oncology* November 14-16, 1991; Tokyo, Japan
10. *11th International Leksell Gamma Knife Society Meeting* (2002) May 12-16, 2002; Prague, Czech Republic
11. *48th Annual Western Neurosurgical Society Meeting* (2002) October 12-15, 2002; Victoria, British Columbia, Canada

Invited Lectures

Local/National

1. "Treatment of Medulloblastoma" (1978) March 13-16, 1978; San Francisco, California

2. "The Role of Radiosensitizers in the Treatment of Malignant Brain Tumors" (1978) *Veterans Administration Hospital* October 26, 1978; Fresno, California
3. "Preliminary Observations of the Effects of X-irradiation on Capillary Permeability Combined Modalities: Chemotherapy/Radiotherapy" (1978) November 16, 19*78; Hilton Head Island, South Carolina
4. "Current Treatment of pediatric Brain Tumors" (1979) *Pediatric Grand Rounds, University of California, San Francisco* March 1, 1979; San Francisco, California
5. "Treatment of Medulloblastomas" (1979) *Uniformed Services Pediatric Meeting* March 15-16, 1979; San Francisco, California
6. "Peripheral Nerve Injury" (1979) *American Association of Neurological Surgeons* April 22-26, 1979; Los Angeles, California
7. "Treatment of Medulloblastoma" (1979) *American Association of Neurological Surgeons* April 22-26, 1979; Los Angeles, California
8. "Treatment of Metastatic Disease to the Spine" (1979) *San Francisco Neurological Society* April 27-29, 1979; Yosemite, California
9. "Classification of pediatric Brain Tumors" (1979) 3rd *Annual Neurosurgical Nurse's Conference* May 31-June 1, 1979; San Francisco, California
10. "Chemotherapy of Pediatric Posterior Fossa Tumors" (1979) 9th *Annual Neurosurgery Postgraduate Course* May 31-June 1, 1979; San Francisco, California
11. "Intracranial/Intracranial Arterial Bypass" (1979) *Medical Grand Rounds University of California, San Francisco* October 3, 1979; San Francisco, California
12. "Treatment of Syrinx (Neoplastic and Traumatic)" (1979) *New Advances and Controversies in Neuroradiology* October 18-20, 1979; San Francisco, California
13. "Treatment of Carotid-Cavernous Fistula" (1979) *Neurology Grand Rounds University of California, San Francisco* November 2, 1979; San Francisco, California
14. "Microvascular Bypass for Ocular Ischemia" (1979) *Neurosurgery grand Rounds University of California, San Francisco* November 8, 1979; San Francisco, California
15. "Cutis Aplasia" (1979) *Neurosurgery grand Rounds University of California, San Francisco* December 20, 1979; San Francisco, California
16. "Metastatic Cancer and the Spinal Cord" (1980) *California Medical Association Annual Scientific Assembly* February 10, 1980; San Diego, California

17. "Evoked Potentials in Rat Peripheral Nerve Radiosensitizer/Radioprotector" (1980) *National Institute of Health Working Group Meeting* March 6, 1980; Bethesda, Maryland
18. "Cerebral Metastatic Disease" (1980) *VAMCSF Oncology Rounds University of California, San Francisco* March 13, 1980; San Francisco, California
19. "Extracranial Carotid Artery Aneurysms" (1980) *Neurosurgery Grand Rounds University of California, San Francisco* March 13, 1980; San Francisco, California
20. "Treatment of Radiation Necrosis" (1980) *Neurosurgery Grand Rounds University of California, San Francisco* April 3, 1980; San Francisco, California
21. "Brain Metastases" (1980) *Neurosurgery Grand Rounds University of California, San Francisco* May 1, 1980; San Francisco, California
22. "Facial Nerve Repair Techniques" (1980) *Neurosurgery Grand Rounds University of California, San Francisco* May 29, 1980; San Francisco, California
23. "Peripheral Nerve Injury and Repair: An Update" (1980) *10th Annual Neurosurgery Postgraduate Course; University of California, San Francisco* June 5, 1980; San Francisco, California
24. "Medical and Operative Management of Aneurysms" (1980) *4th Annual Neurosurgical Nurses Conference, University of California, San Francisco* June 6, 1980; San Francisco, California
25. "Treatment of Brachial Plexus Injuries" (1980) *Plastic Surgery Grand Rounds University of California, San Francisco* August 23, 1980; San Francisco, California
26. "Management of metastatic Disease to the Spine" (1980) *Medical Grand Rounds VA Medical Center* September 2, 1980; San Francisco, California
27. "Treatment of Metastatic Disease to the Spine" (1980) *VA Medical Center* September 15, 1980; Reno, Nevada
28. "Evaluation and Management of Pediatric Posterior Fossa Tumors" (1980) *Pediatric Neurology Grand Rounds University of California, San Francisco* December 3, 1980; San Francisco, California
29. "Intrathecal Chemotherapy for Disseminated Medulloblastoma (1980) *9th Annual Interim Meeting of the American Association of Neurological Surgeons: Pediatric Section* December 5, 1980; New York, New York.
30. "Spinal Cord Problems in the Child" (1981) *pediatric Grand Rounds San Francisco General Hospital* February 17, 1981; San Francisco, California

31. "New Methods of Tissue Dissection" (1981) *American Association of Neurological Surgeons: Breakfast Seminar* April 6, 1981; Boston Massachusetts
32. "EC/IC Bypass: Update" (1981) *Neurology Grand Rounds, University of California, San Francisco* April 23, 1981; San Francisco, California
33. "Evaluation and Treatment of Brachial Plexus Injury" (1981) *Neurosurgery Grand Rounds, Stanford University* May 15, 1981; Stanford, California
34. "Surgical management of the Arnold-Chiari Malformation" (1981) *11th Annual Neurosurgery Postgraduate Course* May 22, 1981; San Francisco, California
35. "Brachial Plexus Injury" (1981) *11th Annual Neurosurgery Postgraduate Course* May 22, 1981; San Francisco, California
36. "The Use of the Laser for Microneurosurgery" (1981) *Tulane University Medical Center* June 11, 1981; New Orleans, Louisiana
37. "Surgical Management of Meningomyelocele" (1981) *Pediatric Grand Rounds, University of California, San Francisco* August 20, 1981; San Francisco, California
38. "Diagnosis and Treatment of Syringomyelia" (1981) *Neurology Conference, Veterans Administration Medical Center* September 8, 1981; Reno, Nevada
39. "Misonidazole Neurotoxicity" (1981) *Conference on Clinical Modification Radiation and Cytotoxic Drugs* September 19, 1981; Key Biscayne, Florida
40. "Argon Laser in Experimental Tumors" (1981) *1st American Congress on Laser Neurosurgery, Northwestern University, School of Medicine* October 2, 1981; Chicago, Illinois
41. "Acute and Chronic Argon Lesions in CNS" (1981) *1st American Congress on Laser Neurosurgery, Northwestern University, School of Medicine* October 2, 1981; Chicago, Illinois
42. "Management of Distal Shunt Malfunctions" (1981) *American College of Surgeons Clinical Congress* October 12, 1981; San Francisco, California
43. "Surgery of Peripheral Nerves" (1981) *31st Annual Meeting Congress of Neurological Surgeons* October 21, 1981; Los Angeles, California
44. "Laser Microneurosurgery" (1981) *Oschner Foundation Medical Center* November 5, 1981; New Orleans, Louisiana
45. "Pediatric Brainstem Tumors: Radiologic, Pathologic and Clinical Correlation" (1981) *10th Annual Meeting American Association of Neurological Surgeons, Pediatric Section* December 4, 1981; Dallas, Texas

46. "Neuroradiology of the Arnold-Chiari Malformation" (1981) *10th Annual Meeting American Association of Neurological Surgeons, Pediatric Section* December 5, 1981; Dallas, Texas
47. "Management of Pediatric Head Trauma and ICP" (1981) *Pediatric Grand Rounds, Mt. Zion Hospital* December 21, 1981; San Francisco, California
48. "Pediatric Posterior Fossa Tumors" (1982) *Pediatric Grand Rounds, San Francisco General Hospital* January 5, 1982; San Francisco, California
49. "Management of Pediatric Head Trauma" (1982) *pediatric Grand Rounds, Marin General Hospital* January 15, 1982; Marin, California
50. "The Use of Lasers for Microneurosurgery" (1982) *San Francisco Neurological Society, Oak Knoll Naval Hospital* January 19, 1982; Oakland, California
51. "Argon Laser Microneurosurgery" (1982) *8th Annual Richard Lende Winter Neurosurgery Conference* January 30, 1982; Salt Lake City, Utah
52. "Views on Current Treatment of Pediatric Brain Tumors" (1982) *Advances In Pediatrics* April 22-24, 1982; San Francisco, California
53. "New Methods of Tissue Dissection" (1982) *51st Annual Meeting American Association of Neurological Surgeons* April 27, 1982; Honolulu, Hawaii
54. "Current Therapy of Malignant Gliomas" (1982) *University of Nevada* May 10, 1982; Reno, Nevada
55. "Management of Metastatic Disease to the Spine" (1982) *Department of Internal Medicine, Peninsula Hospital* May 11, 1982; Burlingame, California
56. "Laser Applications in Medicine" (1982) *Fresno VAMC* May 25, 1982; Fresno, California
57. "Surgical Indications and Approaches to Spinal Metastatic Disease" (1982) *12th Annual Neurosurgery Postgraduate Course, University of California, San Francisco* June 3-4, 1982; San Francisco, California
58. "Laser Microneurosurgery" (1982) *12th Annual Neurosurgery Postgraduate Course, University of California, San Francisco* June 3-4, 1982; San Francisco, California
59. "Argon Laser Microneurosurgery" (1982) *Gordon Conference on Lasers in Medicine* June 28-July 2, 1982; Plymouth, New Hampshire
60. "Unborn: management of the Fetus with a Correctable Congenital Defect" (1982) *Kroc Foundation and Conference* July 19-23, 1982; Santa Ynez, California
61. "Surgical Lasers in Neurosurgery" (1982) *87th Annual Convention and Scientific Assembly of the National Medical Association* July 29, 1982; San Francisco, California

62. "The Argon Laser for Pediatric Microneurosurgery" (1982) *10th Annual Meeting International Society for Pediatric Neurosurgery* September 12 -15, 1982; Philadelphia, Pennsylvania
63. "Considerations in the Management of the Fetus with Ventriculomegaly" (1982) *10th Annual Meeting International Society for Pediatric Neurosurgery* September 12 -15, 1982; Philadelphia, Pennsylvania
64. "Argon Laser Applications for Pediatric Neurosurgery" (1982) *10th Annual Meeting International Society for Pediatric Neurosurgery* September 12 -15, 1982; Philadelphia, Pennsylvania
65. "Argon Laser Applications for Intracranial and Spinal Surgery" (1982) *Northwestern University Congress of Laser Neurosurgery II* September 23-25, 1982; Chicago, Illinois
66. "The Use of Lasers for Neurological Surgery" (1982) *Dominican Neurological Institute* October 15, 1982; Santa Cruz, California
67. "Management of Pediatric Brain Tumors" (1982) *Neurological Institute* October 15, 1982; Santa Cruz, California
68. "Pediatric Supratentorial Glioma: Survival and Response to Chemotherapy" (1982) *12th Annual Meeting American Association of Neurological Surgeons, Pediatric Section* December 8-10, 1982; San Francisco, California
69. "Outcome from Pediatric Severe Head Injury" (1982) *12th Annual Meeting American Association of Neurological Surgeons, Pediatric Section* December 8-10, 1982; San Francisco, California
70. "the Use of Lasers for Microsurgery" (1983) *Grand Rounds, Department of Ophthalmology, University of California, San Francisco* January 13, 1983; San Francisco, California
71. "A Model of *In Utero* Hydrocephalus in Fetal Lambs and Rhesus Monkeys" (1983) *9th Annual Richard Lende Winter Meeting* January 30, 1983; Salt Lake City, Utah
72. "A Model of *In Utero* Hydrocephalus in Fetal Lambs and Rhesus Monkeys" (1983) *Research Society of Neurological Surgeons* February 8, 1983; San Diego, California
73. "Management of Arteriovenous Malformations in Childhood" (1983) *Washoe Medical Center Neurology Conference* March 7, 1983; Reno, Nevada
74. "Treatment of Congenital Hydrocephalus *In Utero*: Development of the Fetal Lamb Model and Early Results with Ventriculo-Amniotic Shunting" (1983) *52nd Meeting of the American Association of Neurological Surgeons* April 27, 1983; Washington, DC
75. "The Use of Lasers in Neurosurgery" (1983) *52nd Meeting of the American Association of Neurological Surgeons* April 28, 1983; Washington, DC

76. "Current Perspectives in Hydrocephaly" (1983) *Golden West College. March of Dimes Sponsor* May 7, 1983; Huntington Beach, California
77. "A Model of Congenital Hydrocephalus *In Utero* in Fetal Lambs and Rhesus Monkeys produced by the Intracisternal Injection of Kaolin" (1983) *36th annual Meeting of the Neurosurgical Society of America* May 10, 1983; Key West, Florida
78. "The Laser in Medical Therapy – A General Review and Special Application in Neurosurgery" (1983) *St. Joseph's Hospital* May 31, 1983; Stockton, California
79. "The Use of Lasers in Neurosurgery: Animal Research and Human Experience" (1983) *O'Connor Hospital* June 18, 1983; San Jose, California
80. "Management of Occult Spinal Dysraphism" (1983) *Pediatric Grand Rounds, University of California, San Francisco* August 11, 1983; San Francisco, California
81. "Management of AVMs in Pediatric Patients" (1983) *Annual Meeting of the Western Neurosurgical Society* September 4, 1983; San Diego, California
82. "*In Utero* Hydrocephalus" (1983) *Oregon Health Sciences University* September 22, 1983; Portland, Oregon
83. "Pediatric Brain Tumors" (1983) *Oregon Neurosurgical Society* September 22, 1983; Portland, Oregon
84. "Lasers in Neurosurgery" (1983) *Oregon Neurosurgical Society* September 23, 1983; Portland, Oregon
85. "Comparison of Argon and CO₂ for Neurosurgery" (1983) *5th International Congress of Laser Medicine and Surgery* October 8, 1983; Detroit, Michigan
86. "Applications of Lasers to Neurosurgical Problems in Children" (1983) *5th International Congress of Laser Medicine and Surgery* October 10, 1983; Detroit, Michigan
87. "New Surgical and Brachytherapeutic Approaches to Pediatric Brain Tumor Therapy" (1983) *5th Brain Tumor Research and Therapy Conference* October 26, 1983; Monterey, California
88. "Nuclear Magnetic Resonance Imaging in Children" (1983) *33rd Annual Meeting Congress of Neurological Surgeons* November 1, 1983; Chicago, Illinois
89. "Management of Pediatric Head Trauma" (1983) *Pediatric Rounds, Mt. Zion Hospital* November 10, 1983; San Francisco, California
90. "Craniosynostosis" (1983) *Pediatric Rounds, University of California, San Francisco* November 10, 1983; San Francisco, California

91. "Neurosurgery" (1983) *Comprehensive Laser Center, Palo Alto Medical Foundation* November 12, 1983; Palo Alto, California
92. "Evaluation and Installation of Current Surgical Laser Systems: A Comprehensive Overview" (1983) *Comprehensive Laser Center, Palo Alto Medical Foundation* November 12, 1983; Palo Alto, California
93. "Evaluation and Treatment of Craniofacial Disorders" (1984) *Pediatric Grand Rounds, Letterman Army Medical Center* January 6, 1984; San Francisco, California
94. "Preliminary Experience with ¹²⁵I Brachytherapy in Children" (1984) *American Society of Pediatric Neurosurgery* January 21-28, 1984; Kona, Hawaii
95. "Neurosurgery" (1984) *Comprehensive Laser Center, Palo Alto Medical Foundation* March 17, 1984; Palo Alto, California
96. "Evaluation and Installation of Current Surgical Laser Systems: A Comprehensive Overview" (1984) *Comprehensive Laser Center, Palo Alto Medical Foundation* March 17, 1984; Palo Alto, California
97. "Selecting a Laser-Argon, YAG, CO₂, or Wait" (1984) *53rd Annual Meeting of the American Association of Neurological Surgeons* April 10, 1984; San Francisco, California
98. "The Neurosurgeon and the Newborn" (1984) *53rd Annual Meeting of the American Association of Neurological Surgeons* April 11, 1984; San Francisco, California
99. "Management of Vascular Malformations of Childhood" (1984) *Annual Meeting of the American College of Surgeons: Northern California Chapter* May 5, 1984; San Francisco, California
100. "Outcome of Ventriculomegaly Diagnosed *In Utero*" (1984) *37th Annual Meeting of the Neurological Society of America* May 16, 1984; Coronado, California
101. "Management of Pediatric Head Trauma (1984) *Mt. Zion Hospital* August 27, 1984; San Francisco, California
102. "Preliminary Experience with ¹²⁵Iodine Brachytherapy in Children" (1984) *13th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section* December 12, 1984; Salt Lake City, Utah
103. "Intracranial Arachnoid Cysts in Children" (1984) *13th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section* December 13, 1984; Salt Lake City, Utah
104. "Myelodysplasia: 1985" (1985) *Pediatric Grand Rounds, University of California, San Francisco* March 14, 1985; San Francisco, California

105. "Interstitial Brachytherapy for Pediatric Brain Tumors" (1985) *Pediatric Post Graduate Course: Advances in Pediatrics* March 15, 1985; San Francisco, California
106. "Pediatric Brain Tumors" (1985) *Pediatric Grand Rounds, University of California, San Francisco / San Francisco General Hospital* April 9, 1985; San Francisco, California
107. "Management Myelodysplasia: 1985" (1985) *Stanford Spina bifida Support Group at Stanford Children's Hospital* April 9, 1985; Stanford, California
108. "Results of *In Utero* Shunting for Hydrocephalus in Fetal Lambs" (1985) *54th Annual Meeting of the American Association of Neurological Surgeons* April 21-25, 1985; Atlanta, Georgia
109. "Vascular Malformations in Children and Adolescents: Are they Different from Adults?" (1985) *14th Annual Neurosurgery Postgraduate Course, University of California, San Francisco* May 30, 1985; San Francisco, California
110. "Evaluation and Surgical Techniques for Occult Spinal Dysraphism" (1985) *14th Annual Neurosurgery Postgraduate Course, University of California, San Francisco* May 31, 1985; San Francisco, California
111. "Primary Cerebral Neuroblastoma" (1985) *National Conference on Pediatric Brain Tumors, University of Minnesota* August 22, 1985; Minneapolis, Minnesota
112. "The Use of Autogenous Skull Bone Grafts to Reconstruct Large and/or Complex Skull Defects in Children and Adolescents" (1985) *31st Annual Meeting of the Western Neurological Society*, September 24, 1985, Napa, California
113. "Does Biopsy Alter the Outcome in Brainstem Glioma?" (1985) *35th Annual Meeting of the Congress of Neurological Surgeons* October 1-4, 1985, Honolulu, Hawaii
114. "Management of Supratentorial Hemispheric Tumors in Children." (1985) *35th Annual Meeting of the Congress of Neurological Surgeons* October 1-4, 1985, Honolulu, Hawaii
115. "The Role of Prenatal Neurosurgery." (1985) *35th Annual Meeting of the Congress of Neurological Surgeons* October 1-4, 1985, Honolulu, Hawaii
116. "Cushing's Syndrome in Children." (1985) *American Society of Pediatric Neurosurgery; Annual Course in Neurosurgery* October 11, 1985, Boston, Massachusetts
117. "*In Utero* Hydrocephalus." (1985) *American Society of Pediatric Neurosurgery; Annual Course in Neurosurgery* October 11, 1985, Boston, Massachusetts
118. "Update on Phototherapy." (1985) *The 6th International Conference on Brain Tumor Research and Therapy*, Grove Park Inn. October 21-23, 1985, Asheville, North Carolina

119. "Brain Tumors during the First 24 Months of Life." (1985) *14th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section* December 4-6, 1985, Houston, Texas
120. "Preliminary Results of Decreased Whole Brain and Spinal Cord Irradiation in Children with Medulloblastoma." (1985) *14th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section* December 4-6, 1985, Houston, Texas
121. "Pediatric Neurosurgical Implications of the Amniotic Band Disruption Complex." (1985) *14th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section* December 4-6, 1985, Houston, Texas
122. "Surgical Approach to Congenital Cord Lesions." (1986) *Interventional, MRI and Neuroradiology Postgraduate Course; Department of Radiology, University of California, San Francisco* January 17, 1986, San Francisco, California
123. "Hydrocephalus: An Update." (1986) *Sonoma State Hospital* January 30, 1986, Sonoma, California
124. "Myelodysplasia: Update 1986." (1986) *O'Connor Hospital; Medical Education Meeting* February 4, 1986, San Jose, California
125. "Lipomyelomeningocele and Tethered Cord Syndrome." (1986) *American Association of Neurological Surgeons/Congress of Neurological Surgeons; Joint Section on Spinal Disorders* February 20, 1986, San Diego, California
126. "The Place of Surgery in Diagnosis and Therapy of Childhood CNS Tumors." (1986) *6th Annual Meeting of Current Approaches to Radiation Oncology, Biology and Physics; University of California, San Francisco* Fairmont Hotel March 28, 1986, San Francisco, California
127. "Advances in the management of Brainstem Glioma in Children." (1986) *39th Annual Meeting of the Neurosurgical Society of America* April 4, 1986, Point Clear, Alabama
128. "PNET Tumors in Childhood." (1986) *55th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section* April 16, 1986, Denver, Colorado
129. "Meningomyelocele 1986." (1986) *19th Annual Advances and Controversies in Clinical Pediatrics: University of California, San Francisco* May 16, 1986, San Francisco, California
130. "Application of Lasers in Pediatrics-Overview." (1986) *19th Annual Advances and Controversies in Clinical Pediatrics: University of California, San Francisco* May 16, 1986, San Francisco, California
131. "Modern Day Management of Pineal Tumors." (1986) *Pediatric Grand Rounds: University of California, San Francisco* May 29, 1986, San Francisco, California
132. "Radiology of Craniofacial Disorders." (1986) *15th Annual Neurosurgery Postgraduate Course: University of California, San Francisco* June 5-6, 1986, San Francisco, California

133. "Correction of Complex Skull Defects." (1986) *15th Annual Neurosurgery Postgraduate Course: University of California, San Francisco* June 5-6, 1986, San Francisco, California
134. "Lasers in Neurosurgery." (1986) *15th Annual Neurosurgery Postgraduate Course: University of California, San Francisco* June 5-6, 1986, San Francisco, California
135. "Pediatric Head Trauma." (1986) *Pediatric Grand Rounds: San Francisco General Hospital* June 24, 1986, San Francisco, California
136. "Lasers in Medicine." (1986) *University of California, San Francisco: Berkeley Bioengineering Students* August 28, 1986, San Francisco, California
137. "Pediatric Head Trauma." (1986) *Children's Hospital: Pediatric Grand Rounds* September 5, 1986, San Francisco, California
138. "Syringomyelia." (1986) *Congress on Neurological Surgeons* September 18, 1986, New Orleans, Louisiana
139. "Slit Ventricle Syndrome." (1986) *Congress on Neurological Surgeons* September 18, 1986, New Orleans, Louisiana
140. "Fetal Treatment." (1986) *Tarzana Medical Center: Continuing Medical Education* September 30, 1986, Tarzana, California
141. "Pineal Region Tumors." (1986) *Neurosurgery / Pediatric Grand Neurology Rounds: University of Pennsylvania* October 9-10, 1986, Philadelphia, Pennsylvania
142. "Fetal Treatment." (1986) *Neurosurgery / Pediatric Grand Neurology Rounds: University of Pennsylvania* October 9-10, 1986, Philadelphia, Pennsylvania
143. "Management of Myelodysplasia." (1986) *Pediatric Grand Rounds: Letterman Army Medical Center* October 30, 1986, San Francisco, California
144. "Management of Craniosynostosis." (1987) *Pediatric Grand Rounds: Letterman Army Medical Center* January 8, 1987, San Francisco, California
145. "Natural History of Fetal Ventriculomegaly." (1987) *10th Annual Meeting of the ASPN: Ambulatory Sentinel Practice Network* January 25-31, 1987, Kona, Hawaii
146. "The Rational Management of Fetal CNS Malformations." (1987) *Neurosurgery Grand Rounds: Northwestern University / Children's Memorial Hospital* February 26-27, 1987, Chicago, Illinois
147. "Modern Management of Pediatric Pineal Region Tumors." (1987) *Neurosurgery Grand Rounds: Northwestern University / Children's Memorial Hospital* February 26-27, 1987, Chicago, Illinois

148. "New Avenues of Phototherapy." (1987) *Radiation Biology Seminar: Stanford University, School of Medicine* April 29, 1987, Palo Alto, California
149. "Natural History of Fetal Ventriculomegaly." (1987) *American Association of Neurological Surgeons Annual Meeting* May 4, 1987, Dallas, Texas
150. "Evaluation and Treatment of Pediatric Brainstem Tumors." Panelist (1987) *American Association of Neurological Surgeons Annual Meeting* May 5, 1987, Dallas, Texas
151. "Medulloblastoma: A Curable Tumor?" Panelist (1987) *American Association of Neurological Surgeons Annual Meeting* May 5, 1987, Dallas, Texas
152. "Fetal Hydrocephalus: Diagnosis and Management." (1987) *8th Annual Postgraduate Course: Miami Children's Hospital, Department of Neurology* June 8, 1987, Key Biscayne, Florida
153. "Tethered Spinal Cord: Diagnosis and Management." *8th Annual Postgraduate Course: Miami Children's Hospital, Department of Neurology* June 8, 1987, Key Biscayne, Florida
154. "Pineal Region Tumors: New Diagnostic and Therapeutic Approaches" (1987) *8th Annual Postgraduate Course: Miami Children's Hospital, Department of Neurology* June 8, 1987, Key Biscayne, Florida
155. "Cushing Disease in Children." (1987) *5th Annual Stonwin Medical Conference on Surgery of Diencephalon* July 13, 1987, New York, New York
156. "Effective Chemotherapy for Malignant Pineal Germ Cell Neoplasms." (1987) *15th Annual Meeting of the International Society for Pediatric Neurosurgery* July 14, 1987, New York, New York
157. "Head and Neck Trauma." (1987) *Debates and Updates in Pediatric Emergencies*. Department of Emergency Medicine, San Francisco General Hospital and Department of Pediatrics, University of California, San Francisco, July 224, 1987, San Francisco, California
158. "Stereotactic Biopsy." (1987) *Advances in Imaging Technology*, Department of Radiology, *University of California, San Francisco* August 29, 1987, San Francisco, California
159. "The Uses for the Various Types of Lasers in Medicine." (1987) *28th Annual Meeting of the Lilliputian Surgical Society* October 9, 1987, Berkeley, California
160. "Applications of Lasers to Neurosurgery." (1987) *Lasers in Clinical Medicine Conference: Alta Bates-Herrick Laser Center* October 10, 1987, Berkeley, California
161. *Preuss Award Paper* "Bromodeoxyuridine: A Comparative Analysis of its Photosensitizing and Radiosensitizing Properties." (1987) *37th Annual Meeting of the Congress of Neurological Surgeons* October 26, 1987, Baltimore, Maryland

162. "Management of Pediatric Vascular Malformations." (1987) *Grand Rounds, Department of Pediatrics, University of California, San Francisco*, November 5, 1987, San Francisco, California
163. "Surgical Management of Lambdoid Synostosis: Review of 88 Cases." (1987) *16th American Association of Neurological Surgeons Winter Meeting: Pediatric Section*, The Palmer House, December 8-11, 1987, Chicago, Illinois
164. "Management of Craniopharyngioma in Children." *16th American Association of Neurological Surgeons Winter Meeting: Pediatric Section*, The Palmer House, December 8-11, 1987, Chicago, Illinois
165. "Modern Management of Posterior Fossa Tumors in Children." *Peralta Hospital: Cancer Update 1988* January 29, 1988, Oakland, California
166. "The Diagnosis of Prenatal Malformations, their Evolutions and the Role of the Neurosurgeon." (1988) *American Society for Pediatric Neurosurgeon: Review Course* February 4, 1988, Miami, Florida
167. "Treatment of Infants with Malignant Brain Tumors." (1988) *American Society for Pediatric Neurosurgeon: Review Course* February 5, 1988, Miami, Florida
168. "Dorsal Rhizotomy and Cerebral Palsy." (1988) *Pediatric Grand Rounds: Community Hospital* March 4, 1988, Santa Rosa, California
169. "Early Complications of Hydrocephalus." *National Conference for Parents and Professionals: Hydrocephalus-Treatment, Care and Advances. Cathedral Hill Hotel* March 11, 1988, San Francisco, California
170. "New Advancements in the Management of Brain Stem Glioma." (1988) *E. S. Gurdjian Lecture Series, Wayne State University School of Medicine*, April 12-13, 1988, Detroit, Michigan
171. "Diagnosis and Management of Spina Bifida." (1988) *E. S. Gurdjian Lecture Series, Wayne State University School of Medicine*, April 12-13, 1988, Detroit, Michigan
172. "Intracranial Pressure: Who and How to Monitor?" (1988) *Advances and Controversies in Clinical Pediatrics, University of California, San Francisco School Of Medicine*, April 30, 1988, San Francisco, California
173. "Neurosurgical management." (1988) *Pediatric Spinal Cord Injury: Medical and Rehabilitation Considerations, Shriners Hospital for Crippled Children*, May 20, 1988, San Francisco, California
174. "Correlation of Pediatric Brain MRI." (1988) *17th Annual Neurosurgery Postgraduate Course and 11th Annual Neurosurgical Nurse's Conference, Hyatt Regency*, June 2, 1988, San Francisco, California
175. "MRI / Clinical Correlation of Congenital Lesions of the Spine." (1988) *17th Annual Neurosurgery Postgraduate Course and 11th Annual Neurosurgical Nurse's Conference, Hyatt Regency*, June 3, 1988, San Francisco, California

176. "Pediatric Head Trauma." (1988) *Pediatric Grand Rounds: Children's Hospital* August 26, 1988, San Francisco, California
177. "Hydrocephalus." (1988) *Pediatric Neuroradiology Seminar, Hyatt Regency Hotel*, October 22, 1988, San Francisco, California
178. "Interstitial Implantation." (1988) *The Preuss Foundation, Pediatric Glioma Seminar, Hyatt Regency, Burlingame*. November 9, 1988, San Francisco, California
179. "Differential Effects of Polyamine Depletion on Expression of the c-myc and c-src Proto-Oncogenes in the Medulloblastoma Cell Line TE-671: Uncoupling of c-myc Expression and Cell Division." (1989) *American Association of Neurological Surgeons: Annual Meeting*, April 1-6, 1989, Washington D.C.
180. "Rhizotomy: Development and Surgical Protocol." (1989) *Selective Posterior Rhizotomy: Introduction to Surgery and Treatment, Shriners Hospital for Crippled Children*, May 19, 1989, San Francisco, California
181. "Hydrocephalus." (1989) *Contemporary Neuroradiology, Hyatt Regency Hotel*, June, 7, 1989, San Francisco, California
182. Panel Discussion (1989) *Contemporary Neuroradiology, Hyatt Regency Hotel*, June, 7, 1989, San Francisco, California
183. "Cryptic Vascular Malformations." (1989) *Contemporary Neuroradiology, Hyatt Regency Hotel*, June, 10, 1989, San Francisco, California
184. "Vein of Galen Malformations." (1989) *Contemporary Neuroradiology, Hyatt Regency Hotel*, June, 10, 1989, San Francisco, California
185. Panel Discussion (1989) *Contemporary Neuroradiology, Hyatt Regency Hotel*, June, 10, 1989, San Francisco, California
186. "Hydrocephalus." (1989) *Pediatric Neuroradiology Seminar*, October 7, 1989, San Francisco, California
187. "Medical management of Silt Ventricle Syndrome." (1989) *18th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Neurological Surgery, Willard Inter-Continental Hotel*, November 28-December 1, 1989, Washington D.C.
188. "Serial Ultrasonographic Evaluation of Neonatal Vein of Galen Malformations to Assess the Efficacy of Interventional Neuroradiologic Procedures." (1989) *18th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Neurological Surgery, Willard Inter-Continental Hotel*, November 28-December 1, 1989, Washington D.C.

189. "Management of Chiasmal / Hypothalamic Gliomas of Infancy and Childhood with Chemotherapy Alone: Preliminary Experience with Nitrosourea-based Regimens." (1989) *18th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Neurological Surgery, Willard Inter-Continental Hotel*, November 28-December 1, 1989, Washington D.C.
190. "Craniosynostosis." (1990) *Pediatric Grand Rounds: Children's Hospital*, January 5, 1990, San Francisco, California
191. "Hydrocephalus." (1990) *Pediatric Grand Rounds: San Francisco General Hospital*, January 9, 1990, San Francisco, California
192. "Childhood Tumors." (1990) *National Brain Tumor Foundation, Brain Tumor Conference: A Living Resource Guide*, February 9, 1990, San Francisco, California
193. "Pediatric Brain Tumors." (1990) *Cancer and Society Course: University of California, Berkeley* February 28, 1990, Berkeley, California
194. "Management of Craniopharyngioma in Children: Surgical and Neuropsychological Outcome." (1990) *43rd Annual Meeting of the Neurosurgical Society of America* April 16, 1990, Pebble Beach, California
195. "Management of Chiasmal and Hypothalamic Gliomas of Infancy and Childhood with Chemotherapy Alone." (1990) *43rd Annual Meeting of the Neurosurgical Society of America* April 16, 1990, Pebble Beach, California
196. "Midline Tumors in Childhood." (1990) *59th Annual Meeting of the American Association of Neurological Surgeons*, May 1, 1990, Nashville, Tennessee
197. "Vascular Disease in Childhood." (1990) *59th Annual Meeting of the American Association of Neurological Surgeons*, May 3, 1990, Nashville, Tennessee
198. "Pineal Tumors." (1990) *40th Annual Meeting of the Congress of Neurological Surgeons* October 23-24, 1990, Los Angeles, California
199. "Treatment and Natural History of Intracranial Tumors in Children." (1991) *Genetech Investigator Meeting*, March 21, 1991, San Francisco, California
200. "Anomalies of the Craniovertebral Junction." (1991) *Management of Cranial Vase Diseases*, Ritz-Carlton Hotel, November 21, 1991, San Francisco, California
201. "Pediatric Brain Tumors." (1992) *Sixth Annual Nancy Palmer Henline Oncology Seminar at Memorial Hospital*, February 8, 1992, Hollywood, Florida
202. "Plastic Techniques for Neurosurgery." (1992) *Annual Meeting of the American Association of Neurological Surgeons*, April 13, 1992, Moscone Center, San Francisco, California

203. "Germ-Cell Tumors: Management of the Spectrum." (1992) *Annual Meeting of the American Association of Neurological Surgeons*, April 13, 1992, Moscone Center, San Francisco, California
204. "Advances in the Management of Pediatric Intracranial Vascular Malformations." (1992) *Advances and Controversies in Clinical Pediatrics*, May 15, 1992, San Francisco, California
205. "An Update on Seizure Disorders and Recent Advances in Neurology and Neurosurgery." (1992) *Annual Meeting of the American Academy of Pediatrics*, October 14, 1992, San Francisco, California
206. "Advances in Neurosurgery of Practical Importance to the Pediatrician." (1992) *Annual Meeting of the American Academy of Pediatrics*, October 14, 1992, San Francisco, California
207. Plenary Session "Recent Advances in Diagnosis and Theory of Pediatric Brain Tumors." (1992) *Annual Meeting of the American Academy of Pediatrics*, October 15, 1992, San Francisco, California
208. "Gamma Knife." (1992) *Clinical Conference at John Muir Medical Center*, November 12, 1992, Walnut Creek, California
209. "The Surgical Management of Hydrocephalus." (1993) *Hydrocephalus: Meeting the Challenge. A National Conference for Families and Professionals*, January 23, 1993, Monterey, California
210. "Introduction to the Diagnosis and Treatment of Hydrocephalus." (1993)) *Hydrocephalus: Meeting the Challenge. A National Conference for Families and Professionals*, January 23, 1993, Monterey, California
211. "Medical / Legal Issues of Long Term Care." (1993) *Hydrocephalus: Meeting the Challenge. A National Conference for Families and Professionals*, January 24, 1993, Monterey, California
212. "Approaches to Lesions of the Pineal Region." (1993) *Annual Meeting of the American Association of Neurological Surgeons*, April 24-29, 1993, Boston, Massachusetts
213. "Hypothalamic Surgery and Chemotherapy." (1993) *Lawson Wilkins Pediatric Endocrine Society / European Society for Pediatric Endocrinology*, June 6, 1993, San Francisco, California
214. "Management of Pineal Region Tumors." (1993) *Annual Neurosurgery Postgraduate Course and Annual Neurosurgical Nurses' Conference*, December 2, 1993, San Francisco, California
215. "Neurosurgical Emergencies in Children." (1993) *Stabilization and Management of the Critically Ill Child*, December 4, 1993, San Francisco, California
216. "Care of Hydrocephalic Patients." (1994) *Continuing Medical Education Program: Petaluma Valley Hospital*, March 31, 1994, Petaluma, California

217. "New Treatment Methods in Pediatric Tumors." (1994) *American Association of Neurological Surgeons Annual Meeting*, April 9-14, 1994, San Diego, California
218. Panelist "Current Management of Midline Gliomas." (1994) *American Association of Neurological Surgeons Annual Meeting*, April 9-14, 1994, San Diego, California
219. "Use of Gamma Knife in Pediatric Neurosurgery." (1994) *Pediatric Department, Marin General Hospital*, April 22, 1994, San Rafael, California
220. "The Brain: Surgical Therapies and Tuberous Sclerosis." (1994) *Living with Tuberous Sclerosis and Seizures Conference*, June 5, 1994, Santa Clara, California
221. "Radiation-Induced Cryptic Vascular Malformation." (1994) *Neurology Grand Rounds: Department of Veterans Affairs, Ioannis A. Lougaris Medical Center*, June 6, 1994, Reno, Nevada
222. "The Imminent Changes in Health Care Reform – Emerging Perspectives." June 24, 1994, San Mateo, California
223. "New Challenges for Neurosurgery in the 21st Century: Computer Assisted Information Management, Imaging and Outcomes Analysis." (1994) *Annual Meeting of the Western Neurosurgical Society*, September 18, 1994, San Diego, California
224. "Management of Vein of Galen Malformation." (1994) *Combined Grand Rounds: University California, School of Medicine*, November 4, 1994, San Francisco, California
225. "Management of Vein of Galen Malformation." (1994) *Neurosciences Grand Rounds: Stanford University*, November 11, 1994, Stanford, California
226. Moderator "Craniopharyngiomas in Children". (1994) *19th Annual Neurosurgery Postgraduate Course and 13th Annual neurosurgical Nurses' Conference*, December 8-9, 1994, San Francisco, California
227. "Multimodality Therapy for Craniopharyngioma." (1994) *19th Annual Neurosurgery Postgraduate Course and 13th Annual neurosurgical Nurses' Conference*, December 8-9, 1994, San Francisco, California
228. "Etiology of Chiari I Malformation." (1994) *19th Annual Neurosurgery Postgraduate Course and 13th Annual neurosurgical Nurses' Conference*, December 8-9, 1994, San Francisco, California
229. "Management of Pediatric Head Trauma." (1995) *Washoe Medical Center Trauma Rounds*, May 15, 1995, Reno, Nevada
230. "The Head Injured Child." (1995) *Pediatric Emergencies Conference, Sutter Health*, September 23, 1995, Sacramento, California
231. "Spina Bifida." (1995) *Pediatric Grand Rounds; University of California, San Francisco*, March 29, 1995, San Francisco, California

232. "Stereotactic Radiosurgery." (1996) *Sutter Radiation Oncology Center*, May 15, 1996, Sacramento, California
233. "SIDS and Pediatric Cranial Development: Management of Craniosynostosis." (1996) *California Pacific Medical Center: Teleconference Network*, May 23, 1996, San Francisco, California
234. "Craniosynostosis." (1996) *Pediatric Grand Rounds; Community Hospital, A Sutter / CHS Affiliate*, September 2, 1996, Santa Rosa, California
235. "Gamma Knife." (1996) *Sutter Neurosciences Institute, Clinical Grand Rounds; Sutter General Hospital*, March 24, 1998, Sacramento, California
236. "Surgery vs. Radiosurgery." (1998) *44th Annual Western Neurosurgical Society Meeting*, September 12, 1998, Napa, California
237. "Principles and Practice of Gamma Knife Radiosurgery." (1998) *Leksell Gamma Knife Society, University of Pittsburgh*, September 21, 1998, Pittsburgh, Pennsylvania
238. "Mechanisms, Diagnosis and Management of Sports Related Head Trauma. Guidelines for Return to Play." (1998) *Adolescent Medicine Program, Sutter Health*, September 26, 1998, Sacramento, California
239. "Surgery without a Scalpel: Gamma Knife Radiosurgery." (1999) *New Horizons in the Treatment of Neurological Disorders Conference*, January 30, 1999, Santa Barbara, California
240. "Establishing the Value of Neurological Service." (1999) *1999 Annual Meeting of the California Association of Neurological Surgeons and Association of California Neurologists*, February 5-7, 1999, Santa Barbara, California
241. "Therapeutic Use of Gamma Knife Radiosurgery." (1999) *Cancers of the Gastrointestinal Tract: American Cancer Society*, March 12, 1999, Sacramento, California
242. "Pediatric Neurological Sequelae in Trauma." (1999) *Critical Care for Kids, Washoe Medical Center*, May 6, 1999, Reno, Nevada
243. "Neurosurgical Care-Initial Care at Birth, Back Closure & Hydrocephalus." (1999) *Managing Spina Bifida in the 21st Century; Shriners Hospitals for Children*, October 23, 1999, Sacramento, California
244. "Gamma Knife Radiosurgery for Pediatric Neurosurgery." (1999) *Mercy Healthcare Sacramento In cooperation with Sacramento Pediatric Society Presents "Pediatric Surgery Advances in the New Millennium*, November 6, 1999, Sacramento, California
245. Panelist "The Cerebral Venous System: Surgical Considerations." (2000) *The 68th Annual Meeting of the AANA*, April 8-13, 2000, San Francisco, California

246. "The Cerebral Venous System: Surgical Considerations." (2000) *AANS Welcoming the World of Neurosurgery*, May 8-13, 2000 San Francisco, California
247. "Conservative Surgical Management of Chiari I Malformations in 100 Patients." (2000) *the Fifty-Third Annual Meeting of the Neurological Society of America, jointly sponsored by The American Association of Neurological Surgeons*, June 4-7, 2000, Durango, Colorado
248. "Gamma Knife." (2000) *Sutter Lakeside Hospital: Medical Staff Dinner / CME meeting*, August 7, 2000, Lakeport, California
249. "Advances in Image Guided Neurosurgery." (2000) *Saint Mary's Regional Medical Center: Radiological Technology Conference 2000*, October 21-22, 2000, Reno, Nevada
250. Co-Moderator, Poster Session (2000) *29th Annual Meeting of the AANN/CAN Section on Pediatric Neurological Surgery*, December 6-9, 2000, San Diego, California
251. Moderator, Poster Session (2000) *Pediatric Section, Medical Advisory Board Meeting: Hydrocephalus Association*, December 6-9, 2000, San Diego, California
252. Co-Moderator, Poster Session (2000) *29th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery*, December 6-9, 2000, San Diego, California
253. "Gamma Knife Uses and Updates." (2001) *Sutter Nurses Conference, Sutter Cancer Center*, May 9, 2001, Sacramento, California
254. "Craniopharyngioma: New Treatment Strategies & Outcomes." (2001) *National Cooperative Growth Study*, October 5, 2001, Scottsdale, Arizona
255. "Pediatric Critical Care." (2001) *Annual Meeting of the American Academy of Pediatrics*, October 20-24, 2001, San Francisco, California
256. "Creating a 7-Step Compliance Plan-Audit Proof Your Practice." (2001) *CANS Annual Meeting*, January 18-20, 2002, San Francisco, California
257. "Past, Present and Future of Radiosurgery." (2002) *Neuro Grand Rounds, Sutter Medical Center Sacramento and Sutter Neuroscience Institute*, June 11, 2002, Sacramento, California
258. "Past, Present and Future of Radiosurgery." (2002) *University of California, Davis Brain Tumor Board Meeting*, September 12, 2002, Sacramento, California
259. "Past, Present and Future of Radiosurgery." (2002) *Washoe Medical Center*, December 10, 2002, Reno, Nevada
260. "Pediatric Neuroscience Updates." (2003) *Sutter Medical Center Women's and Children's Services*, February 22, 2003

261. "Radiosurgery for Children" (2003) *Sutter Medical Center Women's and Children's Services*, February 22, 2003
262. "3D Image Guided Brain Surgery." (2003) *Sutter Medical Center Women's and Children's Services*, February 22, 2003
263. "Gamma Knife." (2003) *3rd Annual Neuroscience Nursing Symposium*, April 21, 2003, Sacramento, California
264. "The Art and Science of the Sutter Neuroscience Institute." (2003) *Sutter General Hospital*, June 5, 2003, Sacramento, California
265. *The 56th Annual Meeting of the Neurosurgical Society of America*, June 8-11, 2003, Sunriver, Oregon
266. "Neuroscience Nursing on the Forefront." (2004) *Sutter Medical Center*, August 11, 2003, Sacramento, California
267. "Management of Pediatric Head Trauma." (2003) *Pediatric Clinical Update*, October 2, 2004, San Ramon Valley, California
268. "How to Evaluate a Head Injury." (2005) *Grand Rounds, Monterey Peninsula Community Hospital*, February 2005, Monterey, California
269. "Radiosurgery for Infants and Children." (2005) *13th Annual Pediatric Update, Stanford University*, July 8-9, 2005, Stanford, California
270. "Management of Pediatric Head Trauma." (2005) *Pediatric Update*, May 14, 2005, San Luis Obispo, California
271. "Clinical Innovation in Pediatric Critical Care." (2005) *Neurosurgery & Transplant Medicine CME Program*, August, 13, 2005, Las Vegas, Nevada
272. "Pediatric Neurosurgery: Past, Present and Future." (2005) *Pediatric Critical Care Nursing Conference*, September 12, 2005, San Francisco, California
273. Circles of Leadership, Donor Reception, September 20, 2005, LPCH @ Stanford, California
274. "LPCH Board of Directors." (2005) *Arrillaga Alumni Center*, November 1, 2005, Stanford, California
275. "Neurological Risks of the Preterm Infant." (2005) *March of Dimes 2nd Annual Prematurity Awareness Conference*, November 5, 2005, Las Vegas, Nevada
276. "Diagnosis and Management of Deformational Plagiocephaly." (2005) *Pediatric Grand Rounds, Stanford University Medical Center*, December 2, 2005, Stanford, California

277. "Pediatric Emergencies." (2005) *SUMC Grand Rounds*, December 2005, Stanford, California
278. "Mechanisms and Medical Management of Pediatric Head Trauma." (2006) *LPCH Auditorium*, February 23, 2006, Stanford, California
279. "Advances in Pediatrics Brain Tumor Surgery: 2006." (2007) *14th Annual Pediatric Update*, July 20-22, 2006, Stanford, California
280. "Guidelines for the Management of Pediatric Head Trauma." (2007) *Pediatric Clinical Update Conference*, April 28, 2007, Reno, Nevada
281. "Sports Related Concussions and Return-to-Play Guidelines." (2007) *Monterey Peninsula Community Hospital Grand Rounds*, October 9, 2007, Monterey, California
282. "Head Injuries in Children." (2007) *SCVMC Annual Pediatric Trauma Seminar*, October 27, 2007, San Jose, California
283. "Stroke in the Pediatric Population." (2008) *Neurosciences Nursing Symposium, Innovate, Motivate and Challenge: Planning for the Future of Neurosciences*, April 24, 2008, Palo Alto, California
284. "Brain Cancer: Childhood Medulloblastoma." (2008) *Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine*, April 29, 2008, Stanford, California
285. "Diagnosis and Management of Elevated Intracranial Pressure: Hydrocephalus, Trauma and Tumors." (2008) *Child Neurology Lecture Series for Stanford Neurology Residents*, May 7, 2008, Stanford, California
286. Stanford College Students "Brain Awareness Week" (2008) *Epilepsy Awareness Lecture Stanford University School of Medicine*, May 7, 2008, Stanford, California
287. July Clinical Consensus Conference "Attempts to Avoid VP Shunts in Premature Infants" (2008) *Stanford School of Medicine*, July 28, 2008, Stanford, California
288. "Pediatric Head Trauma" (2009) *Lucile Packard Children's Hospital Nursing Staff*, January 12, 2009, Stanford, California
289. "Brain Cancer: Childhood Medulloblastoma." (2009) *Stanford School of Medicine*, February 9, 2009, Stanford, California
290. "Craniofacial Surgery: The History of its Art and Science." (2009) *AANS 2009 Annual Meeting*, May 2-6, 2009, San Diego, California
291. "Pediatric Emergencies." (2009) *Grand Rounds, Stanford University*, July 2009, Stanford, California

292. "Pediatric Neurosurgical Emergencies" (2009) *Stanford University School of Medicine Residents*, August 21, 2009, Stanford, California
293. "Reoperation for Medically Refractory Epilepsy is Beneficial in Pediatric Patients with Brain Tumors." (2009) *Child Neurology Society Annual Meeting*, October 24-29, 2009, New Orleans, Louisiana
294. "Reoperation for Medically Refractory Epilepsy is Beneficial in Pediatric Patients with Brain Tumors." (2009) *2009 Congress of Neurological Surgeons Annual Meeting*, October 24-29, 2009, New Orleans, Louisiana
295. "Stem Cell Biology and Regenerative Medicine." (2010) *Stanford School of Medicine*, February 8, 2010, Stanford, California
296. "Aneurysms Associated with Arteriovenous Malformations in Children: A Case Series." (2010) *AANS/CNS Cerebrovascular Section Meeting* February 22-23, 2010, San Antonio, Texas
297. "Breaking the Error Chain: What Healthcare Can and Is Learning from Aviation Safety Training (2010) SiME Seminar Series, April 2010
298. "Pediatric Neurosurgery Emergencies" (2010) *Stanford University, School of Medicine Intern Education*, August 2010, Stanford, California
298. "Management and Outcome of Pediatric Intracranial Arteriovenous Malformations." (2011) *34th Annual Meeting of the American Society of Pediatric Neurosurgeons*, January 30 – February 4, 2011, Lana'i, Hawaii
299. "Pediatric Brain Tumor & Surgery of the Present & Future" (2011) *42nd Annual Meeting of the Association of Surgical Technologists*, May 31 – June 4, 2011, San Francisco, California.
300. "Advances in the Management of Pediatric Head Trauma" (2011) *Pediatric Trauma Performance Improvement & Patient Safety Conference*, June 23, 2011, Santa Clara Valley Medical Center, San Jose, California
301. "Diffusion Tensor Imaging as an Adjunct to Resection of Brain Stem and Spinal Cord Tumors in Children" (2011) *The Western Neurosurgical Society's 57th Annual Meeting*, September 10-13, 2011, Kauai, HI

Invited Lectures

International

1. "Medulloblastoma: The Role of Chemotherapy" (1978) January 1978, Acapulco, Mexico

2. "Medulloblastoma: The Role of Chemotherapy" (1979) *Neurosurgical Society of America*, January 22-26, 1979, Acapulco, Mexico
3. "Primary Cerebral Neuroblastoma" (1979) *American Society for Pediatric Neurosurgery 5th Annual Meeting*, February 21-27, 1979, Santo Domingo, Dominican Republic
4. "Chemotherapy of Recurrent Pediatric Posterior Fossa Tumors" (1982) *Congress of Neurological Surgeons 32nd Annual Meeting*, October 3-8, 1982, Toronto, Ontario, Canada
5. "Cerebral Arteriovenous Malformations in Children and Adolescents: Clinical Features and Management" (1983) *6th Annual Meeting of the American Society of Pediatric Neurosurgery*, February 25, 1983, Barbados, West Indies
6. "Outcome from Pediatric Head Injury" (1983) *11th Annual Meeting of the ISPN*, August 24, 1983, Göteborg, Sweden
7. "Useful Drugs and Drug Combinations (with Reference to Tumors known to be Sensitive to CT)" (1983) *13th International Congress of Chemotherapy*, August 29, 1983, Vienna, Austria
8. "Management of Ventriculomegaly Diagnosed *In Utero*" (1983) *12th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section*, December 2, 1983, Toronto, Ontario, Canada
9. "Cushing's Disease in Childhood" (1983) *12th Annual Meeting of the American Association of Neurological Surgeons: Pediatric Section*, December 2, 1983, Toronto, Ontario, Canada
10. "New Horizons in Pediatric Neurosurgery" (1984) *University of Toronto, Department of Neurosurgery*, May 29, 1984, Ontario, Canada
11. "Intrauterine Diagnosis and Management of Anomalies of the Central Nervous System" (1984) *Pediatric Grand Rounds, Hospital for Sick Children*, May 30, 1984, Toronto, Ontario, Canada
12. "Preliminary Experience with 125-Iodine Brachytherapy for Pediatric Brain Tumors" (1984) *12th Annual Meeting of the ISPN*, September 17, 1984, Cairo, Egypt
13. "Reconstruction of Large and/or Complex Skull Defects using Autogenous Skull Bone Grafts" (1985) *8th Annual Meeting of the American Society for Pediatric Neurosurgery*, February 14, 1985, Humacao, Puerto Rico
14. "Neurosurgery of the Unborn" (1985) *8th International Congress of Neurological Surgery*, July 8, 1985, Toronto, Ontario, Canada
15. "Urologic Aspects of the Tethered Cord Syndrome" (1985) *13th Annual Meeting of the International Society of Pediatric Neurosurgery: Scientific Meeting*, July 15-18, 1985, Mexico City, Mexico

16. "Magnetic Resonance Demonstration of Brainstem Gliomas in Children presenting with Hydrocephalus and Normal CT Studies." (1985) *13th Annual Meeting of the International Society of Pediatric Neurosurgery: Scientific Meeting*, July 15-18, 1985, Mexico City, Mexico
17. "Cell Kinetic Studies on Pediatric CNS Tumors" (1985) *13th Annual Meeting of the International Society of Pediatric Neurosurgery: Scientific Meeting*, July 15-18, 1985, Mexico City, Mexico
18. "Cushing's Disease in Children" (1985) *Hamamatsu University, School of Medicine*, November 9, 1985, Hamamatsu, Japan
19. "Diagnosis and Management of *In Utero* Shunting" (1985) *7th Kanto Neurosurgical Conference, Juntento University*, November 11, 1985, Tokyo, Japan
20. "Treatment of Medulloblastoma: How to Manage Patients with Medulloblastoma" (1990) *10th Annual Meeting of the Japanese Congress of Neurological Surgeons*, March 3, 1990, Tokyo, Japan
21. "Brainstem Glioma: Chemotherapy and Hyperfractionation Radiotherapy for Brainstem Glioma – Effective and Ineffective Cases" (1990) *10th Annual Meeting of the Japanese Congress of Neurological Surgeons*, March 4, 1990, Tokyo, Japan
22. "The Treatment of an Aneurysm of the Great Vein of Galen: Transarterial and/or Venous Approaches" (1990) *10th Annual Meeting of the Japanese Congress of Neurological Surgeons*, March 4, 1990, Tokyo, Japan
23. "Surgical Management Controversies" (1993) *The 5th International Symposium on Pediatric Neuro-Oncology and Second Consensus Conference on Pediatric Neurosurgery*, June 13, 1993, Marseille, France
24. "The Evolution of Gamma Knife Surgery" (1998) *The 9th International Leksell Gamma Knife Society Meeting*, October 8, 1998, Hong Kong, China