

CLINICAL NEUROSURGERY



VOLUME 57

SUPPLEMENT TO
NEUROSURGERY

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VOLUME 57



Education and Innovation

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A CULTURE OF EXCELLENCE



Congress of Neurological Surgeons
2009 ANNUAL MEETING
New Orleans, Louisiana
October 24-29, 2009

Preface

The 59th Annual Meeting of the Congress of Neurological Surgeons was held in New Orleans, Louisiana, from October 24-29, 2009. Volume 57 of *Clinical Neurosurgery* represents the official compilation of the invited scientific manuscripts from the plenary sessions, The Presidential Address by Dr David Adelson, and biographic and bibliographic information of the Honored Guest, Dr James T. Rutka.

Dr Nathan Selden, Annual Meeting Chairman, and Drs Ali Rezai and Russell Lonser, Scientific Program Chair and Vice Chair respectively, organized a superb meeting which was very well attended with more than 2800 medical attendees. The theme of this year's Annual Meeting, *A Culture of Excellence*, exemplified how neurosurgeons define, pursue, and measure excellence in their everyday practice and specialty. Dr David Adelson delivered his inspirational Presidential Address entitled, "Neurosurgery: A Culture of Excellence," and talked about the concept of "excellence." This meeting was also a joint meeting with our neurosurgical colleagues from the Neurological Society of India (NSI) and the American Association of South Asian Neurosurgeons (AASAN).

Honored Guest, Dr James T. Rutka, Professor and Chairman of Neurosurgery at the University of Toronto, gave three scholarly addresses discussing his philosophy about "excellence" in neurosurgery program building and how to enhance the academic mission, "excellence" in clinical neurosurgery using epilepsy surgery as an example, and "excellence" in neurosurgical research using neuro-oncology as a paradigm. Dr Rutka's final quote continues to resonate in our ears: "great surgeons are not born, rather they are made by a commitment or willingness to pay the price for excellence."

It has been my honor and privilege to serve as Editor of *Clinical Neurosurgery* over the last few years. We thank Dr Nelson Oyesiku, Editor-in-Chief of *NEUROSURGERY*[®], for his unrelent support and advice. We also thank Michele Lengerman and Laurie Behncke from the CNS Headquarters Office for their dedication, tireless energy, and hard work throughout the year as well as Christine Pruitt-Plasterer at Wolters Kluwer Health, Lippincott Williams and Wilkins for her patience and commitment to *Clinical Neurosurgery*.

We welcome Dr Gerald Rodts, Jr, as the new President of the Congress of Neurological Surgeons and look forward to seeing you all in San Francisco.

*Gerald A. Grant, MD
Editor-in-Chief
Duke University
Durham, North Carolina*

*Robert A. Mericle, MD
Associate Editor
Vanderbilt University
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Contributors

Tarek Abuelem, MD
Massachusetts General Hospital
Boston, Massachusetts

P. David Adelson, MD, FACS, FAAP
Phoenix Children's Neuroscience Institute
Phoenix, Arizona

Manish K. Aghi, MD, PhD
University of California at San Francisco
San Francisco, California

A. Leland Albright, MD
University of Wisconsin Health Center
Madison, Wisconsin

Angel Alvarez, BS
Florida Hospital Neuroscience Institute
Department of Neurological Surgery
University of Central Florida Burnett College of
Biomedical Sciences
Winter Park, Florida

Fred G. Barker, II, MD
Pappas Center for Neuro-Oncology
Massachusetts General Hospital
Boston, Massachusetts

Edward C. Benzel, MD
Center for Spine Health
Neurological Institute
Cleveland Clinic
Cleveland, Ohio

Mitchel S. Berger, MD
University of California at San Francisco
San Francisco, California

Mandy J. Binning, MD
Department of Neurosurgery and Toshiba Stroke
Research Center
School of Medicine and Biomedical Sciences
University at Buffalo, State University of New York, and
Millard Fillmore Gates Hospital, Kaleida Health
Buffalo, New York

Sergey Bushnev, MD
Florida Hospital Neuroscience Institute
Department of Neurological Surgery
University of Central Florida Burnett College of
Biomedical Sciences
Winter Park, Florida

H. Isaac Chen, MD
University of Pennsylvania School of Medicine
Philadelphia, Pennsylvania

Emad N. Eskandar, MD
Massachusetts General Hospital
Boston, Massachusetts

Melvin Field, MD
Florida Hospital Neuroscience Institute
Department of Neurological Surgery
University of Central Florida Burnett College of
Biomedical Sciences
Winter Park, Florida

J. Max Findlay, MD, PhD
University of Alberta
Edmonton, Alberta, Canada

John C. Flickinger, MD
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

William A. Friedman, MD
University of Florida
Gainesville, Florida

John Gale, PhD
Massachusetts General Hospital
Boston, Massachusetts

L. Nelson Hopkins, MD
Departments of Neurosurgery and Radiology and Toshiba
Stroke Research Center
School of Medicine and Biomedical Sciences
University at Buffalo, State University of New York, and
Millard Fillmore Gates Hospital, Kaleida Health
Buffalo, New York

Peter J. Hutchinson, FRCS (SN), PhD
Addenbrooke's Hospital and University of Cambridge
Cambridge, United Kingdom

Hideyuki Kano, MD, PhD
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

Peter J. Kirkpatrick, FRCS (SN), FMedSci
Addenbrooke's Hospital and University of Cambridge
Cambridge, United Kingdom

Angelos G. Kolias, MSc, MRCS
Addenbrooke's Hospital and University of Cambridge
Cambridge, United Kingdom

Douglas Kondziolka, MD, MSc, FRCS(C), FACS
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

John J.K. Lee, MD
University of Pennsylvania School of Medicine
Philadelphia, Pennsylvania

Elad I. Levy, MD, FACS, FAHA
Departments of Neurosurgery and Radiology and Toshiba
Stroke Research Center
School of Medicine and Biomedical Sciences
University at Buffalo, State University of New York, and
Millard Fillmore Gates Hospital, Kaleida Health
Buffalo, New York

Mark E. Linskey, MD
UC Irvine School of Medicine
Orange, California

J.R. Lister, MD
University of Florida
Gainesville, Florida

Javier Lobato-Polo, MD
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

Gwen Lombard, RN, PhD
University of Florida
Gainesville, Florida

Andres Lozano, MD, PhD
University of Toronto
Toronto, Ontario, Canada

L. Dade Lunsford, MD
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

Samit Satish Mehta, MD
Apollo Specialty Hospital
Chennai, Tamil Nadu, India

Matthew K. Mian, BSE
Massachusetts General Hospital
Boston, Massachusetts

Basant Kumar Misra, MBBS, MS, MCh
P. D. Hinduja National Hospital and Medical
Research Centre
Veer Savarkar Marg, Mahim
Mumbai, India

Gregory J. Murad, MD
University of Florida
Gainesville, Florida

Nelson Oyesiku, MD, PhD, FACS
Emory Clinic
Emory University
Atlanta, Georgia

Francisco A. Ponce, MD
University of Toronto
Toronto, Ontario, Canada; and
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
Phoenix, Arizona

Samuel D. Rose, BS
University of California at San Francisco
San Francisco, California

James T. Rutka, MD, PhD, FRCSC, FACS, FAAP
The Hospital for Sick Children
and the Arthur and Sonia Labatt Brain Tumour
Research Centre
The University of Toronto
Toronto, Ontario, Canada

Nader Sanai, MD
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
Phoenix, Arizona

Thomas Santarius, MD, PhD
Addenbrooke's Hospital and University of Cambridge
Cambridge, United Kingdom

Sameer Sheth, MD, PhD
Massachusetts General Hospital
Boston, Massachusetts

Adnan H. Siddiqui, MD, PhD
Departments of Neurosurgery and Radiology and Toshiba
Stroke Research Center
School of Medicine and Biomedical Sciences
University at Buffalo, State University of New York, and
Millard Fillmore Gates Hospital, Kaleida Health
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Volker K.H. Sonntag, MD
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
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Robert F. Spetzler, MD
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
Phoenix, Arizona

Kiminobu Sugaya, PhD
Florida Hospital Neuroscience Institute
Department of Neurological Surgery
University of Central Florida Burnett College of
Biomedical Sciences
Winter Park, Florida

Oscar Zorro, MD
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania



JAMES T. RUTKA

Honored Guest
James T. Rutka, MD, PhD, FRCSC, FACS, FAAP

Born in Toronto, and educated at Princeton University (1975-1977) and Queen's University Medical School (1977-1981), James T. Rutka, MD, PhD, FRCSC, FACS, FAAP, interned at McGill University (1981-1982) before entering the University of Toronto Neurosurgery Training Program in 1982. His training included a research fellowship at the Brain Tumor Research Center, the University of California San Francisco where he obtained his PhD in Experimental Pathology (1984-1987). Upon conclusion of his neurosurgical residency in 1989, Dr Rutka did a clinical fellowship in microvascular neurosurgery with Dr Kenichiro Sugita at the University of Nagoya, and a post-doctoral research fellowship in molecular immunology at Juntendo University, Tokyo (1990).

Dr Rutka assumed his appointment in the Department of Surgery, Division of Neurosurgery in 1990, and has been on the surgical staff at the Hospital for Sick Children in the Division of Pediatric Neurosurgery since that time. Dr Rutka's primary research and clinical interests relate to the science and surgery of human brain tumors. His laboratory interests lie in the molecular biology of human brain tumors - specifically in the determination of the mechanisms by which brain tumors grow and invade. His recent clinical interests have centered on the surgical treatment of epilepsy in children. He has over 250 peer-reviewed publications. His laboratory has been continually funded with grants from the CIHR, NCIC, OICR and the Pediatric Brain Tumor Foundation (since 1992). He is on the editorial boards of the *Journal of Neurosurgery*, *NEUROSURGERY*®, the *Journal of Neuro-Oncology* and *Neuro-Oncology*.

Dr Rutka was appointed as Co-Director of the Arthur and Sonia Labatt Brain Tumor Research Centre at the University of Toronto in 1998. In 1999, he received a Scientist Award from the Medical Research Council of Canada. That same year, Dr Rutka was promoted to Professor in the Department of Surgery, and was appointed Chairman of the Division of Neurosurgery at the University of Toronto. He currently holds the Dan Family Chair in Neurosurgery. In 2001, Dr Rutka received the Lister Award in the Department of Neurosurgery for sustained contributions to surgical research at the University of Toronto. In 2002, Dr Rutka was listed by Globe and Mail as one of the Nation Builders in Canada, in the section of Science and Technology. In 2004, he was honored with the Grass Award from the Society of Neurological Surgeons. In 2005, he received the Farber Award from the AANS/CNS Section on Tumors for longstanding contributions to neuro-oncology research. In 2006, Dr Rutka was appointed to the position of Secretary of the American Association of Neurological Surgeons and was awarded the International Order of Smile, an award which honors individuals for their love, care and aid of children.

Selected Bibliography for James T. Rutka, MD, PhD, FRCSC, FACS, FAAP

PA-denotes Principal Author; SRI-Senior Responsible Investigator; CPA-Co-Principal Author; C-Collaborator

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- protein of an anaplastic astrocytoma cell line. *International Journal of Cancer* 1988: 42: pp 419-427. **PA**
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99. **Nilsson D, Rutka JT, Snead CO, Raybaud C, Widjaja E:** Preserved structural integrity of white matter tracts adjacent to low-grade tumors. 36th Annual Meeting of the International Society for Paediatric Neurosurgery, Cape Town, South Africa. *Child's Nervous System* 2008; 24(10): pp 1256. **C**
100. **Rutka JT, Benifla M, Drake J, Sala F, Otsubo H, Widjaja E, Snead OC:** Resection of Symptomatic Peri-Rolandic Lesions in Children. 36th Annual meeting of the international Society for Pediatric Neurosurgery, Cape Town, South Africa. *Child's Nervous System* 2008; 24 (10): pp 1227. **PA**
101. **Gupta S, Rutka JT:** Extraaxial (extradural/subdural) infections of CNS in pediatric population. 44th annual Congress of the Canadian Neurological Sciences Federation, Halifax, NS. *The Canadian Journal of Neurological Sciences* 2009; 36 (93): pp S16. **SRI**
102. **Bhardwaj RD, Mahmoodabadi S, Otsubo H, Snead C, Rutka JT, Widjaja E:** Unique functional pathway detected with MEG and DT1 tractography in pediatric epilepsy. 44th annual Congress of the Canadian Neurological Sciences Federation, Halifax, NS. *The Canadian Journal of Neurological Sciences* 2009; 36(3): pp S25. **C**
103. **Seol HJ, Smith C, Seo YC, Rutka JT:** CD99 Modulates the migration and invasiveness of human malignant glioma cells. 2009 Joint Meeting of SNO and AANS/CNS Section on Tumors, New Orleans, LA. *Neuro-Oncology* 2009; 11(5) 30: pp 571. **SRI**
104. **Onvani S, Kongkham P, Smith C, Rutka JT:** Effects of CMET oncogenic activation on medulloblastoma pathogenesis. 2009 Joint Meeting of SNO and AANS/CNS Section on Tumors, New Orleans, LA. *Neuro-Oncology* 2009; 11(5) 78: pp 581. **SRI**
105. **Restrepo A, Agnihotri S, Smith C, Kongkham P, Rutka JT:** Epigenetic regulation of glial fibrillary acidic protein by methylation in malignant gliomas. 2009 Joint Section Meeting of SNO and AANS/CNS Section on Tumors, New Orleans, LA. *Neuro-Oncology* 2009; 11(5) 65: pp 578. **SRI**
106. **Etame AB, Perrault S, Smith C, Chan WC, Rutka JT:** Nanoparticle transport into the central nervous system. 2009 Joint Meeting of SNO and AANS/CNS Section on Tumors, New Orleans, LA. *Neuro-Oncology* 2009; 11(5) 64: pp 578. **SRI**
107. **Weeks A, Ivanchuk S, Seol HJ, Smith C, Mondal S, Rutka JT:** The role of cytoplasmic Ect2 in glioma invasion and migration. 2009 Joint Meeting of SNO and AANS/CNS Section on Tumors, New Orleans, LA. *Neuro-Oncology* 2009; 11(5) 63: pp 578. **SRI**
108. **Seol HJ, Smith C, Salhia B, Rutka JT:** The role of the guanine-nucleotide-exchange factor swap-70 in the migration and invasiveness of human malignant glioma cells. 2009 Joint Meeting of SNO and AANS/CNS Section on Tumors, New Orleans, LA. *Neuro-Oncology* 2009; 11(5) 30: pp 572. **SRI**

PRESENTATIONS

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES/ETC.

1. Canadian Congress of Neurological Sciences, K.G. McKenzie Award Lecture, London, Ontario, Jun 1986. Effects of extracellular matrix proteins on the growth and differentiation of an anaplastic glioma cell line.
2. Kyoto University, Kyoto, Japan, Mar 5, 1990. Tumor necrosis factor in human malignant gliomas.
3. Kumamoto University, Kumamoto, Japan, Mar 7, 1990. Growth factors in human malignant gliomas: Evidence supporting the autocrine hypothesis.
4. Juntendo University, Tokyo, Japan, Apr 20, 1990. Clinical cases from the Hospital for Sick Children.
5. Tokyo University, Tokyo, Japan, Jun 18, 1990. Role of the extracellular matrix in normal human brain and in human brain tumors.

6. Nikko Brain Tumor Conference, Karatsu, Japan, Nov 6, 1990. The extracellular matrix: Cues from the microcellular environment which can inhibit or stimulate cell growth.
7. Dana Farber Cancer Institute/Brigham and Women's Hospital, Boston, Massachusetts, Dec 1990. The extracellular matrix in human gliomas.
8. Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 1991. Biology and genetics of glioma.
9. Stanford University, Palo Alto, California, Jul 29, 1991 - Jul 30, 1991. Malignant supratentorial astrocytomas in children.
10. Brown University, Providence, Rhode Island, Oct 1991. Medulloblastoma: The last decade of experience at the Hospital for Sick Children (1980-1989).
11. American Association of Neurological Surgeons, San Francisco, California, Apr 1992. Panelist: Management of low grade gliomas.
12. Pediatric Oncology Group of Ontario, Toronto, Ontario, May 1992. (1) Surgical applications to supra- and infratentorial tumors from a surgical and biological standpoint, (2) Childhood brain tumors: An overview.
13. Memorial Sloan-Kettering Cancer Center, New York, New York, Sep 1992. (1) The role of surgery in the management of a child with a brain tumor, (2) Medulloblastoma in childhood: From a difficult past to a promising future.
14. University of Western Ontario, London, Ontario, Sep 1992. The gene for GFAP alters tumorigenicity of human astrocytoma cells.
15. Mayo Clinic, Rochester, Minnesota, Jun 1993. Medulloblastoma 1993: Evolving concepts in patient management research.
16. International Congress of Neuropathology, Toronto, 1994. GFAP gene is methylated in GFAP negative glioma cells.
17. International Congress of Neuropathology, Toronto, 1994. Inhibition of invasion and alteration of morphology in human astrocytoma cells transfected with TIMP-1 cDNA.
18. Canadian Congress of Neurological Sciences, St. John's, Newfoundland, Jun 1994. (1) President symposium: Biology of brain tumors, (2) Genetic manipulation of the cytoskeleton in astrocytomas: Playing with a house of cards.
19. Congress of Neurological Surgeons, Brain Tumor Satellite Symposium, Chicago, Illinois, Oct 6, 1994. Molecular mechanisms of astrocytoma invasion: Therapeutic implications of genetic strategies.
20. Canadian Congress of Neurological Sciences, Victoria, British Columbia, 1995. Expression of cyclins, cyclin dependent kinases, and their inhibitors in astrocytoma by northern analysis, immunoblotting, and immunohistochemistry.
21. Canadian Congress of Neurological Sciences, Victoria, British Columbia, 1995. Transfection of a human fibrosarcoma cell line with a glial fibrillary acidic protein cDNA.
22. Tokai University, Isehara, Japan, May 12, 1995 - May 14, 1995. Management of low grade astrocytomas in children.
23. Kumamoto University, Kumamoto, Japan, May 13, 1995 - May 15, 1995. Cytoskeletal-induced alterations in human astrocytomas.
24. Saga Medical College, Saga, Saga, Japan, May 15, 1995 - May 17, 1995. Management of anterior cranial fossa encephaloceles in children.
25. Japanese Society of Pediatric Neurosurgery, Matsue, Japan, May 18, 1995 - May 20, 1995. (1) Low grade astrocytomas in children: Recent technical advances facilitating aggressive surgical resection, and management of controversial cases, (2) Separation of craniopagus twins in the modern era of neuro-imaging, interventional neuro-radiology, and frameless stereotaxy, and (3) Management of anterior cranial fossa encephaloceles in children.
26. Juntendo University, Tokyo, Japan, May 22, 1995 - May 24, 1995. Separation of craniopagus twins: Case report.
27. American Society of Pediatric Neurosurgeons, Deer Valley, Utah, Jun 7, 1995 - Jun 10, 1995. Medulloblastoma research: Recent advances and future directions.

28. Canadian Congress of Neurological Sciences, Victoria, British Columbia, Jun 21, 1995 - Jun 24, 1995. The biology of human brain tumors.
29. Eleventh International Conference on Brain Tumor Research and Therapy, Napa, California, Nov 1, 1995 - Nov 3, 1995. Chair: Glial oncogenesis.
30. American Association of Neurological Surgeons, Minneapolis, Minnesota, Apr 28, 1996. Low grade astrocytomas.
31. Congress of Neurological Surgeons, Montreal, Quebec, Sep 29, 1996 - Oct 3, 1996. Symposium on posterior fossa tumors: Medulloblastoma.
32. 46th Annual Meeting, Congress of Neurological Surgeons, Montreal, Quebec, Oct 1, 1996. (1) Posterior fossa and brainstem tumors in children, (2) Gene therapy: Results of recent trials and future directions.
33. Society for Neuro-Oncology, Santa Fe, New Mexico, Nov 8, 1996 - Nov 10, 1996. (1) Combined utility of functional MRI, frameless stereotaxy, and electrocorticography in the aggressive resection of lesions in eloquent locations in the child's brain, (2) Expression of focal adhesion kinase in human astrocytomas: Evidence for "in-to-out" and "out-to-in" signalling pathways.
34. 25th Annual Meeting, The Joint Section on Pediatric Neurological Surgery of the AANS/CNS, Charleston, South Carolina, Dec 12, 1996. Intracranial pressure monitoring after severe head injury in children: The Richmond bolt versus the Camino catheter.
35. American Association for Cancer Research, 88th Annual Meeting, San Diego, California, 1997. Dissociation of p21 and p27-induced cell cycle arrest from phenotypic differentiation in retinoic acid-treated astrocytoma cells.
36. American Association for Cancer Research, San Diego, California, 1997. Expression of the 67-kD elastin binding protein in human gliomas. Implications for glioma invasion.
37. American Association of Cancer Research, 88th Annual Meeting, San Diego, California, 1997. Regulation of the adhesion of a human fibrosarcoma cell line to extracellular matrix by glial fibrillary acidic protein.
38. 32nd Annual Meeting of the Canadian Congress of Neurological Sciences, Saskatoon, Saskatchewan, 1997. Two magnetic foci proved by chronic invasive intracranial monitoring in a child with right frontal-central epilepsy.
39. International Skull Base Surgery Symposium, Little Rock, Arkansas, Mar 24, 1997. Molecular surgery for meningiomas.
40. American Association of Neurological Surgeons, Denver, Colorado, Apr 14, 1997. Low grade gliomas: Current treatments and controversies.
41. Neurotumor Club Annual Meeting., San Diego, California, Apr 15, 1997. Expression of the 67 kD elastin binding protein by human astrocytomas.
42. Department of Neurosurgery. University of California San Diego., San Diego, California, Apr 17, 1997. Management and outcome of neonates with posterior fossa subdural hematomas.
43. Division of Neurosurgery, Harvard University, Boston, Massachusetts, May 7, 1997 - May 8, 1997. Posterior fossa subdural hematomas in neonates: Diagnosis and management.
44. Korean Society of Pediatric Neurosurgeons, Seoul, Korea, May 22, 1997 - May 24, 1997. (1) Brainstem tumors in children, (2) Frameless stereotaxy in pediatric neurosurgery, (3) Review of basic science in neuro-oncology, (4) Resection of skull base tumors in children.
45. 11th International Congress of Neurological Surgery, Amsterdam, The Netherlands, Jul 6, 1997 - Jul 11, 1997. (1) Detection and management of raised intracranial pressure in children following craniofacial procedures, (2) Repair of anterior fossa encephaloceles, (3) Medulloblastoma: Future therapies based on molecular biology.
46. Congress of Neurological Surgeons, New Orleans, Louisiana, Sep 30, 1997. (1) Management of posterior fossa tumors, (2) Moderator: Luncheon seminar.
47. National Meeting on Malignant Tumors in Children, Beijing, People's Republic of China, Oct 8, 1997 - Oct 10, 1997. The molecular biology of childhood brain tumors.
48. Juntendo University Department of Neurosurgery, Tokyo, Japan, Oct 20, 1997. (1) Role of frameless stereotaxy in the resection of skull base lesions in children, (2) Medulloblastoma: Current treatments and future directions.

49. Japanese Neurosurgical Society, Osaka, Japan, Oct 22, 1997 - Oct 24, 1997. (1) Role of multiple subpial transections in children with epileptogenic foci in brain, (2) New diagnostics and treatments for patients with malignant brain tumors based on molecular biology findings, (3) Are radiotherapy and chemotherapy necessary for patients with low grade gliomas?, (4) Combined utility of fMRI, cortical mapping and frameless stereotaxy in the resection of lesions in eloquent brain.
50. Toyama Medical and Pharmaceutical University, Toyama, Japan, Oct 25, 1997. The molecular biology of human malignant gliomas.
51. Shinshu University Department of Neurosurgery, Matsumoto, Japan, Oct 27, 1997. Medulloblastoma: Current practices and future directions.
52. Aichi Medical University, Aichi, Japan, Oct 28, 1997. Medulloblastoma: Current practices and future directions.
53. Nagoya University, Department of Neurosurgery, Nagoya, Japan, Oct 29, 1997. (1) p16-induced regulation of astrocytoma tumorigenicity, (2) Medulloblastoma: Current practices and future directions.
54. Medical College of Georgia, Augusta, Georgia, Jan 6, 1998. Recent advances in the treatment of patients with malignant brain tumors.
55. American Association of Neurological Surgeons, Philadelphia, Pennsylvania, Apr 27, 1998. (1) Low grade gliomas: Current treatment and controversies, (2) Course: Aggressive resection of brainstem tumors in children.
56. Turkish Neurosurgical Society, Twelfth Annual Scientific Congress, Antalya, Turkey, May 15, 1998 - May 19, 1998. (1) Combined utility of fMRI, frameless stereotaxy, and cortical mapping in the resection of tumors in eloquent brain in children, (2) Aggressive resection of brainstem tumors in children, (3) Use of multiple subpial transections for seizure control in children.
57. Visiting Professor, University of Chicago, Chicago, Illinois, Jun 5, 1998. Aggressive resection of brainstem tumors in children.
58. Leeds Regional Meeting for Neuro-Oncology, Leeds, England, Jun 18, 1998. Medulloblastoma: Recent advances from the bench to the bedside.
59. Candlelighters Third International Conference, Montreal, Quebec, Jul 31, 1998 - Aug 2, 1998. Recent advances in the management of the child with a brain tumor.
60. L'hôpital enfants malades, Necker, Paris, France, Aug 27, 1998. Role of multiple subpial transections in refractory epilepsy in children.
61. Alberta Heritage Medical Research/University of Calgary, Calgary, Alberta, Sep 17, 1998 - Sep 18, 1998. (1) Cell cycle control in human astrocytomas, (2) Medulloblastoma, a recent appraisal.
62. Pediatric Oncology Group of Ontario, Satellite Programme, Toronto, Ontario, Sep 19, 1998. Surgical considerations in medulloblastoma.
63. Congress of Neurological Surgeons, Seattle, Washington, Oct 5, 1998. Craniopharyngioma.
64. Pediatric Section in Neurosurgery., Indianapolis, Indiana, Dec 3, 1998. Ependymoma in children.
65. Stanford University, Palo Alto, California, Jan 5, 1999. Current concepts in pediatric epilepsy surgery.
66. American Association of Neurological Surgeons, New Orleans, Louisiana, Apr 27, 1999. Panelist: Low-grade gliomas: Current treatment and controversies.
67. Congress of Neurosurgery, Boston, Massachusetts, Nov 3, 1999. (1) Treatment of craniopharyngiomas, (2) Moderator.
68. Society for Neuro-Oncology, Scottsdale, Arizona, Nov 19, 1999. Cytotoxic CD44-mediated targeting of human astrocytomas using colloidal gold and low dose radiation.
69. Trillium Health Centre, Mississauga Site, Mississauga, Ontario, Nov 24, 1999. Advances in brain tumor surgery.
70. World Conference on Pediatric Neurosurgery, Martinique, France, Dec 3, 1999. Perspectives in pediatric neurosurgery.

71. American Association of Neurological Surgeons, San Francisco, California, Apr 8, 2000 - Apr 13, 2000. (1) Craniopharyngioma-point/counterpoint, (2) How to build a brain tumor center, (3) Update on tumors for the general neurosurgeon, (4) Management of brain stem tumors, (5) Novel treatments for malignant brain tumors.
72. Korean Neurosurgical Association, Cheju Island Korea, Apr 20, 2000 - Apr 22, 2000. (1) Epilepsy surgery in children (2) Surgery of brain stem tumors in children.
73. Third Annual Pediatric Brain Tumour Conference, Toronto, Ontario, May 6, 2000. Brain tumors: An update.
74. Second International Symposium of Brain Tumor Pathology 2000, Nagoya, Japan, May 11, 2000 - May 13, 2000. (1) Current management of brain tumors in children, (2) Overview of the cell cycle and human gliomas, (3) Developmental signaling pathways in medulloblastoma.
75. Barrow Neurological Institute, Phoenix, AZ, May 19, 2000. Non-lesional epilepsy surgery in children.
76. 54th Annual Meeting for the Canadian Society of Plastic Surgeons, Winnipeg, Manitoba, Jun 8, 2000. Application of hydroxyapatite (HA) cement in complex congenital and acquired cranial vault deformities.
77. 54th Annual Meeting of the Canadian Society of Plastic Surgeons, Winnipeg, Manitoba, Jun 10, 2000. Application of bioresorbable fixation in pediatric craniosynostosis surgery.
78. Congress of Neurological Surgeons Annual Meeting, San Antonio, Texas, Sep 23, 2000 - Sep 28, 2000. Third ventricular tumors: open, stereotactic, and endoscopic approaches.
79. The Western Neuroradiological Society, Monterey, California, Oct 6, 2000 - Oct 8, 2000. Pediatric seizure surgery.
80. Canadian Association of Neuropathologists Meeting, Banff, British Columbia, Oct 20, 2000 - Oct 22, 2000. Royal College of Physicians and Surgeons of Canada Speaker "New insights into the molecular genetics and pathology of human brain tumors.
81. MD Anderson Cancer Centre Conference, Houston, Texas, Jan 26, 2001 - Jan 28, 2001. Molecular Determinants of Glioma Invasiveness.
82. American Association of Pediatric Neurosurgeons, Maui, Hawaii, Jan 28, 2001 - Feb 2, 2001. Indications & Utility of Tumor Biopsy in Pediatric Populations.
83. American Association of Pediatric Neurosurgeons, Maui, Hawaii, Jan 28, 2001 - Feb 2, 2001. The Role of RhoA in the Regulation of Astrocytoma Motility and Invasion.
84. University of Virginia, Charlottesville, Virginia, Mar 15, 2001 - Mar 17, 2001. The Role of Multiple Subpial Transections in Epilepsy Surgery in Children.
85. American Association of Neurological Surgeons, Toronto, Ontario, Apr 21, 2001 - Apr 26, 2001. 1) the Development of a Modern algorithm for the Management of Pineal Region Masses. 2)Craniopharyngiomas. 3) Cell Biology and Pathology.
86. Society of Neurological Surgeons, Cleveland, USA, May 20, 2001 - May 22, 2001. The Molecular Basis of Neurosurgical Disease.
87. The 14th International Conference on Brain Tumor Research and Therapy, Asheville, North Carolina, May 26, 2001 - May 30, 2001. A novel spontaneous model of leptomeningeal leukemia and hydrocephalus in P53-/-RAG-2-/-SCID triple mutant mice.
88. The 14th International Conference on Brain Tumor Research and Therapy, Asheville, North Carolina, May 26, 2001 - May 30, 2001. Transcriptional profiling in pediatric medulloblastoma by cDNA microarray.
89. The 14th International Conference on Brain Tumor Research Therapy, Asheville, North Carolina, May 26, 2001 - May 30, 2001. Truncating mutations of human suppressor of fused(HSU(FU)) in pediatric medulloblastoma: Implications for sonic hedgehog and WNT signaling.
90. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. cDNA microarray analysis of pediatric medulloblastoma.
91. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Expression of notch-1 protects U251 astrocytoma cells from apoptosis in response to serum depletion.

92. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Focal malformations of cortical development with balloon cells-clinicopathological correlates in pediatric epilepsy surgery patients.
93. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Medulloblastoma in a patient with Rubinstein-Taybi Syndrome.
94. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Multiple Subpial Transections in the Surgical Candidates using Depth Electrodes and SEEG.
95. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Multiple subpial transections in the surgical management of pediatric epilepsy.
96. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Novel truncating germline mutation in VHL tumour suppressor gene presenting as type II Von Hippel Lindau Syndrome.
97. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Persistent seizure disorders secondary to residual/recurrent dysembryoplastic neuroepithelial tumours.
98. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Pre-surgical factors that influence seizure outcome in children after temporal lobectomy.
99. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Spontaneous hydrocephalus and leptomeningeal leukemia in p53 RAG-2 SCID triple mutant mice.
100. 36th Meeting of the Canadian Congress of the Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Surgical treatment of epilepsy in children with cortical dysplasia: a review of 42 cases.
101. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Threshold of afterdischarge in children with neuronal migration disorders.
102. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Truncating mutations of human suppressor of fused (HSU(FU)) in pediatric medulloblastoma: implications for Sonic Hedgehog and Wnt signaling.
103. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 12, 2001 - Jun 16, 2001. Verotoxin treatment of malignant meningiomas.
104. 36th meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Jun 13, 2001 - Jun 16, 2001. Molecular biology and its current and potential relevance in treatment strategies and prognosis of brain tumours in childhood.
105. CNS 51st Annual Meeting, San Diego, California, Sep 29, 2001 - Oct 4, 2001. Complementary deoxyribonucleic acid microarray analysis of pediatric medulloblastoma.
106. CNS 51st Annual Meeting, San Diego, California, Sep 29, 2001 - Oct 4, 2001. Persistent seizure disorder secondary to residual/recurrent dysembryoplastic neuroepithelial tumors.
107. CNS 51st Annual Meeting, San Diego, California, Sep 29, 2001 - Oct 4, 2001. Posterior fossa and brainstem tumors in children: Approaches and complication avoidance.
108. Seoul National University, Seoul, Korea, Nov 4, 2001 - Nov 9, 2001. Recent advances and future direction of brain tumor research.
109. Seoul National University, Seoul, Korea, Nov 6, 2001. Multiple subpial transections.
110. Taegu St. Mary Hospital, Taegu, Taegu, Korea, Nov 7, 2001. Prospects for the future of neuro-oncology in the new millennium.
111. Seoul National University, Seoul, Korea, Nov 9, 2001. Developmental signaling pathways in human medulloblastoma.
112. Seoul National University, Seoul, Korea, Nov 9, 2001. New models for studying the pathobiology of human brain tumors.

113. Annual meeting of the American Academy of Neurological Surgery, Palm Beach, Florida, Nov 14, 2001 - Nov 19, 2001. Germline and Somatic Mutations of Suppressor of fused predispose to medulloblastoma through failure to suppress sonic hedgehog and WNT signaling.
114. Yale University, New Haven, Connecticut, Dec 6, 2001 - Dec 7, 2001. Voynick Lecture.
115. Henry Ford Hospital, Hermelin Brain Tumor Center, Detroit, MI, Dec 19, 2001. Classification and management of brainstem tumors in children.
116. University of Wisconsin, Madison, Wisconsin, Feb 1, 2002 - Feb 2, 2002. Medulloblastoma from a difficult past to a promising future.
117. Richard Lende Winter Neurosurgery Conference, Salt Lake City, Utah, Feb 2, 2002 - Feb 7, 2002. Current Classification and Management of Brainstem Tumors in Children (Kasden Lectureship).
118. Richard Lende Winter Neurosurgery Conference, Salt Lake City, Utah, Feb 2, 2002 - Feb 7, 2002. New Techniques in the Surgery of Lesional and Non-Lesional Epilepsy.
119. Richard Lende Winter Neurosurgery Conference, Salt Lake City, Utah, Feb 2, 2002 - Feb 7, 2002. The Harold Hoffman Slide Collection: Images from 35 years of pediatric neurosurgical experience.
120. 2002 AANS Annual Meeting, Chicago, Chicago, IL, Apr 6, 2002 - Apr 13, 2002. Update on Tumors for the General Neurosurgeon.
121. Little People of Ontario, 2002 Spring Medical Conference, Guelph, Ontario, Apr 20, 2002. Neurosurgical Implications of Achondroplasia.
122. University of Pittsburgh School of Medicine, Pittsburgh, PA, Apr 24, 2002 - Apr 25, 2002. Epilepsy Surgery in Children-Current Practice at the Hospital for Sick Children.
123. University of Pittsburgh School of Medicine, Pittsburgh, PA, Apr 24, 2002 - Apr 25, 2002. Molecular Basis of Neurosurgical Disease.
124. The 4th International Congress on Meningiomas and 4th International Congress on Cerebral Venous System combined with Annual Meeting of the Turkish Neurosurgical Society, Istanbul, Turkey, Jun 4, 2002 - Jun 8, 2002. Recent advances in molecular biology of meningiomas.
125. Canadian Society of Plastic Surgeons, Saint John, New Brunswick, Jun 12, 2002 - Jun 15, 2002. Surgical management of unicoronal synostosis (UCS) in infancy.
126. 37th Meeting of the Canadian Congress of Neurological Sciences, Vancouver, BC, Jun 18, 2002 - Jun 22, 2002. Complications of invasive subdural grid monitoring in children undergoing epilepsy surgery.
127. 37th Meeting of the Canadian Congress of Neurological Sciences, Vancouver, BC, Jun 18, 2002 - Jun 22, 2002. Measuring the health status outcome of children with hydrocephalus.
128. Albany Medical College, Albany, Albany, NY, Jul 10, 2002 - Jul 11, 2002. Molecular Biology in the New Millennium.
129. International Society of Pediatric Oncology, Porto, Portugal, Sep 18, 2002 - Sep 21, 2002. Advances in Neurosurgery.
130. Congress of Neurological Surgeons, Philadelphia, PA, Sep 21, 2002 - Sep 26, 2002. Advances in Pediatric Neuro-Oncology Surgery.
131. Congress of Neurological Surgeons, Philadelphia, PA, Sep 21, 2002 - Sep 26, 2002. Complications of Invasive Subdural Grid Monitoring in Children.
132. Congress of Neurological Surgeons, Philadelphia, PA, Sep 21, 2002 - Sep 26, 2002. Moderator for Luncheon Seminar "Posterior Fossa and brainstem Tumors: Approaches and Complication Avoidance.
133. American Academy of Neurological Surgery, Scottsdale, Arizona, Oct 16, 2002 - Oct 19, 2002. Multiple Subpial Transections in the Treatment of Pediatric Epilepsy.
134. RUNN Course, Woods Hole, MA, Oct 29, 2002 - Oct 30, 2002. Molecular Biology of Brain Tumors.
135. Annual 19th J. Garber Galbraith Lecture, Birmingham, Alabama, Nov 7, 2002 - Nov 9, 2002. Neurosurgical Treatment of the Child with Epilepsy: The Hospital for Sick Children.

136. Annual 19th J. Garber Galbraith Lecture, Birmingham, Alabama, Nov 7, 2002 - Nov 9, 2002. The Harold J. Hoffman Slide Collection: Images from 35 years of Pediatric Neurosurgical Experience.
137. The Brain Tumor Foundation, New York, NY, Nov 17, 2002. Current Advances in Brain Tumor Research.
138. AANS/CNS Pediatric Section Annual Meeting, Scottsdale, Arizona, Dec 4, 2002 - Dec 7, 2002. Adenoviral BDNF Induces Neostriatal Neuronal Recruitment from Endogenous Progenitor Cells in Transgenic R6/2 Huntington Mice.
139. AANS/CNS Pediatric Section Annual Meeting, Scottsdale, Arizona, Dec 4, 2002 - Dec 7, 2002. Immuno-Gene Therapy for Malignant Pediatric Brain tumor.
140. Society of Neurological Surgeons, New York, NY, Dec 7, 2002. Society of Neurological Surgeons Committee Meeting at the Stanhope Hotel.
141. Pediatric Brain Tumor Consortium, St. Jude Children's Hospital, St. Louis, MO, Jan 7, 2003. Scientific Committee Advisory Board.
142. University of San Francisco, San Francisco, CA, Jan 8, 2003 - Jan 9, 2003. Second Annual Charles B. Wilson Lecturer in Neurosurgery.
143. University of Illinois College of Medicine at Peoria, Peoria, IL, Apr 3, 2003 - Apr 4, 2003. The Molecular Basis of Pediatric Brain Tumors.
144. 2003 Charles M. Henderson Lecture, Baltimore, MD, Apr 15, 2003 - Apr 16, 2003. Classification and Management of Brainstem Tumors in Children.
145. Visiting Professor University of Miami, Department of Neurological Surgery, Miami, Florida, Jun 14, 2003. Molecular pathogenesis of pediatric brain tumors.
146. Visiting Professor University of Miami, Department of Neurological Surgery, Miami, Florida, Jun 14, 2003. Present and future management of craniopharyngioma in children.
147. Donaghy Research Day, The University of Vermont, Burlington, Vermont, Jun 26, 2003 - Jun 28, 2003. New Advances in Pediatric Neurosurgery.
148. International Society for Pediatric Neurosurgery 31st Annual Meeting, Monte Carlo, Monaco, Sep 14, 2003 - Sep 18, 2003. Result of stereotactic radiosurgery (SRS) for brain arteriovenous malformations in children.
149. 31st Annual Meeting International Society of Pediatric Neurosurgery, Monte Carlo, Monaco, Sep 14, 2003 - Sep 18, 2003. The molecular pathogenesis of pediatric brain tumors.
150. 10th Anniversary b.r.a.i.n.child, Mississauga, Ontario, Sep 20, 2003. 10th Annual Pediatric Brain Tumor Conference.
151. International Society of Craniofacial Surgery Xth International Congress, Monterey, CA, Sep 23, 2003. Comparison of Early Extended Strip Craniectomy (ESC) Versus Total Cranial Vault Reshaping (TCV) in Sagittal Synostosis: CT and Clinical Assessment.
152. International Society of Craniofacial Surgery Xth International Congress, Monterey, CA, Sep 23, 2003. Complications Following the Surgical Management of Non-Syndromic Unicoronal Synostosis in Infancy.
153. Congress of Neurological Surgeons 53rd Annual Meeting, Denver, Colorado, Oct 18, 2003 - Oct 24, 2003. Advances in the Surgical Management of Epilepsy.
154. Congress of Neurological Surgeons 53rd Annual Meeting, Denver, Colorado, Oct 18, 2003 - Oct 24, 2003. Moderator: Section on Tumors.
155. Congress of Neurological Surgeons 53rd Annual Meeting, Denver, Colorado, Oct 18, 2003 - Oct 23, 2003. Multimodality Treatment of Malignant Gliomas.
156. Annual Meeting of American Association of Neurological Surgeons, Colonial Williamsburg, Virginia, Oct 29, 2003 - Nov 1, 2003. Identification of Differentially Expressed and Developmentally Regulated Genes in Medulloblastoma Using Suppression Subtractive Hybridization.
157. 33rd Annual Visiting Kahn Professor, University of Michigan, Ann Arbor, MI, Nov 7, 2003 - Nov 8, 2003. Molecular Biology of Brain Tumors.
158. RUNN (Research Update in Neuroscience for Neurosurgeons), Woodshole, MA, Nov 11, 2003 - Nov 12, 2003. Molecular Biology of Brain Tumors.

159. Society of Neuro-Oncology Annual Meeting, Keystone, Colorado, Nov 13, 2003 - Nov 18, 2003. Management of Pediatric NST.
160. Recent Advances in Pediatric Neurosciences Conference King Faisal Specialist Hospital & Research Center, Riyadh, Kingdom of Saudi Arabia, Mar 6, 2004 - Mar 8, 2004. Advances in Molecular Genetics of Brain Tumors in Children.
161. Recent Advances in Pediatric Neurosciences Symposium, Riyadh, Saudi Arabia, Mar 6, 2004 - Mar 8, 2004. Neurosurgical Management of Brain Stem Tumors in Children.
162. Jacobson Lecture, State University of New York, Upstate Medical University, Syracuse, NY, Mar 12, 2004. Malignant Gliomas and the Brain Microenvironment.
163. 2004 American Association of Neurological Surgeons, Orlando, Florida, May 1, 2004 - May 6, 2004. Biology of Gliomas.
164. 2004 American Association of Neurological Surgeons, Orlando, Florida, May 1, 2004 - May 6, 2004. Bittner Lectureship: The Pathogenesis of Human Brain Tumors: Clues from Disordered Neuroembryogenesis.
165. 2004 American Association of Neurological Surgeons, Orlando, Florida, May 1, 2004 - May 6, 2004. Current treatment options for pediatric epilepsy.
166. 2004 American Association of Neurological Surgeons, Orlando, Florida, May 1, 2004 - May 6, 2004. Mutations in the Sonic Hedgehog Pathway Enhance Medulloblastoma Formation.
167. 2004 American Association of Neurological Surgeons, Orlando, Florida, May 1, 2004. State-of-the-Art Treatments for Low Grade Gliomas.
168. 2004 American Association of Neurological Surgeons Annual Meeting, Orlando, Florida, May 1, 2004 - May 6, 2004. The Management and expected outcomes for patients with craniopharyngiomas.
169. Visiting Professor Neuro-Oncology Update at the University of Tennessee, Tennessee, Memphis, May 16, 2004 - May 17, 2004. Present and Future Management of Medulloblastoma in Children.
170. New York Brain Tumor Symposium, New York, USA, May 20, 2004 - May 21, 2004. Current and Future Management of Malignant Brain Tumors.
171. Brazilian Congress of Neurological Surgery, Goiania, Brazil, Sep 4, 2004 - Sep 9, 2004. Combined use of fMR, cortical mapping, stereotaxy and frameless stereotaxy for resection of lesions in eloquent brain areas of a child.
172. Brazilian Congress of Neurological Surgery, Goiania, Brazil, Sep 4, 2004 - Sep 9, 2004. Pineal Tumors.
173. Brazilian Congress of Neurological Surgery, Goiania, Brazil, Sep 4, 2004 - Sep 9, 2004. Rationalization for early indication of epilepsy surgery in childhood.
174. Brazilian Congress of Neurological Surgery, Goiania, Brazil, Sep 4, 2004 - Sep 9, 2004. Round Table discussion: Hydrocephalus in childhood.
175. Brazilian Congress of Neurological Society, Goiania, Brazil, Sep 4, 2004 - Sep 9, 2004. Sellar and Suprasellar Tumors in Childhood and adolescence.
176. Brazilian Congress of Neurological Surgery, Goiania, Brazil, Sep 4, 2004 - Sep 9, 2004. Treatment of nervous system tumors in childhood: What does the future hold in store for us.
177. Brain Tumor Seminar Royal Children's Hospital in Melbourne, Melbourne, Australia, Sep 17, 2004 - Sep 18, 2004. Disturbances in developmental signalling pathways predispose to medulloblastoma.
178. Brain Tumor Seminar Royal Children's Hospital in Melbourne, Melbourne, Australia, Sep 17, 2004 - Sep 18, 2004. Neurosurgical management of epilepsy in children.
179. Neurosurgical Society of Australia 2004 Annual Meeting, Newcastle New South Wales, Australia, Sep 19, 2004 - Sep 22, 2004. Epilepsy surgery in children: The Hospital for Sick Children Experience.
180. Neurosurgical Society of Australia 2004 Annual meeting, Newcastle New South Wales, Australia, Sep 19, 2004 - Sep 22, 2004. Jamieson Lecture: The Evolution of neurosurgical Techniques for the child with a brain tumor.

181. Neurosurgical Society of Australia 2004 Annual Meeting, Newcastle, New South Wales, Australia, Sep 19, 2004 - Sep 22, 2004. Neurosurgical Approaches to Brainstem tumors in children.
182. 45th Annual Turner-Gibson Memorial Oration Pediatric Society of Queensland & Pediatric Division RACP, Queensland, Australia, Sep 24, 2004. Advances in the diagnosis and treatment of brain tumors.
183. WFNS Tumor Section Meeting 2004, Jaipur, India, Oct 11, 2004 - Oct 13, 2004. Avoiding Complications in Posterior Fossa Surgery.
184. WFNS Tumor Section Meeting 2004, Jaipur, India, Oct 11, 2004 - Oct 13, 2004. Brainstem Tumors in Children.
185. WFNS Tumor Section Meeting 2004, Jaipur, India, Oct 11, 2004 - Oct 13, 2004. Improving patient outcome while minimising morbidity.
186. WFNS Tumor Section Meeting 2004, Jaipur, India, Oct 11, 2004 - Oct 13, 2004. Management of Pediatric Brain tumors.
187. WFNS Tumor Section Meeting, Jaipur, India, Oct 11, 2004 - Oct 13, 2004. Molecular determinants of glioma invasion.
188. Neuroscience Research Day October 25th, 2004, Toronto, Ontario, Oct 25, 2004. The Pathophysiology of Seizures and its Relationship to Grid Surgery.
189. RUNN Course, Woods Hole, Boston, Oct 31, 2004 - Nov 1, 2004. Developmental Signaling Pathways and Human Brain Tumors.
190. 1st International Levantine Forum, Advances in Neurological Surgery, Bari, Italy, Nov 6, 2004 - Nov 9, 2004. Magistral Lecture: "Current and Future Management of Brain Tumors in Children".
191. 1st International Levantine Forum "Advances in Neurological Surgery", Bari, Italy, Nov 6, 2004 - Nov 9, 2004. Separation of Craniopagus Twins: The Hospital for Sick Children Experience.
192. 1st International Levantine Forum, Advances in Neurological Surgery, Bari, Italy, Nov 6, 2004 - Nov 9, 2004. The Neurosurgical Management in Epilepsy in Children.
193. Canadian Syringomyelia Network, Toronto, Ontario, Ontario, Nov 12, 2004. A History of Pediatric Neurosurgery, and the Treatment of Syringomyelia and Chiari Malformation.
194. Visiting Professor, Department of Neurosurgery, CINN-RUSH University Medical Center, Chicago, IL, Mar 3, 2005. Malignant Brain Tumors: Past Present and Future.
195. Division of Neurosurgery, Dalhousie University, Halifax, NS, Mar 9, 2005. Malignant Brain Tumors: Past Present and Future.
196. University of Pennsylvania, Sandie Altman Memorial Lecture, Philadelphia, PA, Mar 24, 2005. Neurosurgical Management of Rolandic Epilepsy.
197. Epilepsy Symposium, Michener Institute, Toronto, Ontario, Apr 2, 2005. Surgery in Epilepsy.
198. American Association of Neurological Surgeons, New Orleans, Louisiana, Apr 15, 2005 - Apr 21, 2005. Current Treatment Options for Pediatric Epilepsy.
199. American Association of neurological Surgeons, New Orleans, Louisiana, Apr 15, 2005 - Apr 21, 2005. Farber Award: From Mice to Men.
200. American Association of Neurological Surgeons, New Orleans, Louisiana, Apr 15, 2005 - Apr 21, 2005. Moderator, Special Scientific Session- Neurosurgery with the masters: In my Experience.
201. American Association of Neurological Surgeons, New Orleans, Louisiana, Apr 15, 2005 - Apr 21, 2005. Plenary Session II: Moderator.
202. American Association of Neurological Surgeons, new Orleans, Louisiana, Apr 15, 2005 - Apr 21, 2005. Tumor Neurosurgery: Meet the Experts.
203. American Association of Neurological Surgeons, New Orleans, Louisiana, Apr 15, 2005 - Apr 21, 2005. Where the Girls Aren't: Practice Patterns Amongst Women Neurosurgeons in North America.
204. Plastic Surgery Research Council, Toronto, ON, May 19, 2005. What you can dream.

205. American Society of Neuroradiology, Toronto, Ontario, May 25, 2005. Evaluation and Management of Intractable Seizure in Children.
206. Newtonbrook Secondary School, Toronto, Ontario, Jun 9, 2005. 40th Annual Newtonbrook Athletic Banquet.
207. 13th World Congress of Neurological Surgery, Marrakesh, Morocco, Jun 19, 2005 - Jun 24, 2005. Moderator: Brain Stem Tumors.
208. 13th World Congress of Neurological Surgery, Marrakesh, Morocco, Jun 19, 2005 - Jun 24, 2006. Moderator: Management of Craniopharyngioma.
209. Children's Hospital, Brigham & Women's Hospital, Harvard Medical School, Boston, MA, Jun 30, 2005. Donald D. Matson Lecture: The Treatment of Medulloblastoma: Past, Present and Future.
210. Weil Medical College of Cornell University, New York City, Jul 12, 2005 - Jul 13, 2005. Nina Werblow Lecture Series: Management of malignant brain tumors: Past present and future.
211. The Balkin Family Lecture, Boston, MA, Sep 8, 2005. Medulloblastoma: A quest for novel therapeutic targets.
212. ISPN, Vancouver, BC, Sep 12, 2005 - Sep 14, 2005. Epilepsy.
213. ISPN, Vancouver, BC, Sep 12, 2005 - Sep 14, 2005. Session 3-Miscellaneous.
214. VSM MedTech-Keynote Speaker at ISPN, Vancouver, BC, Sep 12, 2005 - Sep 14, 2005. Utility of MEG in functional mapping pediatric epilepsy surgery.
215. National Institute of Neurological Disorders and Stroke, Bethesda, MD, Sep 18, 2005 - Sep 20, 2005. NINDS Board of Scientific Counselors.
216. World Academy of Neurological Surgery (WANS), Japan, Oct 2, 2005 - Oct 4, 2005. Neurosurgical management of rolandic epilepsy.
217. 64th Annual Meeting of the Japan Neurosurgical Society, Yokohama, Japan, Oct 4, 2005 - Oct 6, 2005. Complex spinal malformations in the child with Spina Bifida: Neurosurgical implications.
218. 64th Annual Meeting of the Japan Neurosurgical Society, Yokohama, Japan, Oct 4, 2005 - Oct 6, 2005. Neurosurgical approaches to intraventricular tumors in children.
219. Congress of Neurological Surgeons 55th Annual Meeting, Boston, Massachusetts, Oct 9, 2005 - Oct 11, 2005. Moderator: Malignant Gliomas: Current surgical and adjuvant strategies.
220. Research update in newuroscience for neurosurgeons (RUNN), Woodshole, Boston, Oct 23, 2005 - Oct 24, 2005. Developmental signaling pathways and brain tumors.
221. 4th Annual Meeting, ASNO, Taipei, Taiwan, Nov 2, 2005 - Nov 6, 2005. Molecular Diagnosis, Targeting, and Management of Paediatric Brain Tumours.
222. Northwestern University Academic Day Lecturer, Chicago, Illinois, Dec 9, 2005. Novel Treatments for Medulloblastoma: Clues From Neuroembryogenesis.
223. Johns Hopkins Department of Neurosurgery, Baltimore, MD, Jan 4, 2006 - Jan 5, 2006. Medulloblastoma: From a Difficult Past to a Promising Future.
224. Ministry of Health Manpower Development Plan, Singapore, Jan 14, 2006 - Jan 22, 2006. Lectures: 1. Running an Academic Neurosurgery Program in North America, 2. Molecular Biology of Pediatric Brain Tumours, 3. Resident training and Future Trends, 4. Glioma Update, 5. Tumour Surgery, 6. Molecular Biology of Brain Tumours, 7. Low-Grade Gliomas, 8. Research in Toronto: The Role of Small Cytoskeletal GTPases Regulating Astrocytoma Invasion, 9. Neuronavigation, 10. Pediatric Epilepsy, 11. Brainstem Gliomas, 12. Craniopharyngiomas.
225. ASPN 2006 Annual Meeting, Great Exuma, Bahamas, Jan 29, 2006 - Feb 3, 2006. Scientific Session IV: Epilepsy "Neurosurgical Management of Rolandic Epilepsy in Children".
226. MD Anderson Cancer Centre, Houston, TX, Feb 28, 2006 - Mar 1, 2006. "Brain Tumours in Children: Current and Future Perspectives", Guest Speaker.
227. Preston Robert Tisch Brain Tumor Centre, Duke University, Durham, North Carolina, Mar 22, 2006. Medulloblastoma: A quest for novel therapeutic targets.
228. American Association of Neurological Surgeons, San Francisco, California, Apr 20, 2006 - Apr 27, 2006. Lecture "Craniopharyngiomas", April 23, 2006.

229. AANS, San Francisco, California, California, Apr 20, 2006 - Apr 27, 2006. MEG Program "Role of MEG in Pediatric Epilepsy Surgery and Functional Brain Mapping", April 25, 2006.
230. AANS, San Francisco, California, California, Apr 20, 2006 - Apr 27, 2006. Update on Tumours Lecture "Biology of Gliomas" April 23, 2006.
231. International Brain Tumor Research and Therapy Meeting, PBTF, Silverado Resort, Napa Valley, San Francisco, Apr 27, 2006 - Apr 30, 2006. MEG Program "Utility of MEG in Functional Brain Mapping and Neuronavigation-assisted Tumor Resections in Children", April 28, 2006.
232. Tokushima University, Tokushima, Japan, May 7, 2006 - May 9, 2006. Human Gliomas: State-of-the-art Treatment and Future Therapies.
233. Hamamatsu University School of Medicine, Hamamatsu, Japan, May 10, 2006 - May 11, 2006. Medulloblastoma - A quest for novel therapeutic targets.
234. National Center for Child Health and Development, Tokyo, Japan, May 11, 2006. Recent Advancements for Brain Tumour Surgery and Research.
235. Japanese Congress of Neurological Surgeons, 26th Annual Meeting, Tokyo, Japan, May 12, 2006 - May 14, 2006. Keynote Speaker, Malignant Brain Tumours: On the cutting edge of novel treatment strategies.
236. Japanese Congress of Neurological Surgeons, 26th Annual Meeting, Tokyo, Japan, May 12, 2006 - May 14, 2006. Plenary Lecture, The Neurosurgical Management of Epilepsy in Children: The Hospital for Sick Children Experience.
237. Nagoya University, Nagoya, Japan, May 14, 2006 - May 15, 2006. Recent advancements in the treatment strategy of medulloblastoma.
238. Senior Society of Neurological Surgeons, Annual Meeting, Durham, North Carolina, May 21, 2006 - May 23, 2006. Scientific Session, Recruitment of Women in Neurosurgery, May 23, 2006.
239. Canadian Congress of Neurological Sciences Annual Meeting, Montreal, Quebec, Jun 13, 2006 - Jun 17, 2006. Standard of Care for Paediatric Medulloblastoma June 14, 2006.
240. Ottawa Health Research Institute, Ottawa, Ontario, Jun 16, 2006. Astrocytoma invasiveness: Molecular mechanisms at the leading edge.
241. University of Iowa Hospitals and Clinics, Iowa City, Iowa, USA, Aug 24, 2006 - Aug 25, 2006. George Perret Memorial Lecturer The Neurosurgical management of Rolandic Epilepsy in Children.
242. Congress of Brazilian Neurosurgery, Florianopolis, Brazil, Sep 14, 2006 - Sep 19, 2006. 26th Congress of Brazilian Neurosurgery Meeting, Lectures Advances in treatment of childhood CNS tumors, Pineal Region Tumors, Molecular biology and future perspectives - Malignant gliomas, Cerebral gliomas: Current management and future.
243. Hospital do Clinicas Porto Alegre, Porto Alegre, Brazil, Sep 14, 2006 - Sep 15, 2006. Visiting Professor Lecture Medulloblastoma: A quest for novel therapeutic targets.
244. Department of Neurosurgery, University of Calgary, Calgary, Alberta, Sep 28, 2006. Guest Lecturer Grand Rounds Craniopharyngiomas: Time for a change in management strategies, Temporal lobectomy for intractable epilepsy in children: An analysis of outcomes in 126 children.
245. Alberta Neurosurgical Society, Banff, Alberta, Sep 29, 2006 - Oct 1, 2006. Visiting Professor, Neurosurgery resident research: A new paradigm shift, Brainstem tumors in children: Diagnosis, classification and management.
246. Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois, Oct 7, 2006 - Oct 12, 2006. General Scientific Session Human Malignant Brain Tumours: Two Steps Forward.
247. University of Alberta, Edmonton, Alberta, Oct 12, 2006 - Oct 14, 2006. Janes Visiting Professor, Lecture Malignant Brain Tumours: Past, Present, and Future Perspectives, Management Options for Intractable Rolandic Epilepsy in Children.
248. American Academy of Neurological Surgery Annual Meeting, Ritz-Carlton Reynolds Plantation, Greensboro, Georgia, Oct 18, 2006 - Oct 21, 2006. Temporal Lobe Surgery for Intractable Epilepsy in Children: An Analysis of Outcomes in 126 Children.

249. Society of Neurological Surgeons, Woodshole, Massachusetts, Oct 24, 2006 - Oct 25, 2006. RUNN Course. Astrocytoma Invasiveness: Molecular mechanisms from the leading edge.
250. 12th Annual WB & MH Chung Research Day at University of British Columbia, Vancouver, BC, Nov 6, 2006 - Nov 8, 2006. Astrocytoma invasiveness: Molecular Mechanisms from the Leading Edge.
251. Neurology and Neurosurgery Update Conference: A Celebration of Twenty Years of Clinical Neuroscience at Brown University, Providence, RI, Nov 10, 2006 - Nov 11, 2006. Malignant Brain Tumors: From a Difficult Past to a Promising Future.
252. The Hospital for Sick Children Divisional Rounds, Toronto, Ontario, Nov 30, 2006. Malignant Brain Tumours: From a Difficult Past to a Promising Future.
253. Case Western Reserve University School of Medicine, Cleveland, OH, Feb 13, 2007 - Feb 14, 2007. Frank Nulsen Lectureship - Medulloblastomas: New Insights From Developmental Signaling Pathways.
254. 6th Annual Canadian Pediatric Neurosurgery Meeting at Horseshoe Valley, Barrie, ON, Feb 21, 2007 - Feb 23, 2007. National Registry of Childhood Brain Tumors.
255. Visiting Professor, Children's Hospital in Los Angeles, Los Angeles, CA, Feb 26, 2007 - Feb 28, 2007. Oncology Grand Rounds, Malignant Brain Tumors in Children: Past, Present and Future Perspectives.
256. St. Jude's Research Hospital, Memphis, TN, Mar 6, 2007 - Mar 7, 2007. Medulloblastoma: A Quest for Novel Therapeutic Targets.
257. Drug Resistant Epilepsy Program Meeting, Beer-Sheva, Israel, Mar 16, 2007 - Mar 22, 2007. Surgical Management of Rolandic Epilepsy.
258. Drug Resistant Epilepsy Program Meeting, Beer-Sheva, Israel, Mar 16, 2007 - Mar 22, 2007. The Role of MEG in Epilepsy Surgery.
259. AANS Annual Meeting, Washington, DC, Apr 14, 2007 - Apr 18, 2007. Craniopharyngiomas.
260. AANS Annual Meeting, Washington, DC, Apr 14, 2007 - Apr 18, 2007. Update on Tumors for the General Neurosurgeon: "Biology of Gliomas".
261. 50th Anniversary of Neurosurgery, Yonsei University, Seoul, Korea, May 18, 2007 - May 19, 2007. Medulloblastoma: Past, Present, and Future Perspectives.
262. 2nd Biennial WANS Meeting, Verona, Italy, Jun 14, 2007 - Jun 16, 2007. Rolandic Epilepsy in Children: Surgical Management and the Role of MEG Temporal Lobectomy.
263. 2nd Biennial WANS Meeting, Verona, Italy, Jun 14, 2007 - Jun 16, 2007. Surgery for malignant brain tumors: A look to the near future.
264. 2nd Biennial WANS Meeting, Verona, Italy, Jun 14, 2007 - Jun 16, 2007. Temporal Lobectomy in Children: Results from 120 cases at the Hospital for Sick Children.
265. CNSF, Edmonton, Alberta, Jun 20, 2007 - Jun 22, 2007. Pediatric Intractable Epilepsy: Surgery.
266. AANS, Washington, DC, Jul 12, 2007 - Jul 14, 2007. Executive Committee Meeting.
267. Congress of Neurological Surgeons, San Diego, CA, Sep 14, 2007 - Sep 18, 2007. Innovative functional mapping technique for resecting cortical tumors in children.
268. Congress of Neurological Surgeons, San Diego, CA, Sep 14, 2007 - Sep 18, 2007. Pediatric Brain Tumor Update.
269. 11th Frank P. Smith Visiting Professor, University of Rochester, Rochester, NY, Oct 4, 2007 - Oct 5, 2007. Human Malignant Brain Tumor: Past, Present and Future Perspectives.
270. CNS 36th Annual Meeting, Quebec, ON, Oct 10, 2007. Central Nervous System Symposium: Initial Management.
271. RUNN Course, Woodshole, Boston, Oct 23, 2007 - Oct 24, 2007. Astrocytoma Invasiveness: Molecular Mechanism from the Leading Edge.
272. American Association of Neurological Surgeons, Chicago, IL, Oct 25, 2007 - Oct 27, 2007. Board of Directors meeting.
273. Neurosurgery Masters Course, Dubai, United Arab Emirates, Nov 10, 2007 - Nov 11, 2007. Current and Future Management of Malignant Brain Tumors in Children.
274. Neurosurgery Masters Update Meeting, Dubai, United Arab Emirates, Nov 10, 2007 - Nov 11, 2007. Hydrocephalus and NPH: Management Strategies.

275. Neurosurgery Masters Update Meeting, Dubai, United Arab Emirates, Nov 10, 2007 - Nov 11, 2007. Intractable Epilepsy in Children: Diagnosis and Surgical Decision Making.
276. The Sugita Memorial Workshop, Matsumoto, Japan, Nov 16, 2007 - Nov 22, 2007. Workshop in Matsumoto.
277. 12th Asia Australian Congress of Neurological Surgeons, Nagoya, Japan, Nov 18, 2007 - Nov 22, 2007. Functional Neurosurgery: Video Seminar.
278. 12th Asia Australian Congress of Neurological Surgeons, Nagoya, Japan, Nov 18, 2007 - Nov 22, 2007. Glioma: Quo Vadis.
279. 12th Asia Australian Congress of Neurological Surgeons, Nagoya, Japan, Nov 18, 2007 - Nov 22, 2007. Quality Adjusted Life Years.
280. 12th Asia Australian Congress of Neurological Surgeons, Nagoya, Japan, Nov 19, 2007 - Nov 22, 2007. Difficult Neurosurgery.
281. 12th Asia Australian Congress of Neurological Surgeons, Nagoya, Japan, Nov 19, 2007 - Nov 22, 2007. Medulloblastomas: Novel genetic approaches impacting on outcome.
282. 12th Asia Australian Congress of Neurological Surgeons, Nagoya, Japan, Nov 20, 2007 - Nov 22, 2007. Session Video Seminar: Management of Low Grade Gliomas of the Brainstem in Children.
283. 12th Asia Australian Congress of Neurological Surgeons, Nagoya, Japan, Nov 21, 2007 - Nov 22, 2007. Luncheon Seminar: The Future of Neurosurgical Oncology: The role of a Neurosurgeon.
284. Memorial International Neuro-Oncology Forum, Nagoya, Japan, Nov 22, 2007. Medulloblastoma: Current best treatment and future directions.
285. AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting, South Beach, Miami, Nov 26, 2007 - Nov 27, 2007. Invasive recording in pediatric epilepsy.
286. AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting, South Beach, Miami, Nov 26, 2007 - Nov 27, 2007. Pediatric Surgery Update: Clinical Aspects.
287. AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting, South Beach, Miami, Nov 27, 2007. Pediatric Epilepsy Surgery: Case Presentations.
288. American Society of Pediatric Neurosurgeons, Los Cabos, Mexico, Feb 4, 2008 - Feb 7, 2008. Moderator Symposium 1: Epilepsy.
289. American Society of Pediatric Neurosurgeons, Los Cabos, Mexico, Feb 6, 2008 - Feb 7, 2008. The Role of Fascin in the Migration and Invasiveness of Malignant Gliomas.
290. Visiting Professor Shreveport Medical School, Shreveport, LA, Apr 16, 2008. Management of rolandic epilepsy in children: Surgical advances.
291. Albany Medical College, Albany, Albany, NY, May 7, 2008 - May 8, 2008. Neurosurgical Management of Rolandic Epilepsy in Children.
292. Visiting Professor Louisville, Louisville, Louisville, May 13, 2008. Medulloblastoma: Current Treatment and Future Perspectives.
293. 13th Biennial Canadian Neuro-Oncology Meeting, Banff, AL, May 16, 2008. Plenary Session: Neuro-Oncology Case Conference.
294. Canadian Brain Tumour Consortium, Banff, Alberta, May 17, 2008. Ninth Annual General Meeting of Members of the Canadian Brain Tumour Consortium.
295. 43rd Annual Congress of the Canadian Neurological Sciences Federation, Victoria, BC, Jun 17, 2008 - Jun 20, 2008. Hemispherectomy in Children: Role of pathology and surgical technique in predicting patient outcome.
296. 43rd Annual Congress of the Canadian Neurological Sciences Federation, Victoria, BC, Jun 17, 2008 - Jun 20, 2008. Pediatric intracranial epidermoid tumours: The Hospital for Sick Children experience.
297. 43rd Annual Congress of the Canadian Neurological Sciences Federation, Victoria, BC, Jun 17, 2008 - Jun 20, 2008. The Paediatric neurosurgical implications of achondroplasia.
298. 13th International Symposium on Pediatric Neuro-Oncology, Chicago, IL, Jun 30, 2008 - Jul 2, 2008. Moderator: Biology III: New Mouse Models of Pediatric Brain Tumors Session.
299. 13th International Symposium on Pediatric Neuro-Oncology, Chicago, IL, Jun 30, 2008 - Jul 2, 2008. Moderator: Intraoperative Monitoring and Imaging: Monitoring During Epilepsy and Eloquent Cortex Surgery.

300. Acibadem University School of Medicine, Istanbul, Turkey, Jul 27, 2008 - Aug 7, 2008. How to Build a Brain Tumor Centre.
301. Acibadem University School of Medicine, Istanbul, Turkey, Jul 27, 2008 - Aug 7, 2008. Pediatric Neurosurgery Oncology lesson Learned.
302. American Academy of Neurological Surgeons Meeting, Sedona, AZ, Sep 10, 2008 - Sep 14, 2008. KLF4 as a Novel Tumor Suppressor Gene in Medulloblastoma.
303. XXVII Brazilian Neurosurgical Congress Meeting, Iguassu Falls, Brazil, Sep 15, 2008 - Sep 17, 2008. Medulloblastoma: Present and Future Perspectives.
304. XXVII Brazilian Neurosurgical Congress Meeting, Iguassu Falls, Brazil, Sep 15, 2008 - Sep 17, 2008. Neurosurgical Management of Brainstem Tumors in Children.
305. XXVII Brazilian Neurosurgical Congress Meeting, Iguassu Falls, Brazil, Sep 16, 2008 - Sep 17, 2008. Temporal Lobectomy in Children: management Issues and Outcomes.
306. XXVII Brazilian Neurosurgical Congress Meeting, Iguassu Falls, Brazil, Sep 16, 2008 - Sep 17, 2008. The Role of Magnetoencephalography in Pediatric Epilepsy Surgery.
307. XXVII Brazilian Neurosurgical Congress Meeting, Iguassu Falls, Brazil, Sep 17, 2008. Pediatric Epilepsy Surgery: The Hospital for Sick Children Experience.
308. XXVII Brazilian Neurosurgical Congress Meeting, Iguassu Falls, Brazil, Sep 18, 2008. Clinical Trials are Authoritative.
309. Annual Congress of Neurological Surgeons Meeting, Orlando, FL, Sep 20, 2008 - Sep 25, 2008. Practical Course PC32: Pediatric Brain Tumor Update.
310. ISPN meeting, Cape Town, South Africa, Oct 12, 2008 - Oct 16, 2008. An Epigenetic Wide Screen Identifies SPINT2 as a Tumor Suppressor Gene in Medulloblastoma.
311. ISPN Meeting, Cape Town, South Africa, Oct 12, 2008 - Oct 16, 2008. Combination of MEG and DRT1 Tractography Detect Novel White Matter Tract Formation in the Afflicted Hemispheres of Pediatric Patients with Intractable Epilepsy.
312. ISPN Meeting, Cape Town, South Africa, Oct 12, 2008 - Oct 16, 2008. Resection of Symptomatic Peri-Rolandic Lesions in Children.
313. ISPN meeting in Capetown, Capetown, South Africa, Oct 17, 2008. Epilepsy and brain tumor surgery in eloquent areas: The role of intraoperative neurophysiology.
314. RUNN Course, Woodshole, Boston, Oct 24, 2008. Medulloblastoma: From a Difficult Past to a Promising Future.
315. 8th Annual Neuroscience Day, The Hospital for Sick Children, Toronto, Ontario, Nov 11, 2008. Grid Surgery Placement, Surgical Perspective.
316. Dartmouth University Medical Center, Lebanon, NH, Nov 13, 2008. Novel Genetic and Epigenetic Targets for Childhood Medulloblastoma.
317. ASPN Annual Meeting, Kohala Island, Hawaii, Jan 25, 2009 - Jan 28, 2009. Neurosurgical implications of achondroplasia.
318. Israel Neurosurgical Society Meeting, Dead Sea, Israel, Mar 2, 2009 - Mar 8, 2009. Hemispherectomy in Children: Role of pathology and surgical technique in predicting patient outcome.
319. Israel Neurosurgical Society, Dead Sea, Israel, Mar 2, 2009 - Mar 8, 2009. Pediatric Neurosurgical Oncology: Lessons Learned.
320. Society of Neurological Surgeons, Salt Lake City, UT, May 16, 2009 - May 19, 2009. Incorporating translational research into clinical care.
321. Society of Neurological Surgeons, Salt Lake City, Utah, May 16, 2009. Neurosurgical Resident Education: The Canadian Landscape.
322. 37th Annual meeting of JSPN, Osaka, Japan, Jun 6, 2009 - Jun 10, 2009. Pediatric neurosurgical oncology: Lessons learned.
323. The 37th Annual Meeting of the Japanese Society for Pediatric Neurosurgery, Osaka, Japan, Jun 10, 2009 - Jun 14, 2009. Neurosurgical Management of Rolandic Epilepsy in Children.
324. The 37th Annual Meeting of the Japanese Society for Pediatric Neurosurgery, Osaka, Japan, Jun 10, 2009 - Jun 14, 2009. Recent Advances in the Diagnosis and Management of the Child with a Brain Tumor.

325. Mount Sinai School of Medicine, New York, NY, Jun 16, 2009 - Jun 17, 2009. Medulloblastoma: Current Treatment and Future Directions.
326. Neurosurgery Upadte 2009 in Wine Country, San Francisco, CA, Jul 31, 2009. Epilepsy in Children: "Technical Advances".
327. Neurosurgery Update 2009 in Wine Country, San Francisco, CA, Aug 1, 2009. Pediatric Neurosurgical Oncology: What You Need to Know.
328. XIV World Congress of Neurosurgery, Boston, MA, Aug 30, 2009. Genetic Syndromes and Pediatric Brain Tumors.
329. XIV WFNS World Congress of Neurosurgery, Boston, MA, Aug 31, 2009. Pediatric Neurosurgery: A World of Change.
330. XIV World Congress of Neurosurgery, Boston, MA, Sep 1, 2009. Moderator: Epilepsy in Children.
331. Wake Forest University School of Medicine BTCOE Retreat, Winston-Salem, NC, Sep 11, 2009. Present and Future Management of Malignant Brain Tumors.
332. Hospital for Sick Children Foundation, Toronto, Ontario, Sep 15, 2009. A Day in the Life of Dr. Rutka.
333. Congress of Neurological Surgeons, Honored Guest 2009, New Orleans, LA, Oct 24, 2009 - Oct 29, 2009. CNS-NSI Excellence in Global Neurosurgery.
334. Congress of Neurological Surgeons, Honored Guest 2009, New Orleans, LA, Oct 24, 2009 - Oct 29, 2009. GSS 1: Excellence in Neurosurgical Research: The Neuro-Oncology Paradigm.
335. Congress of Neurological Surgeons, Honored Guest 2009, New Orleans, LA, Oct 24, 2009 - Oct 29, 2009. GSS II: Excellence in Clinical Neurosurgery: Practice and Judgement make Perfect.
336. Congress of Neurological Surgeons, Honored Guest 2009, New Orleans, LA, Oct 24, 2009 - Oct 29, 2009. Section on Tumors-Achieving Excellence in Craniopharyngioma.
337. Congress of Neurological Surgeons, Honored Guest 2009, New Orleans, LA, Oct 24, 2009 - Oct 29, 2009. Update: Pediatric Neuro-Oncology.
338. American Academy of Neurological Surgery, Palm Beach, Florida, Nov 4, 2009 - Nov 7, 2009. The Guanine Nucleotide Exchange Factor SWAP70 Modulates Glioma.
339. European Association of Neurosurgical Societies Annual Meeting, Groningen, The Netherlands, Mar 25, 2010 - Mar 27, 2010. Simulation and Science: A forecast for the future of neurosurgery.
340. Neurological Institute of New York at Columbia University, New York, NY, Apr 15, 2010. Visiting Professor for Grand Rounds.
341. American Association of Neurological Surgeons, Philadelphia, PA, May 1, 2010 - May 5, 2010. Discussant Scientific Session: "Recurrence after gross total resection of low-grade pediatric brain tumors: The frequency and timing of post-operative imaging".
342. The 18th International Conference on Brain Tumor Research and Therapy, Travemunde, Germany, May 17, 2010 - May 20, 2010. The role of the cofin pathway in human glioma migration and invasion.

PEER REVIEWED PAPERS READ AT SCIENTIFIC MEETINGS

1. **Rutka JT, Schutz H, TerBrugge K:** CSF stress testing and CT scanning in secondary normal pressure hydrocephalus. Canadian Congress of Neurological Sciences, St. John's, Newfoundland, Jun 23, 1983.
2. **Rutka JT, Resch L, Sharpe JA:** Compressive optic neuropathy: An unusual case. Frank B. Walsh Society, Cleveland Clinic, Cleveland, Ohio, Feb 25, 1984.
3. **Rutka JT, Giblin JR, Dougherty DV, Rosenblum ML:** *In vitro*. Canadian Congress of Neurological Sciences, Montreal, Quebec, Jun 28, 1985.
4. **Rutka JT, Rosenblum ML:** Intrinsic chemosensitivity of stem cells from malignant gliomas and normal brain. International Congress of Neurological Surgeons, Toronto, Ontario, Jul 12, 1985.

5. **Rutka JT, Rosenblum ML, Bodell WJ:** Effects of human recombinant tumor necrosis factor on human malignant gliomas. Congress of Neurological Surgeons, New Orleans, Louisiana, Sep 1986.
6. **Rutka JT:** The biology of chordoma. Congress of Neurological Surgeons, New Orleans, Louisiana, Sep 1986.
7. **Rutka JT, Rosenblum ML, Bodell WJ:** Radioreceptor studies of tumor necrosis factor on human malignant gliomas. American Association of Neurological Surgeons, Dallas, Texas, May 5, 1987.
8. **Rutka JT:** Transforming growth factors in human malignant gliomas. Resident Research Award Presentation. American Academy of Neurological Surgeons, Golden Anniversary Meeting, Sep 15, 1988.
9. **Rutka JT, Apodaca G, Rosenblum ML:** The secretion of proteases by human malignant gliomas: Mechanism of glioma cell invasiveness. American Association of Neurological Surgeons, Washington, D.C., Apr 3, 1989.
10. **Rutka JT:** Probing neoplasia. Society of University Neurosurgeons, Toronto, Ontario, May 6, 1989.
11. **Rutka JT, Ching A:** A new method for the simultaneous extraction of DNA and RNA from human brain tumors and normal brain. Ninth International Conference on Brain Tumor Research and Therapy, Asilomar, California, Oct 1991.
12. **Rutka JT:** Medulloblastoma: Experience from the last decade at the Hospital for Sick Children (1980-1989). 4th International Symposium on Pediatric Neuro-oncology, Tokyo, Japan, Nov 1991.
13. **Rutka JT, Dirks P:** Development of malignant change in low grade astrocytomas in childhood. American Association of Neurological Surgeons, Boston, Massachusetts, Dec 1991.
14. **Rutka JT:** Development of malignant change in supratentorial low grade astrocytomas in children. American Association of Neurological Surgeons, San Francisco, California, Apr 1992.
15. **Rutka JT:** Medulloblastoma: Experience from the last decade at the Hospital for Sick Children (1980-1989). American Association of Neurological Surgeons, San Francisco, California, Apr 1992.
16. **Rutka JT, Smith S:** The gene for GFAP alters the morphology and reduces proliferation of human astrocytoma cells. American Association for Cancer Research, San Diego, California, May 1992.
17. **Rutka JT, Hoffman HJ, Humphreys RP, Drake JM:** Medulloblastoma: The last decade at the Hospital for Sick Children. Fifth Canadian Neuro-oncology Meeting, Huntsville, Ontario, Jun 1992.
18. **Mason W, Becker LE, Rutka JT:** Proliferative indices as markers of biological malignancies in choroid plexus tumors. Fifth Canadian Neuro-oncology Meeting, Huntsville, Ontario, Jun 1992.
19. **Rutka JT, Smith SL, Fukuyama K:** Expression of TIMP-1 and TIMP-2 by human malignant astrocytomas. American Association for Cancer Research, Orlando, Florida, May 1993.
20. **Rutka JT, Smith SL, Fukuyama K, Hauet A:** Expression of TIMP-1 and TIMP-2 by human malignant astrocytomas. Canadian Congress of Neurological Sciences, Toronto, Ontario, Jun 1993.
21. **Rutka JT, Posnick J, Goldstein JA, Armstrong DC:** Reconstruction of cranial base defects in children using fixed autogenous bone graft. Canadian Congress of Neurological Sciences, Toronto, Ontario, Jun 1993.
22. **Rutka JT, Smith SL, Fukuyama K:** Transfection of human astrocytoma cells with anti-sense GFAP cDNA. International Conference on Brain Tumor Research Therapy, Stalheim, Norway, Sep 1993.
23. **Siddiqui SN, Rutka JT, Posnick JC, Hoffman HJ, Humphreys RP, Drake JM:** The detection and management of intracranial hypertension following early craniofacial surgery. Congress of Neurological Surgeons, Vancouver, British Columbia, Oct 1993.

24. **Rutka JT, Smith SL, Fukuyama K, Matsuzawa K, Muller M, Dirks PB:** Expression of TIMP-1, TIMP-2 and type IV collagenase transcripts in pediatric brain tumors: Correlation with tumor grade. American Association of Neurological Surgeons, San Antonio, Texas, Dec 1993.
25. **Rutka JT:** Expression of molecular markers of invasion in a malignant rhabdoid tumor of the pineal region. American Society of Pediatric Neurosurgeons, Nevis, West Indies, Feb 1994.
26. **Dirks PB, Hubbard SL, Fukuyama K, Matsuzawa K, Rutka JT:** Cyclin gene expression in human astrocytoma cell lines. American Association for Cancer Research, San Francisco, California, Apr 1994.
27. **Matsuzawa K, Fukuyama K, Hubbard SL, Dirks PB, Rutka JT:** Transfection of an invasive human astrocytoma cell line with TIMP-1 cDNA: Modulation of invasive potential. American Association for Cancer Research, San Francisco, California, Apr 1994.
28. **Fukuyama K, Matsuzawa K, Hubbard SL, Dirks PB, Rutka JT:** GFAP gene methylated in GFAP negative glioma cells. Canadian Neuro-Oncology Meeting, Lake Louise, Alberta, May 1994.
29. **Rutka JT, Drake JM, Hoffman HJ, Humphreys RP, Holowka S:** ISG wand-directed resection of low grade astrocytomas in children. Canadian Neuro-Oncology Meeting, Lake Louise, Alberta, May 1994.
30. **Matsuzawa K, Fukuyama K, Hubbard SL, Dirks PB, Rutka JT:** The up-regulation of TIMP-1 in human astrocytoma cells decreases astrocytoma invasiveness. Canadian Neuro-Oncology Meeting, Lake Louise, Alberta, May 1994.
31. **Murakami M, Dirks PB, Hubbard SL, Rutka JT:** Inducible expression of GFAP in human fibrosarcoma cells. Eleventh International Conference on Brain Tumor Research and Therapy, Napa, California, Nov 2, 1995.
32. **Dirks P, Hubbard SL, Murakami M, Rutka JT:** Upregulation of p27 in retinoic acid treated human astrocytomas. Eleventh International Conference on Human Brain Tumors and Therapy, Napa, California, Nov 2, 1995.
33. **Rutka JT, Dirks PB:** Cell cycle gene expression in human astrocytomas. American Association of Pediatric Neurosurgeons, Hawaii, Jan 29, 1996.
34. **Hubbard SL, Dirks PB, Murakami M, Rutka JT:** Focal adhesion kinase expression in human astrocytomas. American Association for Cancer Research, Washington, D.C., Apr 22, 1996.
35. **Dirks P, Hubbard SL, Murakami M, Rutka JT:** Cytoskeletal rearrangement of differentiated malignant astrocytoma cells is associated with a change in phosphorylated GFAP. American Association for Cancer Research, Washington, D.C., Apr 23, 1996.
36. **Rutka JT, Hoffman HJ, Drake JM, Hwang P, Otsbuo H, Kiriakopoulos E, Mikulis D:** Combined utility of functional MRI, frameless stereotaxy, and electrocorticography in the aggressive resection of lesions in eloquent locations in the child's brain. International Society of Pediatric Neurosurgery, Ottawa, Ontario, Jul 10, 1996.
37. **Perrin RG, Rutka JT, Hoffman HJ, Humphreys RP, Drake JM, Jay V:** Posterior fossa subdural hematomas in neonates: Management principles. International Society for Pediatric Neurosurgery, Ottawa, Ontario, Jul 11, 1996.
38. **Rutka JT, Dirks PB:** p16-induced regulation of astrocytoma tumorigenicity. American Academy of Neurological Surgeons, Banff, Alberta, Sep 12, 1997.
39. **Dirks PB, Rutka JT, Hamel PA:** Expression of p16 in U343 astrocytoma cells is associated with changes in the retinoblastoma and E2F family proteins. XIIth International Conference on Brain Tumor Research and Therapy., Oxford, England, Sep 21, 1997.
40. **Tsugu A, Dirks PB, Hamel PB, Rutka JT:** Expression of p57 inhibits the growth of astrocytoma cells. XIIth International Conference on Brain Tumor Research and Therapy, Oxford, England, Sep 21, 1997.
41. **Jung S, Hinek A, Rutka JT:** Expression of the 67 kDa elastin binding protein in human astrocytomas: Implications for astrocytoma invasion. XIIth International Conference of Brain Tumor Research and Therapy, Oxford, England, Sep 21, 1997.

42. **Rutka JT:** An expanded role for intermediate filaments in human astrocytomas. American Association of Pediatric Neurosurgeons, 21st Annual Meeting, Manele Bay Hotel, Lana'i, Hawaii, Jan 27, 1998.
43. **Rutka JT:** p57CIP2: A novel tumor suppressor gene for malignant astrocytomas. American Academy of Neurological Surgeons., Santa Barbara, California, Nov 6, 1998.
44. **Chuang S, Snead, OC, Rutka, JT:** Pediatric epilepsy. American Society of Neuroradiology, San Diego, California, May 24, 1999.
45. **Rutka JT:** Publishing scientific articles in Neurosurgery. Congress of Neurological Surgeons Annual Meeting, Boston, Massachusetts, Nov 1, 1999.
46. **Rutka JT:** Pediatric brain tumor update for the general neurosurgeon. Congress of Neurological Surgeons Annual Meeting, Boston, Massachusetts, Nov 3, 1999.
47. **Jung S, Rutka JT:** Augmented invasion of RHAMM-transfected human astrocytoma cells: Visualization in a human brain slice model. Society for Neuro-Oncology, Scottsdale, Arizona, Nov 20, 1999.
48. **Taylor MD, Rutka JT:** Germline hSNF5 mutations in familial rhabdoid tumors. Society for Neuro-Oncology, Scottsdale, Arizona, Nov 20, 1999.
49. **Tsugu A, Rutka JT:** Mechanism of p57-induced apoptosis in human astrocytoma. Society for Neuro-Oncology, Scottsdale, Arizona, Nov 21, 1999.
50. **van Furth WR, Cusimano MD, Rutka JT, Laughlin S, McCutcheon IE, :** Development of an orthotopic xenograft meningioma model. North American Skull Base Society, Scottsdale, Arizona, Mar 17, 2000.
51. **Cohen M, Humphreys RP, Dirks P, Rutka JT, Drake JM, Forrest CR:** Application of hydroxyapatite (HA) cement in complex congenital and acquired cranial cauld deformities (19). Canadian Society of Plastic Surgeons, Winnipeg, Manitoba, Jun 8, 2000.
52. **Rutka JT, Jung S, Turley E:** RHAMM Mediates Astrocytoma Motility and Invasiveness. The American Academy of Neurological Surgery, Colorado Springs, Colorado, Oct 12, 2000.
53. **Ochi A, Otsubo H, Chitoku S, Hunjan A, Rutka JT, Chuang SH, Kamijo, Ken-ichi, Yamazaki T, Snead III, O:** Difference of EEG dipole propagation between spikes with myoclonic jerks and without jerks in patients with epilepsy partialis continua. American Epilepsy Society, Los Angeles, California, Dec 2000.
54. **Rutka JT:** The role of RhoA in the regulation of astrocytoma motility and invasion. American Association of Pediatric Neurosurgeons, Maui, Hawaii, Jan 28, 2001.
55. **Rutka JT:** Truncating mutations of human suppressor fused(HSU(FU) in pediatric medulloblastoma: Implications for sonic hedgehog and WNT signaling. The 14th International Conference on Brain Tumor Reserach Therapy, Ashville, NC, May 26, 2001.
56. **Rutka JT:** cDNA microarray analysis of pediatric medulloblastoma. 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, NS, Jun 12, 2001.

OTHER LECTURES OR PAPERS GIVEN

1. University of Toronto, William S. Keith Visiting Professorship in Neurosurgery, Toronto, Ontario, May 7, 1988. Human malignant gliomas with transforming growth factor-like activity (Morley Prize Lecture).
2. University of Toronto, Gallie-Bateman Lecture, Toronto, Ontario, May 7, 1988. Isolation and partial purification of transforming growth factors from human malignant gliomas.
3. University of Toronto, H.S. Botterell Lectureship, Toronto, Ontario, Oct 25, 1988. The role of proteases in glioma invasiveness.
4. University of Toronto, William S. Keith Visiting Professorship in Neurosurgery, Toronto, Ontario, Feb 24, 1989. Molecular probes in neuro-oncology.
5. University of Toronto, Division of Neurosurgery Conference, Toronto, Ontario, Jan 15, 1991. Gene therapy in neuro-oncology.
6. The Hospital for Sick Children Research Institute, Neuroscience Seminar, Toronto, Ontario, Feb 5, 1991. Molecular genetics of human astrocytoma.

7. The Toronto Hospital, Neurology Lecture Series, Toronto, Ontario, May 3, 1991. Biology, genetics and pathology of brain tumors.
8. University of Toronto, Gallie Day, Toronto, Ontario, May 10, 1991. Subarashii! Science and Surgery in Japan.
9. University of Toronto, William S. Keith Visiting Professorship in Neurosurgery, Toronto, Ontario, Feb 4, 1992 - Feb 6, 1992. Experience with gene transfer in neuro-oncology.
10. The Hospital for Sick Children, Research Institute, Neuroscience Seminar, Toronto, Ontario, Apr 28, 1992. Preliminary experience with gene transfer in experimental neuro-oncology.
11. The Hospital for Sick Children, Pediatric Medical Grand Rounds, Toronto, Ontario, Sep 2, 1992. Head injuries.
12. Neuroscience Symposium, University of Toronto, Toronto, Ontario, Oct 1992. Neuronal growth and development: Genetic and extracellular factors influencing astrocytoma cell growth.
13. The Toronto Hospital, Neurosurgery Research Rounds, Toronto, Ontario, Jan 12, 1993. Gene transfer technology: Impact on the future of the neurosciences.
14. University of Toronto Trauma Research Day, Toronto, Ontario, Jun 1993. A comparison of the Richmond bolt and the Camino catheter in the measurement of intracranial pressure in severely head injured children.
15. The Hospital for Sick Children, Surgical Grand Rounds, Toronto, Ontario, Jun 9, 1993. Impact of gene transfer technology in neuro-oncology.
16. The Hospital for Sick Children, Research Institute, 6th Annual Scientific Retreat, Toronto, Ontario, Dec 16, 1993. Control of growth and differentiation in astrocytoma: Molecular and clinical aspects.
17. Hospital for Sick Children, Department of Cell Biology, Toronto, Ontario, Apr 1994. Modulation of astrocytoma cytoskeleton by gene transfer techniques: Playing with a house of cards.
18. Terry Fox Immunology and Cancer Research Seminar, Toronto, Ontario, Nov 16, 1994. Genetic modulation of astrocytoma invasiveness.
19. Surgical Oncology Research Day, Toronto, Ontario, Feb 28, 1995. Anti-proliferative and apoptotic effects of verotoxin on human astrocytoma cell lines.
20. Toronto Critical Care Medicine and Trauma Symposium, Toronto, Ontario, Oct 4, 1996 - Oct 6, 1996. Initial stabilization and management of the severely head-injured patient.
21. Neuroscience rounds, Sunnybrook Health Sciences Center, Toronto, Ontario, Jan 16, 1997. Extracellular matrix of the brain: Structure and Function.
22. Keith Professorship in Neurosurgery, Toronto, Ontario, Feb 11, 1997. Gene therapy for human brain tumors.
23. Epilepsy Research Conference, The University of Toronto, Toronto, Ontario, Mar 7, 1997. Surgical resection of epileptogenic lesions in eloquent brain in children.
24. Terry Fox Seminar Series, The Hospital for Sick Children, Toronto, Ontario, Apr 2, 1997. The cell cycle in human astrocytomas: When structure meets function.
25. E. Harry Botterell Professorship in Neurosurgery, Toronto, Ontario, Nov 18, 1997. Current status and future role of gene therapy in the treatment of brain tumors.
26. The Hospital for Sick Children, Research Institute Winter Retreat, Toronto, Ontario, Dec 4, 1997. p16-induced regulation of astrocytoma tumorigenicity.
27. 75th Anniversary of Neurosurgery in Canada, Toronto, Ontario, Oct 29, 1998. Recent advances in gene transfer technology in experimental neuro-oncology.
28. The 1999 Keith Professorship in Neurosurgery, Toronto, Ontario, Feb 9, 1999. Recent advances in the pathogenesis of brain tumors.
29. The Hospital for Sick Children, Seminar Series, Toronto, Ontario, Jan 7, 2000. (1) Anatomy of the skull base, (2) Cytoskeletal matrix interactions in human astrocytomas.
30. The Hospital for Sick Children, Laboratory Medicine and Pathobiology Lecture Series, Toronto, Ontario, Jan 7, 2000. Experimental models for the study of human brain tumors.
31. The Hospital for Sick Children, Pediatric Grand Rounds, Toronto, Ontario, Jan 12, 2000. Brain tumors in children: From a difficult past to a promising future.

32. The Hospital for Sick Children, Pediatric Grand Rounds, Toronto, Ontario, Jan 12, 2000. Pediatric brain tumors: From a difficult past to a promising future.
33. The Hospital for Sick Children, Neurosurgery Seminar Series, Toronto, Ontario, Jan 21, 2000. Neurosurgical approaches to intracranial lesions.
34. Department of Paediatrics The Hospital for Sick Children, Toronto Ontario, Apr 29, 2000. Paediatric Brain Tumors.
35. 27th Annual Gallie Day (University of Toronto), Toronto, Ontario, May 11, 2001. New models for studying the pathobiology of human brain tumours.
36. The 14th International Conference on Brain Tumor Research Therapy, Asheville, North Carolina, May 26, 2001 - May 30, 2001. Expression of notch-1 protects U251 astrocytoma cells from apoptosis in response to serum starvation.
37. Ophthalmology Rounds The Hospital for Sick Children, Toronto, Ontario, Oct 12, 2001. The ophthalmological implications of sellar and parasellar tumors.
38. 37th Meeting of the Canadian Congress of Neurological Sciences, Vancouver, BC, Jun 18, 2002 - Jun 22, 2002. Pediatric cavernous sinus trigeminal schwannoma.
39. American Association of Neurological Surgeons, San Diego, CA, Apr 25, 2003 - May 1, 2003. Age-related Expression of DNA Topoisomerase IIalpha in Pediatric Optic Pathway-Hypothalamic Gliomas: Rationale for Targeted Selection for Adjuvant Therapy.
40. American Association of Neurological Surgeons, San Diego, CA, Apr 25, 2003 - May 1, 2003. Craniopharyngioma.
41. American Association of Neurological Surgeons, San Diego, CA, Apr 25, 2003 - May 1, 2003. Current Treatment Options for Pediatric Epilepsy.
42. American Association of Neurological Surgeons, San Diego, CA, Apr 25, 2003 - May 1, 2003. The Spectrum of Adjuvant Therapy for Brain Tumors.
43. Atlantic Clinical Neurosciences Society, Halifax, NS, May 10, 2003 - May 11, 2003. Neurosurgical Management of a Child with Epilepsy: The Hospital for Sick Children Experience.
44. Visiting Professor University of Arkansas for Medical Sciences, Little Rock, AK, May 12, 2003 - May 13, 2003. Neurosurgical Management of Brain Stem Tumors in Children.
45. 38th Meeting of the Canadian Congress of Neurological Sciences, Quebec, Jun 17, 2003 - Jun 21, 2003. 3D-reconstruction of magnetic source image data for intra-operative navigating system.
46. 38th Meeting of the Canadian Congress of Neurological Sciences, Quebec, Jun 17, 2003 - Jun 21, 2003. GFAP and fascin expression in astrocytomas of different grades.
47. Lougheed Course 2004, Toronto, Ontario, Oct 1, 2004. Academic Neurosurgery.
48. Commemoration of the Donor Hall Of Fame, The Hospital For Sick Children, Toronto, Ontario, Nov 11, 2004. How Research Makes A Difference.
49. University of Toronto, Toronto, ON, Oct 19, 2005. Molecular biology of human brain tumors.
50. University of Toronto Epilepsy Research Program, Toronto, ON, Jul 28, 2006. Surgery for Rolandic Epilepsy in Children.
51. 12th Annual WB & MH Chung Research Day at University of British Columbia, Vancouver, British Columbia, Nov 6, 2006 - Nov 8, 2006. Dangerous River.
52. University of Toronto, Toronto, Ontario, Nov 22, 2006. LMP410 Lecture.
53. Visiting Professor, Children's Hospital in Los Angeles, Los Angeles, CA, Feb 26, 2007 - Feb 28, 2007. Neuroscience Research Seminar- "Medulloblastoma: A Quest for Novel Therapeutic Targets".
54. University of Toronto, Toronto, On, Mar 27, 2007. 2007 Bruce Tovee MCCQE Lecture.
55. 2007 William S. Keith Professorship in Neurosurgery, Toronto, Ontario, Apr 9, 2007 - Apr 10, 2007. Advances in the use of magnetoencephalography for epilepsy surgery.
56. 50th Anniversary of Neurosurgery, Yonsei University, Seoul, Korea, May 18, 2007 - May 19, 2007. Surgical management of Rolandic Epilepsy in Children.
57. 11th Frank P. Smith Visiting Professor, University of Rochester, Rochester, NY, Oct 4, 2007 - Oct 5, 2007. Building and Maintaining an Academic Neurosurgery Training Program: The University of Toronto Experience.

58. Botterall Lecture, Toronto, On, Nov 10, 2008 - Nov 11, 2008. Strategies for Removing Perirolandic Tumors in Children.
59. University of Toronto Molecular Pathobiology Seminars, Toronto, Ontario, Feb 11, 2009. Medulloblastom: A quest for novel therapeutic targets.
60. The 37th Annual meeting of the Japanese Society for Pediatric Neurosurgery, Osaka, Japan, Jun 10, 2009 - Jun 14, 2009. Role of Pediatric Neurosurgeons in Multidisciplinary Therapy for CNS Tumors.

POSTER PRESENTATIONS, SCIENTIFIC EXHIBITS AND MOVIE PRESENTATIONS

1. **Rutka JT, Muller PJ:** Preoperative embolization of vascular supratentorial meningiomas. (Poster Presentation) Canadian Congress of Neurological Sciences, St. John's, Newfoundland, Jun 23, 1983.
2. **Rutka JT, DeArmond SJ, Rosenblum ML:** Effects of extracellular matrix proteins on an anaplastic astrocytoma cell line. (Poster Presentation) Congress of Neurological Surgeons, Denver, Colorado, Apr 16, 1986.
3. **Rutka JT, DeArmond SJ, Rosenblum ML:** Effects of retinoids on the growth and differentiation of an anaplastic glioma cell line. (Poster Presentation) American Association of Cancer Research, Los Angeles, California, May 7, 1986.
4. **Rutka JT, Rosenblum ML, Davis RL:** Establishment and characterization of a cell line from a human gliosarcoma. (Poster Presentation) International Congress of Neuropathology, Stockholm, Sweden, Sep 1986.
5. **Rutka JT, Ching A:** A new method for the simultaneous extraction of DNA and RNA from human brain tumors and normal brain. (Poster Presentation) Research Institute, 4th Annual Scientific Retreat, Toronto, Ontario, Dec 19, 1991.
6. **Rutka JT:** Development of malignant change in supratentorial low grade astrocytomas in children. (Poster Presentation) American Association of Neurological Surgeons, San Francisco, California, Apr 11, 1992.
7. **Rutka JT, Smith S:** The gene for GFAP alters the morphology and reduces proliferation of human astrocytoma cells. (Poster Presentation) American Association for Cancer Research, San Diego, California, May 20, 1992 - May 23, 1992.
8. **MacDonald RL, Humphreys RP, Rutka JT, Kestle JRW:** Colloid cysts in children. (Poster Presentation) Canadian Congress of Neurological Sciences, Toronto, Ontario, Jun 16, 1993 - Jun 19, 1993.
9. **Al-Shail E, Rutka JT, Drake JM, Hoffman, Holowka S:** Utility of frameless stereotaxy in the resection of skull base and basal cerebral lesions in children. (Poster Presentation) 46th Annual Meeting, Congress of Neurological Surgeons, Montreal, PQ, Oct 1, 1996.
10. **Rutka JT:** Dissociation of p21 and p27-induced cell cycle arrest from phenotypic differentiation in retinoic acid-treated astrocytoma cells. (Poster Presentation) American Association for Cancer Research, American Association for Cancer Research, 88th Annual Meeting, San Diego, CA, 1997.
11. **Rutka JT:** Expression of the 67-kD elastin binding protein in human gliomas. (Poster Presentation) American Association of Cancer Research, American Association of Cancer Research, 88th Annual Meeting, San Diego, CA, 1997.
12. **Rutka JT:** Regulation of the adhesion of a human fibrosarcoma cell line to extracellular matrix by glial fibrillary acidic protein. (Poster Presentation) American Association of Cancer Research, American Association of Cancer Research, 88th Annual Meeting, San Diego, CA, 1997.
13. **Rutka JT:** A novel spontaneous model of leptomeningeal leukemia and hydrocephalus by cDNA microarray. (Poster Presentation) Brain Tumor Research and Therapy, The 14th International Conference on Brain Tumor Research and Therapy, Asheville, NC, May 26, 2001 - May 30, 2001.
14. **Rutka JT:** Transcriptional profiling in pediatric medulloblastoma by cDNA microarray. (Poster Presentation) Brain Tumor and Research, The 14th International Conference on Brain Tumor Research and Therapy, Asheville, NC, May 26, 2001 - May 30, 2001.

15. **Rutka JT:** Medulloblastoma in a patient with rubenstein-taybi syndrome. (Poster Presentation) Canadian Congress of Neurological Society, 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, NS, Jun 12, 2001 - Jun 16, 2001.
16. **Rutka JT:** Novel truncating germline in VHL tumour suppressor gene presenting as type II Von Hippel Lindau Syndrome. (Poster Presentation) Canadian Congress of Neurological Sciences, 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, NS, Jun 12, 2001 - Jun 16, 2001.
17. **Rutka JT:** Persistent seizure disorders secondary to residual/recurrent dysembryoplastic neuroepithelial tumours. (Poster Presentation) Canadian Congress of Neurological Sciences, 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, NS, Jun 12, 2001 - Jun 16, 2001.
18. **Rutka JT:** Pre-surgical factors that influence seizure outcome in children after temporal lobectomy. (Poster Presentation) Canadian Congress of Neurological Sciences, 36th Meeting of Canadian Congress of Neurological Sciences, Halifax, NS, Jun 12, 2001 - Jun 16, 2001.
19. **Rutka JT:** Spontaneous hydrocephalus and leptomeningeal leukemia in p53 RAG-2 SCID triple mutant mice. (Poster Presentation) Canadian Congress of Neurological Sciences, 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, NS, Jun 12, 2001 - Jun 16, 2001.
20. **Rutka JT:** Threshold of after discharge in children with neuronal migration disorders. (Poster Presentation) Canadian Congress of Neurological Sciences, 36th Meeting of the Canadian Congress of Neurological Sciences, Halifax, NS, Jun 12, 2001 - Jun 16, 2001.
21. **Rutka JT:** Complementary deoxyribonucleic acid microarray analysis of pediatric medulloblastoma. (Poster Presentation) Canadian Neurological Society, CNS 51st Annual Meeting, San Diego, CA, Sep 29, 2001 - Oct 4, 2001.
22. **Rutka JT:** Persistent seizure disorder secondary to residual/recurrent dysembryoplastic neuroepithelial tumors. (Poster Presentation) Canadian Neurological Society, CNS 51st Annual Meeting, San Diego, CA, Sep 29, 2001 - Oct 4, 2001.
23. **Rutka JT:** Complications of invasive subdural grid monitoring in children. (Poster Presentation) American Epilepsy Society, American Epilepsy, Seattle, WA, Dec 11, 2002.
24. **Ray A, Ho M, Parkes R, Mainprize TG, McLaughlin, Bouffet E, Rutka JT, Hawkins CE:** A Clinico-Biological Model Predicting Survival in Medulloblastoma. (Young Investigator Award) 11th Biennial Canadian Neuro-Oncology meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
25. **Ivanchuk S, Mondal S, Rutka JT, :** Characterization of an interaction between ARF and the death domain-containing protein, DAXX. (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
26. **Huang A, Behesti B, Hawkins C, Zielenska M, Bouffet E, Rutka JT, Squire J, :** Genome profiling of medulloblastoma (MB) using array-based comparative genomic hybridization (A-CGH). (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
27. **Mainprize T, Ueda S, Taylor MD, Ray A, Rutka JT, :** GLI2 as an oncogene in medulloblastoma. (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
28. **Hukin J, Rutka JT:** Pediatric Neuro-Oncology Session A. (Co-Chairs) 11th Biennial Canadian Neuro-Oncology Meeting, 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
29. **Bartels UK, Shroff M, Dag-Ellams U, Laperriere N, Rutka JT, Bouffet E, :** Surveillance spinal MRI in the follow-up of children treated with medulloblastoma. (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
30. **Tabori U, Vukovic B, Zielenska M, Hawkins C, Rutka JT, Bouffet E, Squire J, Malkin J, :** Telomere erosion and lack of telomerase activity affect the biological behavior of pediatric low grade gliomas. (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.

31. **Mondal S, Ivanchuk S, Boulianne G, Rutka JT:** The cloning and characterization of proteins binding to glial cells missing. (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
32. **Salhia B, Rutka JT, :** The role of ROCK inhibition on astrocytomas. (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
33. **Rutten F, Salhia B, Rutka JT, Lingwood CA:** Verotoxin and the treatment of Medulloblastoma. (Poster) 11th Biennial Canadian Neuro-Oncology Meeting, Toronto, Ontario, May 28, 2004 - May 30, 2004.
34. **Rutka JT, Steinbok P:** Elipsepsy surgery in children under 3 years of age: A Canadian wide surgery. (Abstract) Canadian Neurological Sciences Federation, 42nd Meeting of the Canadian Neurological Sciences Federation, Edmonton, Alberta, Jun 19, 2007 - Jun 22, 2007.
35. **Rutka JT:** Up-Date on Surgery for Pediatric CNS Tumors. (Poster) Canadian Journal of Neurological Sciences, 13th Biennial Canadian Neuro-Oncology Meeting, Banff, Alberta, May 17, 2008.
36. **Akiyama T, Ochi A, Chan D, Weiss SK, Snead OC, Rutka JT, Drake J, Otsubo H:** Movie of ictal high-frequency oscillations and intracranial video EEG: Marching high-frequency power correlating with symptoms in Jacksonian Seizures. (Movie) Canadian Neurological Sciences Federation, 43rd Annual Congress of the Canadian Neurological Sciences Federation Meeting, Victoria, BC, Jun 17, 2008 - Jun 20, 2008.

RESEARCH AND INVESTIGATION

SENIOR INVESTIGATOR's NAME APPEARS IN BOLD

RESEARCH FUNDING - PEER REVIEWED

Molecular genetic characterization of human astrocytomas. **Rutka JT:** Ontario Ministry of Health, Career Scientist Award (\$150,000 1990 - 1993)

Molecular genetic characterization of human astrocytomas. **Rutka JT,** Becker LE, Squire J: The Samuel Lunenfeld Charitable Foundation (\$100,000 1991 - 1993)

A comparison of the Richmond bolt and Camino catheter in the measurement of intracranial pressure in severely head-injured children. **Rutka JT,** Bohn D, Cox P: Physicians Services Incorporated Foundation (\$14,950 1992 - 1993)

Can the gene for GFAP suppress the tumorigenicity of human astrocytoma cells? **Rutka JT,** Becker LE: National Cancer Institute of Canada (\$151,000 1992 - 1995)

Role of motor-evoked potential monitoring in children with severe head injury. **Rutka JT,** Cox P, Sylvestre A, Taylor M, Logan W: Easter Seal Research Institute (\$18,500 1992 - 1993)

Transfection of human astrocytoma cells with GFAP cDNA. **Rutka JT:** Dean's Fund (\$10,000 1993)

Cell cycle control of human astrocytomas. **Dirks P,** Rutka JT: National Cancer Institute of Canada (\$35,000 1994 - 1995)

Intermediate filament-induced alterations in astrocytoma morphology and proliferation. **Rutka JT,** Becker LE: Medical Research Council of Canada (\$120,000 1995 - 1998)

FACSCAN analysis multi-user equipment grant. **Guidos C,** Danska J, Knowles G, Squire J, Malkin D, Penn L, Rutka JT: Medical Research Council of Canada (\$82,470 1995 - 1998)

FACSCAN multi-user maintenance grant. **Guidos C**, Danska J, Knowles G, Squire J, Malkin D, Penn L, Rutka JT: Medical Research Council of Canada (\$30,000 1995 - 1998)

Cell cycle control of human astrocytomas. **Dirks P**, Rutka JT: Research Fellowship Award, National Cancer Institute of Canada (\$35,000 1995 - 1996)

Reducing CSF shunt infections. **Drake JM**, Rutka JT, Humphreys RP, Hoffman HJ: The Hospital for Sick Children Foundation (\$120,000 1995 - 1997)

Cell cycle control of human astrocytomas. **Dirks P**, Rutka JT: Research Fellowship Award, Medical Research Council of Canada (\$76,000 1996 - 1997)

Regulation of NMDA channels in human epilepsy. **Salter M**, Rutka JT: The Research Institute, The Hospital for Sick Children (\$40,000 1997 - 1999)

A molecular epidemiologic case-control study of pediatric brain tumors in Ontario. **McLaughlin JR**, Rutka JT, Greenberg M, Malkin D: National Cancer Institute of Canada (\$494,326 1997 - 2000)

p16-Induced regulation of astrocytoma tumorigenicity. **Rutka JT**, Hamel PA: National Cancer Institute of Canada (\$360,000 1997 - 2000)

Phase III clinical trial for astrocytoma with in vivo tumor transduction. **Bernstein M**, Rutka JT: Novartis (\$151,861 1997 - 1998)

Regulation of cerebral salt balance in head injury in children. **Rutka JT**, Bohn D: Physicians Services Incorporated Foundation (\$120,000 1997 - 1999)

Intratumoral therapy with verotoxin for recurrent malignant astrocytoma in children and adults: A pilot innovative therapy trial. **Rutka JT**, Baruchel S, Lingwood C: National Brain Tumor Foundation (\$20,000 1998 - 1999)

Cytoskeletal-matrix interactions in astrocytomas. **Ivanchuk S**, Rutka JT: Research Fellowship Award, National Cancer Institute of Canada (\$63,000 1998 - 2001)

Hedgehog signaling pathways in medulloblastoma. **Taylor MD**, Rutka JT: Research Fellowship Award, National Cancer Institute of Canada (\$120,000 1998 - 2001)

Intermediate filament-induced alterations in astrocytoma tumorigenicity and morphology. **Rutka JT**, Dirks PB, Becker LE: Medical Research Council of Canada (\$216,000 1998 - 2001)

Shared flow cytometry facility. **Guidos C**, Rutka JT, Buchwald M, Chamberlain J, Cohen A, Danska J, Dick J, Grinstein S: Medical Research Council of Canada (\$50,000 1998 - 2002)

Cytoskeletal: Matrix interactions regulating astrocytoma tumorigenicity. **Rutka JT**: Medical Research Council of Canada Scientist Award (\$300,000 1999 - 2004)

Role of hedgehog signaling in brain and cartilage neoplasms. **Alman B**, Rutka JT, Hui CC: National Cancer Institute of Canada/Terry Fox New Frontiers Initiative (\$570,000 1999 - 2002)

Treatment of astrocytomas with verotoxin. **Mainprize T**, Rutka JT: Research Fellowship Award National Cancer Institute of Canada (\$130,000 1999 - 2002)

p16 regulated alteration of astrocytoma cytoskeletal formation. **Langlois A**, Rutka JT: Fellowship Award, Association de Recherche Contre Cancer France (\$60,000 1999 - 2001)

Mouse Imaging Centre for Canada. **Henkelman RM**, Rutka JT, Hui C, McKerlie C, Foster FS, Cuticchia J, Rossant J, Rabinovitch M, Backx P, Adamson SL: Canadian Foundation for Innovation, Canadian Institutes of Health Research (\$5,294,947 2000 - 2005)

Canadian Centre for Applied Cancer genetics. **Malkin D**, Rutka JT: Canada Foundation for Innovation (\$2,175,000 2001 - 2005)

A molecular-epidemiologic case-control study of pediatric brain tumours in Ontario. **McLaughlin J**, Malkin D, Rutka J, Wells P, Greenberg M: National Cancer Institute (\$506,237 2001 - 2004)

The role of human suppressor of fused in medulloblastoma. **Rutka JT**, Hogg D: National Cancer Institute of Canada (\$450,000 2002 - 2004)

Sonic hedgehog and WNT signaling blockade as a treatment for paediatric medulloblastoma. **Rutka JT**, Hawkins C: Katie's Kids for the Cure ("Foundation") (\$150,000 2002 - 2004)

Signaling and degradation network of Toronto, SIDNET. **Rotin D**, Rutka JT: Canadian Centre for Applied Cancer Genetics (\$5,185,329 2002 - 2004)

Cytoskeletal: matrix interactions regulating astrocytoma tumorigenicity. **Rutka J**, Becker L: Canadian Institutes of Health Research (\$300,000 2001 - 2004)

The Role of Gli 2 in Medulloblastoma. **Rutka JT**, Mainprize T: Pediatric Brain Tumor Foundation of the United States (\$140,000 2002 - 2003)

Gli2 as a Target for the Treatment of Medulloblastoma. **Rutka JT**: Ontario Cancer Research Network (\$443,262 2003 - 2006)

Role of hedgehog signaling in the pathogenesis of medulloblastoma. **Rutka JT**, Taylor MD: National Cancer Institute of Canada (\$450,000 2005 - 2008)

The role of cytoskeletal GTPases in astrocytoma migration. **Rutka JT**: Canadian Institutes of Health Research (\$500,000 2004 - 2009)

Presurgical assessment of motor function in children. **Gaetz WC**, Snead OC, Rutka JT: Sick Kids Foundation (\$150,000 2007 - 2009)

The Role of Aberrant HGF/cMET Signaling in Medulloblastoma. **Rutka JT**: Canadian Cancer Society (\$378,000 2008 - 2011)

The role of isochromosome 17q in medulloblastoma. **Rutka JT**, Dirks P, Taylor MD, Tabori U: Pediatric Brain Tumor Foundation (\$1,198,800 2008 - 2011)

Characterization of nanoparticle delivery across the blood brain barrier. **Rutka, JT**: Brain Tumour Foundation of Canada (\$24,500 2009)

The role of the guanine nucleotide exchange factor, ECT2, in glioma migration, invasion and tumorigenicity. **Weeks A**, Rutka JT: Canadian Cancer Society Research Institute, Fellowship Award (\$150,000 2009 - 2012)

Molecular targeting of the Rho-GTPase pathway in astrocytomas. **Rutka JT**, Hynynen K, Mainprize T: Canadian Institutes of Health Research (\$797,005 2010 - 2015)

Research Funding - Non Peer Reviewed

Effects of tumor necrosis factor and retinoids on the growth of human astrocytomas. **Rosenblum ML**, Rutka JT: Preuss Foundation, San Diego, California (\$50,000 1987)

Start-up funds. **Rutka JT**: The Hospital for Sick Children Research Institute (\$25,000 1990 - 1991)

Equipment award. **Rutka JT**: The Hospital for Sick Children Research Institute (\$3,978 1991)

Gene therapy for the treatment of glioblastoma multiforme with in vivo tumor transduction with the herpes simplex thymidine kinase gene/ganciclovir system. **Bernstein MA, Rutka JT**: Sandoz Canada Incorporated (\$200,000 1996 - 1997)

Prospective, open-label, parallel-group, randomized, multicenter trial comparing the efficacy of surgery, radiation and injection of murine cells producing herpes simplex thymidine kinase vector followed by intravenous ganciclovir against the efficacy of surgery and radiation in the treatment of newly diagnosed, previously untreated glioblastoma. **Bernstein MA, Rutka JT**: Sandoz Canada Incorporated (\$250,000 1996 - 1997)

Role of Gli transcription factors in the pathogenesis of medulloblastoma. **Taylor M**, Rutka J: Brainchild (\$50,750 2001 - 2003)

Novel pharmacological treatment of murine medulloblastoma. **Rutka J**, Mainprize T: Brainchild (\$20,000 2001 - 2002)

Characterisation of the ARF/DAXX interaction in human astrocytomas. **Rutka JT**, Ivanchuk S: Brainchild, c/o The Hospital For Sick Children (\$11,000 2002)

Determination of novel genes expressed by Paediatric Ependymomas. **Rutka JT**: b.r.a.i.n.child (\$20,000 2003 - 2004)

Eppendorf Thermomixer, Mini-Protean 3 Electrophoresis System and Pipettes. **Rutka JT**: b.r.a.i.n.child (\$6,682 2003 - 2004)

The role of Glial Cells Missing in brain development and Cancer. **Rutka, JT**: b.r.a.i.n.child (\$20,000 2003 - 2004)

Transcriptional Basis for the formation of isochromosome 17q in Medulloblastoma. **Rutka JT**: b.r.a.i.n.child (\$20,000 2003 - 2004)

VEGF polymorphisms in medulloblastomas. **Rutka JT**: Brainchild (\$25,620 2005 - 2006)

BTRC Pediatric Brain Tumor repository and database for brain tumors and associated blood. **Rutka JT**: b.r.a.i.n.child (\$24,585 2009)

SPINT2 Mouse Model of Medulloblastoma BC 09-07. **Rutka JT**: Brainchild (\$22,000,000 2009)

Effects of dysregulated HGF/cMet signalling on cerebellar development and medulloblastoma formation. **Onvani S**, Rutka JT: b.r.a.i.n.child (\$23,645 2010)

Mouse modeling the loss of Ect2 and its implications in brain tumors and brain development. **Weeks A**, Rutka JT: b.r.a.i.n.child (\$23,700 2010)

Optimized delivery of small molecules designed to prevent spreading in a mouse model of astrocytoma. **Etame A**, Rutka JT: b.r.a.i.n.child (\$23,000 2010)

Research Endeavours - Not Funded

Easing the Burden of End of Life Decision-Making: Learning from the Experiences of Parents. **Antle BJ**, Cottingham D, Ghilani K, Gorman E, Harrison C, Harrison C, Martin M, Rutka JT.

Prognostic significance of 1q gain in ependymona. **Rutka JT**

Protein markers in medulloblastomas. **Rutka JT**

Role of MAGE in medulloblastomas. **Rutka JT**

Patents

\$1,000 for graduate research. **Rutka JT**: University of California San Francisco Patent Fund Award. 1987

HONOURS AND AWARDS RECEIVED

Ontario Scholar. 1975

David Edward Mundell Prize in Orthopaedic Surgery, Queen's University. 1981

Dean Fowler Prize for highest standing in final year medical school, Queen's University. 1981

Edgar Forrester Scholarship for academic excellence, Queen's University. 1981

Hannah Washburn Polson Prize for Medicine, Surgery and Obstetrics, Queen's University. 1981

Medical Research Council of Canada, Research Fellowship Award, Brain Tumor Research Center, University of California, San Francisco (over 3 years). 1984

Craig Baldachin Memorial Travel Award, University of California, San Francisco. 1986

K.G. McKenzie Award for Neurosurgical Research, Division of Neurosurgery, University of Toronto. 1986

The D.R. Wilson Award for Teaching, Department of Surgery Undergraduate Education, University of Toronto. 1987

American Academy of Neurological Surgery Resident Research Award, Golden Anniversary Meeting, Cincinnati, Ohio. 1988

Gallie-Bateman Prize for Surgical Research, Department of Surgery, University of Toronto. 1988

Morley Prize for Neurosurgical Research, Division of Neurosurgery, University of Toronto. 1988

Congress of Neurological Surgeons Fellowship for Clinical Studies in Japan. 1990

Japan Society for the Promotion of Science Fellowship for Research Studies in the Department of Immunology, Juntendo University, Tokyo, Japan. 1990

Kenichiro Sugita Clinical Scholar for Neurosurgical Study in Japan. 1990

Ontario Ministry of Health Career Scientist Award (3 Years). 1990

Roscoe Reid Graham Fellowship, Department of Surgery, University of Toronto. 1990

World Health Organization Fellowship for Neurosurgical Studies in Japan. 1990

George Armstrong-Peters Prize, Department of Surgery, University of Toronto. 1994

Family Advisory Committee, Humanitarian Award, The Hospital for Sick Children. 1996

McKenzie, Johnson and Johnson Travelling Fellowship Award for Epilepsy Surgery. 1996

Medical Research Council of Canada, Career Scientist Award. 1999

AANS/CNS Joint Section On Tumors, Chairman 2001-2003. 2001

Lister Award, Department of Surgery, University of Toronto. 2001

Nation Builder Award, Science & Technology, Globe and Mail. 2002

Appointed American Association of Neurological Surgeons Board of Directors. 2003

Pre-Convocation Ceremony Invited Address, The Graduating Class of 2003, Faculty of Medicine, The University of Toronto. 2003

The Ronald L. Bittner Lecturer at the 2004 AANS Annual meeting in Orlando, Florida May 1-6. 2004

Grass Award at the Society of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, May 22-24. 2004

Farber Award 2005 AANS, New Orleans April 16-21. 2005

The Janes Visiting Professorship of the Royal College of Physicians and Surgeons of Canada. 2005

Knight of the Order of Smile by Kawaler Orderu Usmiechu. 2006

5th Annual Charles H. Tator Surgeon-Scientist Mentoring Award, Department of Surgery, University of Toronto. 2006

Volunteer Service Award Certificate from the Ministry of Ontario. 2009

Honored Guest of the Congress of Neurological Surgeons, Annual Meeting, New Orleans October 24th-29th. 2009

President of the American Association of Neurological Surgeons. 2010

Penfield Lecture, 45th Annual Congress of the Canadian Neurological Sciences Federation, Quebec, On June 8th-11th. 2010

COMMITTEE INVOLVEMENT**University of Toronto, Faculty of Medicine Committees**

- Search Committee for Dean, Faculty of Medicine, Member
Jan 15, 1999 - Jun 30, 2000
- Faculty of Medicine, Decanal Promotions Committee, Member
Feb 10, 1999 - Feb 20, 2002
- Search Committee for Division of Neurology Chair 2000,
2000 - 2001
- Neuropathology Internal Review Committee, Committee Member
Oct 28, 2005
- Search Committee, Member, Search Committee Dept Surgery Chair
Dec 17, 2007

Department of Surgery Committees

- Neurotrauma Committee, Division of Neurosurgery, Hospital for Sick Children Representative
1992 - 1998
- Neuro-Oncology Committee, Division of Neurosurgery, Chairman
1993 - 1999
- Division Chairs Committee, Member
1999 - Present
- Senior Advisory Committee, Member
1999 - Present
- Education Search Committee, U of T, Member
May 6, 2008

Hospital Committees

- Steering Committee HSC/Kiwanis Injury Prevention & Research, The Hospital for Sick Children, Toronto, Ontario, Member
1991 - 1998
- Trauma Advisory Committee, The Hospital for Sick Children, Toronto, Ontario, Member
1991 - 1998
- Trauma Care Committee, The Hospital for Sick Children, Toronto, Ontario, Division of Neurosurgery Representative
1991 - 1998
- Management Committee, The Hospital for Sick Children, Toronto, Ontario, Department of Surgery Representative
1994 - 1996
- Research Ethics Board, The Hospital for Sick Children, Toronto, Member
1995 - 1997

- 2005 - 2006 Annual Meeting Chairman, San Francisco, California, Chairman
- 2005 - 2006 Education and Maintenance of Certification Committee, Member
- 2006 - 2009 Secretary
- 2009 - 2010 President Elect
- May 1, 2010 - May 1, 2011 President

American Association of Neurological Surgeons/Congress of Neurological Surgeons Joint Section Activities

- 1991 - Present Section on Neurotrauma and Critical Care, Member
- 1991 - Present Section on Tumors, Member
- 1996 - Present Section on Pediatrics, Member
- 1998 Section on Tumors, Chair, Scientific Program Committee
- 1999 - 2001 Secretary Treasurer, Section on Tumors
- 2001 - 2003 Chairman, Section on Tumors

American College of Surgeons Oncology Group

- 2002 ACOSOG, Brain Organ Site Committee, Member
- 2002 International Relations Committee, Member

Brain Tumor Foundation of Canada

- 2003 Advisory Committee Member

Canadian Cancer Society

- Aug 1, 2009 - Aug 1, 2012 Board of Directors at Large, Board of Director at Large

Canadian Neurosurgical Society

- 1990 Member
- 1992 - 1998 McKenzie Prize Award Committee, Member

Congress of Neurological Surgeons

- 1996 Annual Meeting, Luncheon Seminars Committee, Co-Chair, Montreal, Quebec
- 1996 International Committee, Member
- 2001 - 2003 Executive Committee, Member-at-Large
- 2002 - 2007 Nominating Committee
- 2008 Special Committee for Governance and Administration of Neurosurgery, CNS Committee
- 2009 Honored Guest, CNS

Current Trends in Neurology: Research Trends

2003 Editorial Advisory Board

Fifth Canadian Congress of Neuro-Oncology

1992 Local Organizing Committee, Member, Huntsville, Ontario

Heart and Stroke Foundation of Ontario

1995 Special Stroke Initiative, Review Committee, Member

Journal of Clinical Neuroscience

Sep 2008 Editorial Board, Editorial Board

Journal of Neuro-Oncology

1992 - Present Editorial Board, Member

Journal of Neurosurgery

1997 - Present Editorial Board. Member

Journal of the Korean Neurosurgical Society

2005 - Present International Advisory Board of the Journal of the Korean Neurosurgical Society, Member

Medical Research Council of Canada, Pathology and Morphology Grants Committee

2000 Nominating Committee, Selection Committee Member

Ministry of Health and Longterm Care (MOHLTC)

2007 - Present Neurosurgery Expert Panel and Neurosurgery Wait Times Strategy, Chair

Molecular and Chemical Neuropathology Journal

1991 Ad hoc Reviewer

National Cancer Institute of Canada

2006 - 2008 Panel B1, Cancer Progression and Metastasis, Grant Panel Member

Jan 22, 2007 - Jan 23, 2007 Review Panel

Jun 1, 2009 Panel F Chair NCIC

National Institute of Health, National Cancer Institute, National Institute of Neurological Disorders and Stroke

2000 National Cancer Institute, NINDS, Brain Tumor Progress Review Group Roundtable Meeting, Committee Member

National Institute of Health, USA

1992 Study Section, Section A, Brain Tumor Feasibility Grants, Invited Reviewer

National Institutes of Health, National Institute of Neurological Disorders and Stroke

Oct 4, 2009 - Oct 6, 2009 Board of Scientific Counselors, National Institutes of Health, Board of Scientific Counselors

Nature Medicine

2003 - Present Ad hoc Reviewer

Neurologia Medico-Chirurgica

Jan 1, 1997 - Present Editorial Board, Member and Commentator

Neurosurgery

1993 - Present Editorial Board, Member

Neurosurgery Research and Education Foundation

2001 - Present American Association of Neurological Surgeons (AANS), Executive Council Member

Neurosurgical Review

2005 - Present Editorial Board, Member

Pediatric Neurosurgery

2002 - 2006 Editorial Board, Member

Research Trends "Current Trends in Neurology"

May 21, 2003 Editorial Advisory Board

Society of Neurological Surgeons

2000 - Present Member

2002 - 2005 Executive Council, Member-at-Large

Society of Neurological Surgeons

2003 - Present Undergraduate Education Committee, Member

Textbook of Neuro-Oncology

2004 - 2005 Associate Editor, Elsevier and Saunders Publishing

The Japan Neurosurgical Society

2007 - Present Honorary Membership

The Journal of Histochemistry and Cytochemistry

2000 - Present Editorial Board, As hoc Reviewer

The World Federation of Neurological Surgeons

2007 - 2008 Nominating Committee, Chairman

The World Federation of Neurological Surgeons

2001 - 2005 Neuro-Oncology Committee, Chairman, Scientific Program Chair

2001 - 2005 Nominating Committee, Chairman

The World Federation of Neurosurgical Surgery

2005 - 2009 Assistant Secretary XIV World Congress of Neurological Surgery, Boston Massachusetts

University-Industry Committee CIHR

2003 Grant Committee, Committee Member

MEDICAL/SCIENTIFIC ORGANIZATIONS-MEMBERSHIPS

- American Academy of Neurological Surgery

- American Academy of Pediatrics

- American Association for Cancer Research

- American Association of Neurological Surgeons
- American College of Surgeons
- Canadian Brain Tumor Consortium
- Canadian Congress of Neurological Surgeons
- Canadian Medical Association
- Canadian Neurosurgical Society
- College of Physicians and Surgeons of Ontario
- Congress of Neurological Surgeons of the United States
- International Society for Pediatric Neurosurgery
- North American Skull Base Society
- Ontario Medical Association
- Princeton University Neurosurgical Society
- Society of Neurological Surgeons

CLINICAL AND APPLIED BASIC RESEARCH

Gene bank Submission: AY081818-AY081829

Authors: Taylor M, Liu L, Raffel C, Hu C, Mainprize T, Zhang X, Agatep B, Chiappa S, Gao L, Lowrance A, Hao A, Goldstein A, Stavrou T, Scherer S, Dura W, Wainwright B, Squire J, Rutka JT, Hogg D

Title: Mutations in SUFU predispose to medulloblastoma

Journal: Nature Genetic 31 (3), 306-310 (2002)

Medline: 22084371

Pubmed: 12068298

PRACTICE INTERESTS AND AREAS OF SUBSPECIALIZATION

Pediatric Neuro-Oncology

Pediatric Epilepsy