



CURRICULUM VITAE  
ALESSANDRO OLIVI, M.D.  
August 2009

**Demographic Information**

Current Appointments

Professor of Neurosurgery and Oncology  
The Johns Hopkins University School of Medicine

Director of Division of Neurosurgical Oncology  
Department of Neurosurgery  
The Johns Hopkins University School of Medicine

Vice Chairman, Department of Neurosurgery  
The Johns Hopkins University  
Baltimore, Maryland

Chairman, Department of Neurosurgery  
Johns Hopkins Bayview Medical Center

Medical Director, NCCU  
Johns Hopkins Bayview Medical Center  
Baltimore, Maryland

Personal Data

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Education and Training

Undergraduate Education:  
Liceo Classico "Tito Livio"  
Padova, Italy (1968-1973)

M.D., Summa Cum Laude  
University of Padova Medical School  
Padova, Italy (1973-1979)

Clinical Rotations in Neurosurgery  
University of California at San Diego  
San Diego, California (Dec 1977-April 1979, February 1980)

Neurosurgery Fellowship  
University of Padova  
Padova, Italy (1979-1982)

General Surgery Internship  
Good Samaritan Hospital  
Cincinnati, Ohio (1982-1983)

Neurosurgery Residency  
Mayfield Neurological Institute  
University of Cincinnati  
Cincinnati, Ohio (July 1983-Dec 1986)

Chief Resident, Neurosurgery  
Mayfield Neurological Institute  
University of Cincinnati  
Cincinnati, Ohio (Jan 1987-June 1988)

Clinical and Research Fellowship in Neuro-Oncology and Neurosurgery  
Johns Hopkins University  
Baltimore, Maryland (July 1988-June 1991)

#### Professional Experience

Position	Institution	Dates
Assistant Professor Neurosurgery	The Johns Hopkins University Baltimore, Maryland	6/91-6/94
Associate Chief for Clinical Practice Neurosurgery	Francis Scott Key Medical Center The Johns Hopkins Hospital Baltimore, Maryland	5/92-6/94
Associate Professor Neurosurgery	The Johns Hopkins University Baltimore, Maryland	6/94-6/02
Chairman Neurosurgery	The Johns Hopkins Bayview Medical Center, Baltimore, MD	6/94-present
Medical Director	Neuroscience Critical Care Unit The Johns Hopkins Bayview Med Ctr.	12/94-present
Associate Professor Oncology	The Johns Hopkins University Baltimore, Maryland	12/94-present
Director Division of Neurosurgical Oncology	The Johns Hopkins University Baltimore, Maryland	9/00-present

Vice Chairman Department of Neurosurgery	The Johns Hopkins University Baltimore, Maryland	9/01-present
Professor Neurosurgery and Oncology	The Johns Hopkins University Baltimore, Maryland	7/02-present

## Research Activities

### Publications

#### Peer-reviewed articles

1. Gerosa MA, Olivi A, Longatti PL, Teolato S, Carteri A. "CSF levels of cyclic nucleotides and adrenergic metabolites in malignant gliomas." Surgical Neurology 13:359-362, 1980.
2. Gerosa MA, Olivi A, Longatti PL, Mietto L, Teolato S, Carteri A. "Longitudinal investigation of CSF levels of cyclic nucleotides and adrenergic metabolites in non-neoplastic hydrocephalus." Advances in Neurosurgery 8:394-399, 1980.
3. Gerosa MA, Semenzato G, Amadori G, Olivi A, Rotilio A, Zuccarello M. "Clinical and experimental immunobiology of medulloblastomas." Surgical Neurology 14:193-195, 1980.
4. Gerosa MA, Olivi A, Longatti PL, Toffano G, Carteri A. "Cyclic nucleotides in medulloblastomas: Correlative study of tumoral and cerebrospinal fluid levels." Neurosurgery 7:359-362, 1980.
5. Gerosa MA, DiStefano E, Olivi A. "VM-26 monochemotherapy trial in the treatment of recurrent supratentorial gliomas: Preliminary report." Surgical Neurology 15:128-134, 1981.
6. Gerosa MA, Olivi A, Longatti PL, Teolato S, Carteri A. "Cerebrospinal fluid levels of cyclic nucleotides and monoaminergic metabolites in subarachnoid hemorrhage: Preliminary report." Neurochirurgia 24:64-66, 1981.
7. Gerosa MA, Semenzato G, Amadori G, Olivi A, Rotilio A, Zuccarello M, Iraci G. "Long-term immunological investigation of malignant intracranial gliomas." Surgical Neurology 16:48-52, 1981.
8. Longatti PL, Gerosa MA, Pardatscher K, Olivi A, Zampieri P, Drigo P, Carteri A. "Incidence and CT scan features of hydrocephalus in newborns with myelomeningocele." Kinderchirurgie 34:151-153, 1981.
9. Gerosa MA, Olivi A, DiStefano E, Carteri A. "Multidisciplinary treatment of medulloblastoma: A 5-year experience with the SIOP trial." Child's Brain 8:107-118, 1981.
10. Gerosa MA, Olivi A, Rosenblum ML, Semenzato GP, Pezzuto A. "Impaired immunocompetence in malignant gliomas: The possible role of T lymphocyte subpopulations." Neurosurgery 10:171-173, 1982.
11. Longatti PL, Gerosa MA, Olivi A, Carteri A. "Intracranial pressure patterns in the shunt-dependent hydrocephalus." Monogr Neural Sci 8:112-116, 1982.
12. Olivi A, Gerosa MA, Fiore DL. "Craniostenosi associata ad idrocefalo. Caso clinico." Quaderni di Radiologia 47:1-6, 1982.
13. Olivi A, Gerosa MA, Iraci G, Fiore DL. "Ematoma extradurale cronico del vertice: Case report." Quaderni di Radiologia 47, 1982.

14. Iraci G, Pardatscher K, Gerosa MA, Fiore DL, Tomazzoli L, Secchi AG, Olivi A, Tormene AP, Carli M. "Opto-chiasmatic arachnoiditis in children." Child's Brain 10:48-66, 1983.
15. Iraci G, Gerosa MA, Secchi A, Fiore DL, Pardatscher K, Javicoli R, Tomazzoli L, Giordano R, Secchi A, Olivi A, Galligioni F, Peserico L. "Exophthalmos from vascular orbital and retroorbital lesions. Neurosurgical experience of 84 cases." Orbit 2:11-26, 1983.
16. McLaurin R, Olivi A. "Slit ventricle syndrome, Review of 15 cases." Pediatric Neuroscience 13:118-124, 1987.
17. Weil SM, Olivi A, Greiner AL, Tobler WD. "Multiple intracranial aneurysms in identical twins." Acta Neurochirurgica 95:121-125, 1988.
18. Olivi A, Donehower R, Mann R, Brem H. "Solitary, isolated metastasis from Ewing's sarcoma to the brain: case report." Surgical Neurology 35:239-43, 1991.
19. Domb A, Bogdansky S, Olivi A, Judy K, Dureza C, Lenartz D, Pinn ML, Colvin OM, Brem H. "Controlled delivery of water soluble and hydrolytically unstable anti-cancer drugs for polymeric implants." Polymer Preprints 32(2): 219-220, 1991.
20. Weingart J, Olivi A, and Brem H. "Supratentorial low-grade astrocytomas in adults." Neurosurgery Quarterly 1:141-159, 1991.
21. Brem H, Domb A, Lenartz D, Dureza C, Olivi A, Epstein JI. "Brain biocompatibility of a biodegradable controlled release polymer consisting of anhydride copolymer of fatty acid dimmer and sebacic acid." Journal of Controlled Release 19:325-330, 1992.
22. Olivi A, Kim KD, Benedetti L, Epstein JI, Pinn, ML, Callegaro L, and Brem H. "Ocular and brain biocompatibility of polymeric delivery materials prepared from ester derivatives of hyaluronic acid." Journal of Clinical Materials 13:163-168, 1993.
23. Olivi A, Gilbert M, Duncan KL, Corden B, Lenartz D, Pinn ML, Brem H. "Direct delivery to the central nervous system of platinum based antineoplastics: A toxicity and ultrastructural study." Cancer Chemotherapy and Pharmacology 31:449-454, 1993.
24. Ziedman SM, Olivi A. "Cervical intramedullary hemorrhage as a result of anti-coagulant therapy." Journal of Spinal Disorders 6(5): 456-458, 1993.
25. Olivi A, Brem H. "Interstitial chemotherapy with sustained-release polymer systems for the treatment of malignant gliomas." Recent Results in Cancer Research 135:149-154, 1994.
26. Brem H, Tamargo RJ, Olivi A, Pinn ML, Weingart JD, Wharam M, Epstein JI. "Biodegradable polymers for controlled delivery of chemotherapy with and without radiation therapy in the monkey brain." Journal of Neurosurgery 80:283- 290, 1994.
27. Pitha J, Gerloczy A, Olivi A. "Parenteral Hydroxy propyl Cyclodextrins: Intravenous and Intracerebral Administration of Lipophiles." Journal of Pharmaceutical Sciences. 83:833-837, 1994.
28. Oliverio P, Monsein L, Royal WR, Olivi A, Utset M, Brem H. "Pitfall of MR in a patient with spinal ependymoma and drop metastasis." American Journal of Neuroradiology 15:1966-67, 1994.
29. Judy K, Olivi A, Buahin KG, Domb A, Epstein JI, Colvin OM, Brem H. "Effectiveness of Controlled release of a cyclophosphamide derivative with polymers is effective against rat gliomas." Journal of Neurosurgery 82:103-108, 1995.

30. Ziedman SM, Geisler FH, Olivi A. "Intraventricular Rupture of a Purulent Brain Abscess: Case Report." Neurosurgery 36:189-193, 1995.
31. Walter KA, Tamargo RT, Olivi A, Burger PC, Brem H. "Intratumoral chemotherapy." Neurosurgery 37:1129-1145, 1995.
32. Judy K, Olivi A, Buahin KG, Domb A, Epstein JL, Colvin OM, Brem H. "Effectiveness of controlled release of a cyclophosphamide derivative with polymers against rat gliomas." Journal of Neurosurgery 82:103-108, 1995.
33. Olivi A, Ewend MG, Utsuki T, Domb A, Brem H. "Interstitial delivery of carboplatin via biodegradable polymers is effective against experimental glioma in the rat." Cancer Chemotherapy and Pharmacology 39:90-96, 1996.
34. Utsuki T, Brem H, Pitha J, Loftsson T, Kristmundsdottir, Tyler BM, Olivi A. "Potentiation of anticancer effects of microencapsulated carboplatin by hydroxypropyl a-cyclodextrin." Journal of Controlled Release 40:251-260, 1996.
35. Norris L, Grossman S, Olivi A. "Neoplastic meningitis following surgical resection of isolated cerebellar metastasis: a potentially preventable complication." Journal of Neuro-Oncology 32:215-223, 1997.
36. Ho L, Olivi A, Cho C, Burger P, Simeone F, Tihan T. "Well-differentiated papillary adenocarcinoma arising in a supratentorial enterogenous cyst: case report." Neurosurgery 43:1474-1473, 1998.
37. Clatterbuck RE, Sampath P, Olivi A. "Transitional cell carcinoma presenting as a solitary brain lesion: a case report and review of the world literature." Journal of Neuro-Oncology 39(1):91-94, 1998.
38. Brown H, Burger P, Olivi A, Sills A, Barditch CP, Lee R. "Intracranial leiomyosarcoma in a patient with AIDS." Neuroradiology 41:35-39, 1999.
39. Skolasky R, DalPan G, Olivi A, Lenz F, Abrams R, McArthur J. "HIV-associated primary CNS lymphomas. Morbidity and utility of brain biopsy." Journal of Neurological Sciences 163:32-38, 1999.
40. Kaplan PW, Kerr DA, Olivi A. "Ictus exceptoratus: a sign of complex partial seizures usually of non-dominant temporal lobe origin." Seizure 8(8):480-484, 1999.
41. Brown HG, Burger PC, Olivi A, Sills AK, Barditch-Crovo PA, Lee RR. "Intracranial leiomyosarcoma in a patient with AIDS." Neuroradiology 41(1):35-39, 1999.
42. DiMeco F, Rhines LD, Hanes J, Tyler BM, Brat D, Torchiana E, Guarnieri M, Finocchiaro G, Colombo MP, Pardoll DM, Brem H, Olivi A. "Paracrine delivery of IL-12 against intracranial 9L gliosarcoma in rats." Journal of Neurosurgery 92:419-427, 2000.
43. Olivi A, DiMeco F, Bohan E, Brem H. "Developing new methods for the treatment of malignant brain tumours: local delivery of anti-neoplastic agents using biodegradable polymers." Forum (Genova) 10:152-163, 2000.
44. DiMeco F, Clatterbuck RE, Li KW, McCarthy EF, Olivi A. "Synovitis, acne, pustulosis, hyperostosis, and osteitis syndrome presenting as a primary calvarial lesion - Case report and review of the literature." Journal of Neurosurgery 93(4):693-697, 2000.
45. Tsai V, Kim S, Clatterbuck R, Ewend M, and Olivi A. "Cystic Prostate Metastases to the Brain parenchym: Report of Two Cases and Review of the Literature." Journal of Neuro-Oncology 51:167-173, 2001.

46. Moriarity JL, Lim M, Storm PB, Beauchamp NJ, Olivi A. "Reversible Posterior Leukoencephalopathy Occurring during Resection of a Posterior Fossa tumor: Case Report and Review of the Literature." Neurosurgery 49:1237-1240, 2001.
47. Lesniak MS, Tihan T, Olivi A. "Solitary central nervous system metastasis from acinic cell carcinoma of the parotid gland." Journal of Otolaryngology 31: 38-41, 2002.
48. Gailloud P, Martin JB, Olivi A, Rüfenacht DA, Murphy KJ. "Transoral Vertebroplasty for a Fractured C2 Aneurysmal Bone Cyst." Journal of Vascular Interventional Radiology 13: 340-341, 2002.
49. Carson BS, Wu Q, Tyler B, Sukay L, Raychaudhuri R, DiMeco F, Clatterbuck RE, Olivi A, Guarnieri M. "New approach to tumor therapy for inoperable areas of the brain: chronic intraparenchymal drug delivery." Journal of Neuro-Oncology 60:151-158, 2002.
50. DiMeco F, Li KW, Tyler BM, Wolfe AS, Brem H, Olivi A. "Local delivery of mitoxantrone for the treatment of malignant brain tumors in rats." Journal of Neurosurgery 97:1173-1178, 2002.
51. Komotar RI, Olivi A, Rigamonti D, Tamargo R. "Microsurgical Fenestration of the Lamina Terminalis Reduces the Incidence of Shunt-Dependent Hydrocephalus after Aneurysmal Subarachnoid Hemorrhage." Neurosurgery 51:1403-1413, 2002.
52. Nahabedian MY, Chevray P, Olivi A, Manson P. "Case Report: Clinically Manifested Frontal Lobe Compression after Anterior Craniectomy and Deep Inferior Epigastric Perforator Flap Reconstruction." Plastic and Reconstructive Surgery 112:1040-1045, 2003.
53. Margalit E, Weiland JD, Clatterbuck RE, Fujii GY, Maia M, Tameesh M, Torres G, D'Anna SA, Desai S, Piyathaisere DV, Olivi A, de Juan E Jr, Humayun MS. "Visual and electrical evoked response recorded from subdural electrodes implanted above the visual cortex in normal dogs under two methods of anesthesia." Journal of Neuroscience Methods 123:129-137, 2003.
54. Parwani AV, Taylor DC, Burger PC, Erozan YS, Olivi A, Ali SZ. "Keratinized Squamous Cells in Fine Needle Aspiration of the Brain: Cytopathologic Correlates and Differential Diagnosis." Acta Cytologica 47:325-331, 2003.
55. Seidel G, Pardo CA, Newman-Toker D, Olivi A, Eberhart CG. "Neurobrucellosis Presenting as Leukoencephalopathy: The Role of Cytotoxic T Lymphocytes." Archives of Pathology and Laboratory Medicine 127: 374-377, 2003.
56. Hammoud D, Gailloud P, Olivi A, Murphy KJ. "Acute Vasogenic Edema Induced by Thrombosis of a Giant Intracranial Aneurysm: A Cause of Pseudostroke after Therapeutic Occlusion of the Parent Vessel." American Journal of Neuroradiology 24:1237-1239, 2003.
57. Olivi A, Grossman SA, Tatter S, Barker F, Judy K, Olsen J, Bruce J, Hilt D, Fisher J, and Piantadosi S. "Dose Escalation of Carmustine in Surgically Implanted Polymers in Patients with Recurrent Malignant glioma: a New Approaches to Brain Tumor Therapy CNS Consortium Trial." Journal of Clinical Oncology 21:1845-1849, 2003.
58. Lucey BP, Tihan T, Pomper MG, Olivi A, Laterra J. "Spinal Meningioma Causing Diffuse Leptomeningeal Enhancement." Neurology 60:350-351, 2003.
59. Tihan T, Viglione M, Rosenblum MK, Olivi A, Burger P. "Solitary Fibrous Tumors in the Central Nervous System: A Clinicopathologic Review of 18 Cases and Comparison to Meningeal Hemangiopericytomas." Archives of Pathology and Laboratory Medicine 127:432-439, 2003.

60. Olivi A. "Brain and nervous system." Current Opinion in Oncology 15:187, 2003 (Editorial Overview)
61. Legnani FG, Pradilla G, Wang PP, Brem H, Olivi A, DiMeco F. "Local delivery of antineoplastic agents using biodegradable polymers for the treatment of malignant brain tumors." Expert Review Neurotherapeutics 3(4):533-546, 2003.
62. Rhines LD, Sampath P, DiMeco F, Lawson HC, Tyler BM, Hanes J, Pardoll D, Olivi A, Brem H. "Local immunotherapy with interleukin-2 delivered via biodegradable polymer microspheres combined with interstitial chemotherapy: A novel treatment for experimental malignant glioma." Journal of Neurosurgery 52:872-880, 2003.
63. Kleinberg L, Weingart J, Burger P, Carson K, Grossman SA, Li K, Olivi A, Wharam MD, Brem H. "Clinical Course and Pathologic Findings After Gliadel® and Radiotherapy for Newly Diagnosed Malignant Glioma: Implications for Patient Management." Cancer Investigation, 22:1-9, 2004.
64. Komotar RJ, Burger PC, Carson BS, Brem H, Olivi A, Goldthwaite, PT, Tihan, T. "Pilocytic and Pilomyxoid Hypothalamic/Chiasmatic Astrocytomas." Journal of Neurosurgery 54: 72-80, 2004.
65. Wang M, Murphy KM, Kulesza P, Hatanpaa KJ, Olivi A, Tugaro A, Erozan Y, Westra WH, burger PC, Berg KD. "Molecular diagnosis of metastasizing oligodendroglioma: a case report." Journal of Molecular Diagnostics 6:52-57, 2004.
66. Guerin C, Olivi A, Weingart JD, Lawson HC, Brem H. "Recent advances in brain tumor therapy: local intracerebral drug delivery by polymers." Investigational New Drugs 22:27-37, 2004
67. Frazier J, Garonzik I, Tihan T, Olivi A. "Recurrent gliependymal cyst of the posterior fossa: an unusual entity containing mixed glial elements: Case Report." Journal of Neuro-Oncology 68: 13-17, 2004.
68. Caturegli P, Newschaffer C, Olivi A, Pomper MG, Burger PC, Rose NR. "Autoimmune Hypophysitis." Endocrine Reviews 2005.
69. Koenig MA, Geocadin RG, Kulesza P, Olivi A, Brem H. "Rhabdoid meningioma occurring in an unrelated resection cavity with leptomeningeal carcinomatosis." Journal of Neurosurgery 102:371-375, 2005.
70. McGirt MJ, Woodworth GF, Coon AL, Frazier JM, Amundson E, Garonzik I, Olivi A, Weingart JD. "Independent predictors of morbidity after image-guided stereotactic brain biopsy: a risk assessment of 270 cases." Journal of Neurosurgery 102(5):897-901, 2005.
71. Amundson EW, McGirt MJ, Olivi A. "A contralateral, transfrontal, extraventricular approach to stereotactic brainstem biopsy procedures." Journal of Neurosurgery 102:565-570, 2005.
72. Raza SM, Pradilla G, Legnani FG, Thai QA, Olivi A, Weingart JD, Brem H. "Local delivery of antineoplastic agents by controlled-release polymers for the treatment of malignant brain tumors." Expert Opinion on Biological Therapy 5(4):477-494, 2005.
73. Woodworth G, McGirt MJ, Samdani A, Garonzik I, Olivi A, Weingart JD. "Accuracy of frameless and frame-based image-guided stereotactic brain biopsy in the diagnosis of glioma: comparison of biopsy and open resection specimen." Neurological Research 27(4):358-62, 2005.
74. Chan TA, Weingart JD, Parisi M, Hughes MA, Olivi A, Borzillary S, Alahankone D, Detorie NA, Wharam MD, Kleinberg L. "Treatment of recurrent glioblastoma multiforme with GliaSite brachytherapy." International Journal of Radiation Oncology Biology Physics 62(4):1133-39, 2005.

75. Pradilla G, Legnani FG, Petangolini G, Francescato P, Chillemi F, Tyler BM, Gaini M, Brem H, Olivi A, DiMeco F. "Local delivery of a synthetic endostatin fragment for the treatment of experimental gliomas." Journal of Neurosurgery 57(5): 1032-1040, 2005.
76. Gallia GL, Sciubba DM, Hann CL, Raman SP, Westra WH, Fugaro AP, Olivi A. "Synovial sarcoma of the frontal sinus: Case report." Journal of Neurosurgery 103:1077-1080, 2005.
77. Legnani FG, Pradilla G, Thai QA, Fiorindi A, Recinos PF, Tyler BM, Gaini SM, DiMeco F, Brem H, Olivi A. "Lactacystin exhibits potent anti-tumor activity in an animal model of malignant glioma when administered via controlled-release polymers." Journal of Neuro-Oncology 77:225-32, 2006.
78. Piccirillo SGM, Reynolds BA, Zanetti N, Lamorte G, Binda E, Broggi G, Brem H, Olivi A, Dimeco F, and Vescovi A.L. "Bone morphogenetic proteins inhibit the tumorigenic potential of human brain tumour-initiating cells." Nature 444:761-765, 2006.
79. Woodworth GF, McGirt MJ, Samdani A, Garonzik I, Olivi A, Weingart JD. "Frameless image-guided stereotactic brain biopsy procedure: diagnostic yield, surgical with the frame-based technique." Journal of Neurosurgery 104:233-237, 2006.
80. Chang S, Vogelbaum M, Lang F, Haines S, Kunwar S, Chiocca E, Olivi A, Parsa A, Warnick R. "GNOSIS: Guidelines for neuro-oncology standards for investigational studies: reported therapeutic clinical trials." Journal of Neuro-Oncology 82(2):211-20, 2007.
81. Gerber DE, Segal JB, Salhotra A, Olivi A, Grossman S, Streiff MB. "Venous thromboembolism occurs infrequently in meningioma patients receiving combined modality prophylaxis." Cancer 109(2):300-5, 2007.
82. Olivi A and Weingart J. "Local therapies of brain tumors with Gliadel (R) and GliaSite: the North American experience." Rivista Medica 13:1-5, 2007.
83. Chaichana KL, Capilla-Gonzalez V, Gonzalez-Perez O, Pradilla G, Han J, Olivi A, Garcia-Verdugo A, Quinones-Hinojosa, A. "Preservation of glial cytoarchitecture from ex vivo human tumor and non-tumor cerebral cortical explants: A human model to study neurological diseases." Journal of Neuroscience Methods 164(2):261-70, 2007.
84. Weingart J, Grossman SA, Carson KA, Fisher JD, Delaney SM, Rosenblatt ML, Tatter SB, Dolan ME. "Phase I trial of polifeprosan 20 with carmustine implant plus continuous infusion of intravenous O6-benzylguanine in adults with recurrent malignant glioma: new approaches to brain tumor therapy CNS consortium trial." Journal of Clinical Oncology 25:399-404, 2007.
85. Bar E E, Cahudry A, Lin A, Fan X, Schreck K, Matsui W, Vescovi AL, DiMeco F, Olivi A, and Eberhart CG. "Cyclopamine-Mediated hedgehog pathway inhibition depletes stem-like cancer cells in glioblastoma." Stem Cells 25(10):2524-33, 2007.
86. Mydlarz WK, Wu J, Aygun N, Olivi A, Carey JP, Westra WH, Tufano RP. "Management considerations for differentiated thyroid carcinoma presenting as a metastasis to the skull base." Laryngoscope 117(7):1146-52, 2007.
87. Lawson HC, Sampath P, Bohlen E, Park MC, Hussain N, Olivi A, Weingart J, Kleinberg L, Brem H. "Interstitial chemotherapy for malignant gliomas: the Johns Hopkins experience." Journal of Neuro-Oncology 83:61-70, 2007.
88. Brem SS, Bierman PJ, Black P, Brem H, Chamberlain MC, Chiocca EA, DeAngelis LM, Fenstermaker RA, Friedman A, Gilbert MR, Glass J, Grossman SA, Heimberger AB, Junck L, Linette GP, Loeffler JJ, Maor MH, Moots P, Mrugala M, Nabors LB, Newton HB, Olivi A, Portnow J,

Raizer JJ, Shrieve DC, Sills AK Jr. "Central nervous system cancers." Journal of the National Comprehensive Cancer Network 6(5):456-504. 2008.

89. Than KD, Baird CJ and Olivi A. Polyethylene glycol hydrogel dural sealant may reduce incisional cerebrospinal fluid leak after posterior fossa surgery. Neurosurgery 63:182-86, 2008.

90. McGirt MJ, Chaichana KL, Gathinji M, Attenello F, Than K, Ruiz AJ, Olivi A and Quinones-Hinojosa A. Persistent outpatient hyperglycemia is independently associated with decreased survival after primary resection of malignant brain astrocytomas. Neurosurgery 63:286-91, 2008.

91. Zhang W, Olivi A, Hertig SJ, van Zijl P, and Mori S. Automated fiber tracking of human brain white matter using diffusion tensor imaging. Neuroimage 42:771-7, 2008.

92. Gathinji M, McGirt MJ, Attenello FJ, Chaichana KL, Than K, Olivi A, Weingart JD, Brem H, Quinones-Hinojosa A. Association of preoperative depression and survival after resection of malignant brain astrocytoma. Surg Neurol . 71(3):299-303, 2009.

93. Parsons DW, Jones S, Zhang X, Lin JC, Leary RJ, Angenendt P, Mankoo P, Carter H, Siu IM, Gallia GL, Olivi A.....Kinzler KW. An integrated genomic analysis of human glioblastoma multiforme. Science 321:1807-12, 2008.

94. McGirt MJ, Chaichana KL, Attenello FJ, Weingart JD, Than K, Burger PC, Olivi A, Breme H, Quinones-Hinojosa A. Extent of surgical resection is independently associated with survival in patients with hemispheric infiltrating low grade gliomas. Neurosurgery 63:700-7, 2008.

95. Attenello FJ, Mukherjee D, Datto G, McGirt MJ, Bohan E, Weingart JD, Olivi A, Quinones-Hinojosa A, Brem H. Use of Gliadel (BCNU) wafer in the surgical treatment of malignant glioma: a 10 year institutional experience. Am Surg Oncol . 15:2887-93, 2008.

96. McGirt MJ, Than KD, Weingart JD, Chaichana KL, Attenello FJ, Olivi A, Lattera J, Kleinberg LR, Grossman SA, Brem H, Quinones-Hinojosa A. Gliadel (BCNU) wafer plus concomitant temozolomide therapy after primary resection of glioblastoma multiforme. J Neurosurg, 110(3):583-8, 2008.

97. Chichana KL, McGirt MJ, Woodworth GF, Datto G, Tamargo RJ, Weingart J, Olivi A, Brem H, Quinones-Hinojosa A. Persistent outpatient hyperglycemia is independently associated with survival, recurrence and malignant degeneration following surgery for hemispheric low grade gliomas. Neurological Research (e-pub ahead of print), 2008.

98.. McGirt MJ, Chaichana KL, Gathinji M, Attenello FJ, than K, Olivi A, Weingart JD, Brem H, Quinones-Hinojosa AR. Independent association of extent of resection with survival in patients with malignant brain astrocytoma. J Neurosurg 110:156-62, 2009.

99. Chaichana KL, Parker SL, Olivi A, Quinones-Hinojosa A Long-term seizure outcomes in adult patients undergoing primary resection of malignant brain astrocytomas. J of Neurosurg 111(2):282-92, 2009.

100. Kleinberg L, Yoon G, Weingart JD, Parisi M, Olivi A, Detorie NA, Chan TA. Imaging after GliaSite Brachytherapy: Prognostic MRI indicators in disease control and recurrence. International J of Radiation Onc, Biology, Physics (e-pub ahead of print), 2009.

101. Chaichana KL, McGirt JM, Lattera J, Olivi A, Quinones-Hinojosa A. Recurrence and malignant degeneration after resection of adult hemispheric low-grade gliomas. J of Neurosurg (e-pub ahead of print), 2009.

102. Chaichana KL, McGirt MJ, Niranjan A, Olivi A, Burger PC, Quinones-Hinojosa A. Prognostic significance of contrast-enhancing low-grade gliomas in adults and a review of the literature. *Neurology Res.* (e-pub ahead of print), 2009.

**Book Chapters, Monographs:**

1. Olivi A, Waner M, Sawaya R, Wessler T, Cassini P, Liwnicz B, Pensak M, Tew JM Jr. "Photodynamic therapy of brain tumors: Studies on the distribution of Di-Hematoporphyrin Ether in normal and experimental neoplastic brain tissue in rats." In: Gerosa MA et al (Eds.) *Brain Tumors Biopathology and Therapy.* (Advances in Bioscience, Vol 58). 1987 Pergamon Press, pp. 154-167.
2. Olivi A, Sawaya R. "Photodynamic therapy of brain tumors." In: *Laser Applications in Neurosurgery.* Sawaya R, Tew JM Jr. (Eds). Hanley & Belfus: Nov. 1987:433-445.
3. Olivi A, Tew JM, Van Loveren H. "Fibromuscular Dysplasia: In Carotid Artery Disease." Woods, M (Ed.), Hanley and Belfus, May 1989.
4. Olivi A, Sawaya R, Liwnicz B. "Dexamethasone modulation of fibrinolysis": In *Fibrinolysis and the Central Nervous System.* Sawaya R (Ed.), Hanley and Belfus, 1990, pp. 294-300.
5. Olivi A, Domb A, Lenartz D, Tamargo R, Brem H: "Interstitial chemotherapy with drug impregnated polymer implants to treat brain tumors: Pre-clinical and clinical studies". In *Proceedings of the International Symposium on Advances in Neuro-Oncology,* Takakura, Paoletti, Walker (Eds), Kluwer Academic Publishers, San Remo, Italy, 1991, pp. 221-223.
6. Olivi A, Brem RF, McPherson R, Brem H. "Brain tumors in pregnancy. In *Neurological Complications of Pregnancy.*" Stern B (Ed.), Futura Publishing, 1992, pp 85-105.
7. Guerin, C, Tamargo, RJ, Olivi, A, Brem, H. "Brain tumor angiogenesis: Drug delivery and new inhibitors." In *Angiogenesis in Health and Diseases,* Maragoudakis, M.E. (Eds.), Plenum Press, 1992, pp 265-274.
8. Brem H, Tamargo RJ, and Olivi A. "Delivery of drugs to the brain by use of a sustained-release polyanhydride polymer system." In *New Technologies and Concepts for Reducing Drug Toxicities,* Salem, H. and Baskin, S.I. (Eds.) CRC Press, Boca Raton, Florida, 1993, pp 33-39.
9. Olivi A, Brem, H. "Interstitial chemotherapy with sustained-release poly mer systems for the treatment of malignant gliomas." In *Recent Results in Cancer Research,* Schlegel, U. (Eds.) Springer Verlag, Amsterdam, 1994, pp 149-154.
10. Brem H, Walter KA, Tamargo RJ, Olivi A, Langer RS. "Drug delivery to the brain." In *Polymer site-specific pharmaco-therapy,* Domb, A.J. (Eds.) John Wiley & Sons LTD, England), 1994, pp117-139.
11. Olivi, A and Lattera, J. "Brain Tumors in Women." In *Neurologic Disease in Women,* Kaplan, P.W. (Eds), 1998, pp. 355-361.
12. Lesniak, MS and Olivi, A. "Brain Metastasis from Gynecologic Cancers." In *Intracranial Metastases.* Sawaya, R. (Ed). Futura Publishing, in press, 2001.
13. Moriarity, JL, Storm, PB, and Olivi, A. "Central Nervous System Metastases." In *Current Therapy in Neurologic Disease: 6th edition,* Johnson, R.T., Griffin, J.W., McArthur, J.C. (Eds.) Mosby, Inc., St. Louis, Mo, 2002, pp 257-260.

14. DiMeco F, Petrangolini G, Rizzo R, Olivi A, Brem H. "Polimeri biodegradabili e rilascio locale di chemioterapici In La terapia Dei Tumori Cerebrali Maligni dell'Adulto e del Bambino." Editor, A. Sghirlanzoni, A. Boiardi (Springer-Verlag Italia Srl, Milano, Italia), pp. 139-145, 2002.
15. DiMeco F, Brem H, Weingart J, Olivi A. "Gliadel TM: A New Method for the Treatment of Malignant Brain Tumors." In Drug Delivery Systems for Cancer, Brown, D. (Eds.) Humana Press, Inc., Totowa, N.J. pp. 215-227, 2003.
16. Olivi, A, Rhines, LD, DiMeco, F. "Brain Tumors During Pregnancy. " In Youmans Neurological Surgery, 5 th edition, (Ed.) H. Richard Winn, M.D., (W. B. Saunders Company) Philadelphia, PA, chapter 45, pp. 1-10, 2003.
17. Gallia GL, Pomper MG, and Olivi A. "Chordoid Glioma of the Third Ventricle." In Textbook of Neuro-Oncology. (Ed.) Berger MS, M.D., Saunders, chapter 29, 2005.

### **Extramural Sponsorship**

#### Current Awards:

Title:	Controlled Release Polymers for Brain Tumors
Dates:	September 19, 2000-April 30, 2005
Sponsor:	National Institutes of Health/National Cancer Institute
Total Costs:	\$549,241/yr—NIH/NCDDG U19 CA 52857-12
P.I.:	Henry Brem, M.D.
Co-PI:	Alessandro Olivi, M.D. (5% support)
Title:	New Approaches to Brain Tumor Therapy: CNS Consortium
Dates:	March 21, 1994-December 31, 2002
Sponsor:	National Institutes of Health/ National Cancer Institute-NABBT
Total Costs:	\$631,179/NIH/NCI 1 U01 CA 62475-09
Total Direct Costs:	\$98,456
P.I.:	Henry Brem, M.D. and Stuart Grossman, M.D.
Co-PI:	Alessandro Olivi, M.D. (1%)
Title:	Consolidated Gift Account
Dates:	7/1/2001-present
Sponsor:	Gift Contributions
Total Costs:	\$68,424
P.I.:	Alessandro Olivi, M.D.

### **Previous Awards**

Title:	Polymeric delivery of platinum derivatives to treat brain tumors
Dates:	July 1992-June 1994
Sponsor:	The Johns Hopkins University, Baltimore, MD (Clinical Scientist Award)
Total Costs:	\$100, 000
P.I.:	Alessandro Olivi, M.D.
Title:	Prevention of epidural scarring following laminectomy
Dates:	March 1993-September 1993
Sponsor:	Focal Interventional Therapeutics, Cambridge, and Massachusetts
Total Costs:	\$39,790
P.I.:	Alessandro Olivi, M.D.
Title:	Prevention of epidural scarring following laminectomy
Dates:	March 1994-July 1994

Sponsor: Focal Interventional Therapeutics  
Total Costs: \$34,422  
P.I.: Alessandro Olivi, M.D.

Title: Cytokine enhanced local immuno-/chemotherapy of malignant brain tumors  
Dates: July 1998-June 2000  
Sponsor: Pediatric Brain Tumor Foundation, Asheville, North Carolina  
Total Costs: \$70,000  
P.I.: Alessandro Olivi, M.D.

Title: Local delivery of interleukin-12 from biodegradable microspheres for the treatment of experimental brain tumors  
Dates: February 2000  
Sponsor: Johns Hopkins Bayview Physicians, P.A., Baltimore, MD  
Total Costs: \$4,981  
P.I.: Alessandro Olivi, M.D.

**Clinical Protocols Approved by the Joint Committee on Clinical Investigation (JCCI) of Johns Hopkins Hospital:**

Safety and Efficacy of BCNU Delivered from a Biodegradable, Surgically Implanted Polymer for the Treatment of Grade III or IV Astrocytoma  
RPN No. 87-06-08-05 (1987-1988)  
Principal Investigator: Henry Brem, M.D.  
Co-Investigator: Alessandro Olivi, M.D.

A Double Blind, Placebo-Controlled Study of BCNU Delivered from a Biodegradable, Surgically Implanted Polymer for the Treatment of Recurrent Malignant Gliomas  
RPN No. 89-02-15-01 (1989-1992)  
Principal Investigator: Henry Brem, M.D.  
Co-Investigator: Alessandro Olivi, M.D.

Serum Evaluation for Tumor Markers  
RPN# 91-07-12-01 (June 15, 1991)  
Principal Investigator: Henry Brem  
Co-Investigator: Alessandro Olivi

Efficacy/Safety of Tirilazad Mesylate (U-74, 006F) in Patients with Subarachnoid Hemorrhage.  
RPN # 92-02-14-02 (1992-1998\* )  
Principal Investigator: Daniel F. Hanley, M.D.  
Co-Investigator: Alessandro Olivi, M.D.

Phase I, Open Label, Multi-center Dose Escalation Study of GLIADEL in Patients with Recurrent Malignant Glioma—NABTT (NIH) 9601  
RPN No. 96-08-26-01 (1996-2000)  
Principal Investigator: Alessandro Olivi, M.D.

A Multi-Center, Open Label Clinical Study to Evaluate the Safety and Performance of the Proxima GlioSite RTS, A Radiation Delivery System, in Patients with Recurrent Malignant Brain Tumors Undergoing Surgical Resection NABTT (NIH) 9801  
RPN No. 98-08-13-05 (1998-1999)  
Principal Investigator: Jon Weingart, M.D.  
Co-Investigator: Alessandro Olivi, M.D.

Phase I Gliadel R and Escalating Doses of Intravenous O6-Benzylguanine Trial in Patients with Recurrent Malignant Glioma—NABTT (NIH) 9803  
RPN No. 99-12-29-01 (1998-2002)  
Principal Investigator: Jon Weingart, M.D.  
Co-Investigator: Alessandro Olivi, M.D.

A Phase I, Open Label, Dose Escalation Trial of Intratumoral Injection with an E1B Attenuated Adenovirus, ONYX-015, into Recurrent Malignant Gliomas NABTT (NIH) 9701  
RPN No. 99-05-03-05 (1999-2002)  
Principal Investigator: Alessandro Olivi, M.D.

The Treatment of One or Two Supratentorial Brain Metastases with Surgical Resection and BCNU – Polymer Wafers—NABTT (NIH) 9802  
RPN No. 99-07-23-04 (1999-2002)  
Principal Investigator: Alessandro Olivi, M.D.

Interstitial Infusion of IL 13-PE38QQR Cytotoxin in Recurrent Malignant Glioma Phase I/II Study—NABTT (NIH) 9903  
RPN: 00-04-11-03 (2000-2004)  
Principal Investigator: Jon Weingart, M.D.  
Co-Investigator: Alessandro Olivi, M.D.

### **Educational Activities**

#### **Classroom Teaching**

Neurology course for third year medical student – Lecturer 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005

#### **Clinical Instruction**

Introduction to Clinical Medicine to first year medical students: 1997. Two students:  
-Jeanie Liu: presently Neurosurgery Resident at University of Texas at Galveston  
-Kenji Muro: presently Neurosurgery Resident at Northwestern. Chicago.

Establishment and conduction of a new Neurosurgery monthly rotation for General Surgery Residents. 1993-present. Rated for several years the top rotation by the General Surgery interns.

Rotations of senior Neurosurgical residents for 4-6 months at Bayview, with one-on-one intense training in clinical and operative general neurosurgical practice.

#### **Residents Trained**

1991-92--Seth Zeidman, M.D., University of Rochester, Neurosurgery, Rochester, NY  
1991-92--Eric Oshiro, M.D., Private Practice, Honolulu, Hawaii  
1992-93--Reid Thompson, M.D., Vanderbilt University, Neurosurgery, Nashville, TN  
1992-93--Eric Sipos, M.D., Private practice, Tucson, Arizona  
1993-94--Al Sills, M.D., University of Tennessee, Neurosurgery, Memphis, TN  
1993-94--Matthew Ewend, M.D., University of North Carolina, Neurosurgery, Chapel Hill, NC  
1994-95--Mark Watts, M.D., Henry Ford Hospital, Neurosurgery, Detroit, MI  
1994-95--Neal Naff, M.D., Private Practice, Baltimore, MD  
1995-96--John Davis, M.D., Private Practice, Jackson, MS  
1995-96--Prakash Sampath, M.D., Brown University, Neurosurgery, Providence, R.I.  
1996-97--Laurence Rhines, M.D., MD Anderson, Neurosurgery, Houston, TX.  
1996-97--Victor Perry, M.D., UCSF, Neurosurgery, San Francisco, CA  
1996-97--Tushar Goradia, M.D., Private Practice, Madison, WI.

1997-98--David Antezana, M.D., Johns Hopkins Hospital, Spine Fellow, Baltimore, MD  
 1997-98--Raymond Haroun, M.D, Jefferson University, Spine Fellow, Philadelphia, PA.  
 1998-99--Richard Clatterbuck, MD, Johns Hopkins, Instructor, Neurosurgery, Baltimore, MD  
 1998-99--Kevin Walter, M.D., Johns Hopkins, Instructor, Neurosurgery, Baltimore, MD  
 1998-99--John Moriarity, M.D., Johns Hopkins, Instructor, Neurosurgery, Baltimore, MD  
 1999-2000--Philip Storm, M.D., Johns Hopkins Hospital, Neurosurgery Resident, Baltimore, MD  
 1999-2000--Dean Chou, M.D., Johns Hopkins Hospital, Neurosurgery Resident, Baltimore, MD  
 1999-2000--Macej Lesniak, M.D., Johns Hopkins, Neurosurgery Resident, Baltimore, MD  
 2000-2001--Ira Garonzik, M.D., Johns Hopkins, Neurosurgery Resident, Baltimore, MD  
 2000-2001--Amer Samdani, M.D., Johns Hopkins, Neurosurgery Resident, Baltimore, MD  
 2000-2001--Paul Wang, M.D., Johns Hopkins, Neurosurgery Resident, Baltimore, MD  
 2001-2002--Richard Clatterbuck, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2001-2002--John Moriarity, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2001-2002--Kevin Walter, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2002-2003--Dean Chou, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2002-2003--Macej Lesniak, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2002-2003--Phillip J. Storm, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2003-2004--Ira Garonzik, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2003-2004--Paul Wang, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2003-2004--Amer Samdani, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2004-2005--Eric Amundson, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD  
 2004-2005--Sherwin Hua, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2004-2005--Nirit Weiss, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2005-2006--Michael Schlosser, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2005-2006--Jacob Schwarz, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2005-2006--Quoc-Anh Thai, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2006-2007--Gary Gallia, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2006-2007--Carlos Bagley, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2006-2007--Chris Lawson, M.D., Johns Hopkins, Neurosurgery, Resident, Baltimore, MD.  
 2007-2008--William S. Anderson, M.D., Johns Hopkins Neurosurgery, Resident, Baltimore, MD  
 2007-2008--James Conway, M.D., Ph.D., Johns Hopkins Neurosurgery, Resident, Baltimore, MD\  
 2007-2008--Khan Li, M.D., Johns Hopkins Neurosurgery, Resident, Baltimore, MD  
 2008-2009--Clint Baird, M.D., Johns Hopkins Neurosurgery, Resident, Baltimore, MD  
 2008-2009--Violette Recinos, M.D., Johns Hopkins Neurosurgery, Resident, Baltimore, MD  
 2008-2009--Dan Sciubba, M.D., Johns Hopkins Neurosurgery, Resident, Baltimore, MD.

### **Clinical Conferences**

Neuro-oncology Conference: Weekly conference for Neurosurgery, Oncology and Neurology residents: To educate them on brain tumors multidisciplinary management.

Director, Skull Base Conference: Once-a-month conference for neurosurgery, ENT, and oncology faculty and house staff: To educate them on skull base and acoustic neuroma tumors.

### **Surgical Education**

Prominent role in the education of Neurosurgery Chief resident in skull-base surgery, vascular surgery and brain tumor management.

### **Research fellows trained**

<b><u>Names</u></b>	<b><u>Dates</u></b>	<b><u>Subsequent Position</u></b>
Doris Lenartz, M.D.	08/89 – 10/90	Faculty Neurosurgeon Hospital Cologne-Merhaim Germany

Tadanobi Utsuki, Ph.D.	07/94 – 06/97	Faculty at NIH Private Industry
Francesco DiMeco, M.D. Recipient of the Harvey Cushing Hunterian Award 2000, Department of Neurosurgery, Johns Hopkins Hospital	07/97 – 09/00	Director of Neuro-oncological Research-Dept of Neurosurgery Isituto Neurologico Besta Milano - Italy
Gustavo Pradilla	12/01-06/02	Hunterian Lab Research Fellow Javeriana, Columbia
Federico Legnani	09/02-06/05	Hunterian Lab Research Fellow

### **Editorial Activities**

Grant review: Medical College of Pennsylvania and Hahnemann University and the Allegheny Singer Research Institute Intramural Pilot Project Grant Program. “Gene Therapy for Brain Tumor: Intra-arterial Viral Vector.” (March 1996)

### **Reviewer**

Journal of Neuro-Oncology (Editorial Board)  
Neurosurgery  
Biomaterials  
International Journal of Craniomaxillofacial Trauma (Editorial Board)

### **Member**

1998-present National Comprehensive Cancer Network  
Clinical Practice Guidelines for Primary Brain Tumors

2007-present American Academy of Neurological Surgery

### **Certification**

Medical licensure  
The Board of Physician Quality Assurance of the State of Maryland  
State Certification to Practice Medicine and Surgery  
Awarded May 15, 1989--Certification #: D0038382

ECFMG certification  
July 1982  
FLEX Examination  
December 1982

### **Special certification**

Certificate: Principles and Practice of Gamma Knife Radiosurgery (attendance/certification —2/10-2/14/03—Barrow Neurological Institute, Phoenix, AZ

American Board of Neurological Surgeons May, 1994

### **Service Responsibilities**

Director of the Neurosurgical clinical services at the Bayview Medical Center:

General neurosurgical practice consisting of: 256 surgical cases per year  
1200 clinic visits per year  
100 inpatient consultations per year  
Attending on the Neurosurgical service every other week  
Number of surgical cases personally performed at Bayview in 2008: approx. 190  
40% Spine surgery; 30% intracranial tumors; 20% vascular surgery; 10% trauma surgery

Director of the Division of Neurosurgical Oncology at the Johns Hopkins Hospital  
Multidisciplinary treatment of brain and spinal tumors

Member of the Division of Neurovascular Surgery at the Johns Hopkins Hospital  
Treatment of aneurysm, vascular malformation and vascular occlusive disease

Number of surgical cases performed at the Johns Hopkins Hospital in 2008: approx 200  
60% tumors (intracranial, skull base, spinal, stereotactic biopsies), 25% spinal; 15% vascular.

Rotating attending on call for the HAL (Hopkins access line) five weeks per year.

### **Organizational Activities**

#### **Institutional Administrative Appointments:**

Chief Resident, Department of Neurosurgery, University Of Cincinnati

1992-1994 Associate Chief for Clinical Practice  
Department of Neurosurgery  
The Johns Hopkins Bayview Medical Center

1994-present Chairman, Department of Neurosurgery  
The Johns Hopkins Bayview Medical Center  
Baltimore, Maryland

1994-present Medical Director  
Neuroscience Intensive Care Unit  
The Johns Hopkins Bayview Medical Center  
Baltimore, Maryland (December 1994-present)

2000-present Director of the Division of Neurosurgical Oncology  
Department of Neurosurgery  
The Johns Hopkins Hospital

Member of The Harrison Library Committee  
The Johns Hopkins Bayview Medical Center

Member of the Search Committee for the General Surgery Chairman  
The Johns Hopkins Bayview Medical Center

1994-present Member of the Medical Board  
The Johns Hopkins Bayview Medical Center

Member of the Advisory Board  
Johns Hopkins Bayview Physicians

1997-2001 Member of the Medical Council  
The Johns Hopkins School of Medicine

2003-present      Member of the Search Committee  
                                 Johns Hopkins Hospital, School of Medicine

**Professional Societies:**

Congress of Neurological Surgeons  
American Medical Association  
American Association of Neurological Surgeons  
Society for Neuro-Oncology

**Recognition, Awards, Honors:**

Clinician Scientist Award  
The Johns Hopkins University  
July 1992

Richard Otenasek, Jr. Faculty Teaching Award  
Excellence in Teaching and Commitment to Resident Education  
The Johns Hopkins University  
June 1996

**Reviewer**

Reviewer for RFA grants

**Study Section Review**

Consultant: Study Section Review NIH RFA and CA grant—Brain Tumors--NIH, Bethesda, MD,  
March 9<sup>th</sup>, 2005.

**Grant Support: (ongoing)**

**NCI 1R21 CA112148-01 (Dr. Olivi)**

“Enhancement of Brain Tumor Immunotherapy by Fas-L RNAi” 05/01/05-4/30/10  
Total cost: \$1,147,000. (Principal Investigator)

**Invited Talks, Panels**

“Cerebrospinal fluid levels of cyclic nucleotides and monoaminergic metabolites in subarachnoid hemorrhage: Preliminary report.” 31st Annual Meeting of Scandinavian Neuroscience Society. Oulu, Finland, June 1979.

“Longitudinal investigations on CSF levels of cyclic nucleotides and adrenergic metabolites in non-neoplastic hydrocephalus.” Neurosurgical Joint Meeting. Essen, West Germany, September 1979.

Invited lecture: “Photo radiation therapy of brain tumors: Promises and limitations.” Brain Tumor Workshop. Verona, Italy, June 1985.

“Stereotactic photodynamic therapy of C6 gliomas in rats: Morphological observations and clinical implications.” American Association of Neurological Surgeons. Denver, Colorado, April 1986.

“Slit ventricle syndrome: Review of 15 cases.” International Society for Pediatric Neurosurgery. 15th Annual Meeting. New York, New York, July 1987.

“Positioning for Success.” Congress of Neurological Surgeons. Baltimore, Maryland, October 1987.

“Hematoporphyrin derivatives and Photodynamic therapy- Vertebral artery injuries.” Steamboat Neurosurgical Symposium. Steamboat Springs, Colorado, February 1988.

“Malignant tumors of the choroid plexus in children.” 16th Annual Meeting of the International Society for Pediatric Neurosurgery, Rome, Italy, February 1988.

“Use of polymers to locally release carboplatin and inhibit the growth of Walker 256 carcinosarcoma.” Pediatric Section of the American Association of Neurological Surgeons. Washington, DC, December 1989

“Growth inhibition of the Walker 256 carcinosarcoma by local sustained release of carboplatin from biocompatible polymers.” American Association of Neurological Surgeons. Nashville, TN., April 1990.

“Treatment of F98 rat glioma with local controlled-release of carboplatin from a biodegradable polymer.” International Symposium on Advances in Neuro-Oncology, San Remo, Italy, September 1990.

Invited lecture: “Interstitial Chemotherapy with a biodegradable controlled-release polymer for treatment of malignant gliomas.” Fifth Meeting of the German Neuro-oncological Group, Cologne, Germany, November 1990.

“Stereotactic guided craniotomies.” The Johns Hopkins General Surgery Grand Rounds, Baltimore, MD., March 1992.

Invited lecture: “Local BCNU wafer therapy of recurrent gliomas.” Molecular Neuro-Oncology and its Impact on the Clinical Management of Brain Tumors, Bonn, Germany, May 1992.

International Neuro-Oncology Symposium, Bonn, Germany, June 1992

Invited lecture: “Slow release polymers for drug delivery to brain tumors.” American Society for Clinical Pharmacology and Therapeutics, Honolulu, Hawaii, March 1993.

“Treatment of Intraventricular Rupture of Cerebral Abscesses.” The Johns Hopkins General Surgery Grand Rounds, Baltimore, MD, May 1993.

Invited lecture: “New strategies in the treatment of malignant gliomas”. Joint Meeting of the Departments of Neurosurgery, Neurology, Medical Oncology and Radiation Oncology. University of Padova, Italy, September 1993.

“Meningiomas in the Elderly.” Francis Scott Key Medical Center Medicine Grand Rounds, Baltimore, MD., December 1993.

American Association of Neurological Surgeons, San Diego, CA., April 1994.

“Experimental Approaches for Treatment of Malignant Brain Tumors: Application of Laboratory Studies to Clinical Problems.” Mayfield Winter Neurosurgical Symposium, Snowmass, Colorado, February 1995.

“The Diagnosis and Management of Intracranial Lesions Using Stereotactic Techniques.” Internal Medicine Clinical Review. Suburban Hospital, Bethesda, MD, May 1995.

“Interstitial Chemotherapy with Biodegradable Polymers for the Treatment of Brain Tumors.” XV Corso Avanzato in Chimica Farmaceutica, Urbino, Italy, July 1995.

Invited lecture: “Development of a Controlled Polymeric Drug Delivery System for the Brain.” IBC UK Conferences Limited. Neurotrophic Factors: Clinical Application And Future Directions, London, May 1996

Invited lecture: “Image-Guided Surgery -The Johns Hopkins Experience.” 40th Annual Clinical Conference, MD Anderson Cancer Center, Houston, Texas, March 1997.

Invited lecture: “The Impact of Neurosurgical Research on Clinical Practice” Mayfield Neuroscience Symposium, University of Cincinnati Medical Center, May 31, 1997.

Invited lecture: “Intratumoral Chemotherapy” Societe Suisse de Neurologie, Aarau, Switzerland, November 7, 1997.

“Central Nervous System.” American Society of Clinical Oncology- 34th Annual Meeting, Los Angeles, California, May 1998.

“Management of Gliomas- Surgery/Chemotherapy.” First International Congress on Genetics in Neurosciences, Terni , Italy, June 1998.

“Gliadel in Recurrent Malignant Gliomas” Emerging Strategies for Cancer Therapy in the New Millennium, Department of Radiation Oncology, the New York Methodist Hospital –affiliated with the New York Hospital-Cornell Medical Center, Brooklyn, New York, September 10, 1998.

“The Gliadel Dose Escalating Study: An Update” Mayfield-Clinic-Neuroscience Symposium, Snowmass, Colorado, February 25, 1999

“Local Tumor Control with the Biodegradable Polymers” 50th Annual Meeting German Society of Neurosurgery, Munich, Germany, June 9, 1999

“Increasing Clinical Doses of Interstitial Chemotherapy” Mayfield Clinic-Cleveland Clinic Neuroscience Symposium, Snowmass, Colorado, February 22, 2000.

“Local Delivery of Mitoxantrone by Biodegradable Polymers for the Treatment of Experimental Brain Tumors. Quadrennial Meeting of the World Federation of Neuro-Oncology, Hilton Washington and Towers, Washington, D.C. November 16, 2001.

3rd International Congress Genetics and Regeneration in Neuroscience and 1st Satellite Symposium “New Frontiers in Surgical Neurology”, Terni, Italy, June 22-26, 2002.  
Congress of Neurological Surgeons Meeting, Philadelphia, PA September 23-24, 2002

NABTT Consortium Meeting, Greensboro, N.C., November 7-8, 2002

Invited Speaker Department of Neurology—Azienda Ospedaliera de Padova, “Il percorso dal laboratorio all’uso nella pratica clinica di un nuovo trattamento dei tumori cerebrali maligni,” Padova, Italy, April 14, 2003.

Invited speaker: Neurosurgical Grand Rounds, Azienda Ospedaliera Di Padova, Padova, Italy, “New Strategies and Intraoperative Technologies in the Treatment of Intracranial Tumors,” April 14, 2003.

Invited to Chair the Joint Meeting Satellite Symposium on behalf of Guilford Pharmaceuticals and Link Pharmaceuticals “New Advances in the Management of Malignant Glioma—Future Directions,” held in Edinburgh, Scotland, May 5<sup>th</sup>, 2005.

Invited to Co-chair the first Scientific Committee at the International Meeting: Updates in Neuro-Oncology in Arezzo, Italy, June 25-26, 2005.

Invited speaker: “Brain Tumors: stereotactic approaches and local treatments.” Brain LAB Residents Academy, 2006, Brain LAB AG, Munich, Germany April 2-7, 2006.

Presenter: 16<sup>th</sup> Biennial International Brain Tumor Research Center and the Pediatric Brain Tumor Foundation, abs. "Enhancement of Brain tumor Immunotherapy by Inhibiting Fas ligand." Napa Valley, California, April 26-30, 2006.

New Approaches to Brain Tumor Therapy, Spring Meeting, Admiral Fell Inn, Baltimore, MD. June 15-16, 2006.

Invited speaker—MGI Pharma Regional Gliadel ® Advisory Panel—"Trends in the Treatment of High Grade Glioma"—Mandarin Oriental Hotel, Washington, D.C., August 11-12, 2006.

Co-chair, 4<sup>th</sup> Annual International Neuro-Oncology Update, Memphis, Tennessee, August 24-25, 2006.

Co-presenter: Seventh Principal Investigators Meeting for the Innovative Molecular Analysis Technologies (IMAT) Program—"Novel Therapy for Glioma Using Combination FasL RNA Interference and Cytokine Delivery" w/Timothy Jansen, John Laterra, Alessandro Olivi--Bethesda Marriott (Pooks Hill), Bethesda, Maryland, September 7-8, 2006.

Invited visit to affiliate institution—Anadolu Hospital and Health Center--Istanbul, Turkey—September 13-17, 2006.

Invited—NCCN Central Nervous System Cancers Panel Meeting—Chicago O'Hare Hilton, Chicago, Illinois, November 3, 2006.

Invited speaker—Visiting Professor at the University of Calgary, Department of Clinical Neurosciences, Foothills Medical Centre, Friday, February 23, 2007: Neurosurgery Rounds: "Brainstem Tumor and Stereotactic Biopsy," and Department of Neurosciences Grand Rounds, "Immuno-biology of Brain Tumors."

Scientific Committee: Olivi, A. 2nd International Meeting, Updates in Neuro-Oncology, Cortina, Italy, June 28-30, 2007

Invited Speaker--3rd Workshop di Neurochirurgia in Diretta--The transcavernous approach to complex basilar aneurysms and Approaches in and through the cavernous sinus. University of Padova, Padova, Italy, April 9-10, 2008.

Co-chair: 7th Annual International Neuro-Oncology Update, Baltimore, Maryland, September 18-19, 2008.

Invited Speaker/ Moderator: Congress of Neurological Surgeons 2008 Annual Meeting, "International Tumor Symposium: The Community of Neurosurgery in Latin America." (9/23/08) Orlando, Florida--September 20-25, 2008

20th Congreso Mexicano De Cirugia Neurologica, Cancun, Mexico, July 18-24, 2009.

### **Abstracts**

- a1. Gerosa MA, Olivi A, Longatti PL, Carteri A: "Longitudinal investigation of CSF levels of cyclic nucleotides and adrenergic metabolites in non-neoplastic hydrocephalus." *Acta neurochirurgica* 48:298, 1979.
- a2. Olivi A, Berger TS, Lampkin B, Crone KR: "Malignant tumors of the choroid plexus in children." *Child's Nervous System* 4:185-186, 1988.
- a3. Olivi A, Duncan KKL, Corden BJ, Pinn ML, and Brem H; "Comparison of the CNS toxicity of cisplatin, iproplatin and carboplatin given by intrathecal administration in a rat model." *Proceedings of the American Association for Cancer Research*, 30:466, 1989.

- a4. Olivi A, Pinn ML, Ewend MG, Chan DW, Brem H: "Use of polymers to locally release carboplatin and inhibit the growth of Walker 256 carcinosarcoma." Pediatric Section of the American Association of Neurological Surgeons. December 1989.
- a5. Olivi A, Ewend MG, Pinn ML, Chan DW, Brem H: "Growth inhibition of the Walker 256 carcinosarcoma by local sustained release of carboplatin from biocompatible polymers." American Association of Neurological Surgeons, April 1990.
- a6. Olivi A, Lenartz D, Domb A, Dureza C, Pinn ML, Brem H: "Treatment of F98 rat glioma with local controlled-release of carboplatin from a biodegradable polymer." Advances in Neuro-Oncology, Sanremo, Italy, September 1990.
- a7. Brem H, Olivi A, Mahaley SM, Vick NA, Black K, Schold SC, Burger PC, Friedman AH, Ciric IS, Eller TW, Cozzens JW, Kenealy JN: "Interstitial chemotherapy with drug polymer implants for the treatment of recurrent gliomas." Advances in Neuro-Oncology, Sanremo, Italy, September 1990.
- a8. Tamargo RJ, Olivi A, Bok, RJ, Brem H: "Angiogenesis inhibition by Minocycline." American Association of Neurological Surgeons, New Orleans, LA, April, 1991, p. 525.
- a9. Olivi A, Domb A, Lenartz D, Dureza C, Goodman JH, Pinn M, Brem H: "Treatment of F-98 rat glioma with local controlled-release of carboplatin from a biodegradable polymer." American Association of Neurological Surgeons, New Orleans, LA, April, 1991, p. 526.
- a10. Dureza C, Olivi A, Domb A, Epstein JI, Lenartz D, Pinn ML, Brem H: "Brain compatibility of a new biodegradable polymer capable of sustained release of water-soluble agents." American Association of Neurological Surgeons, New Orleans, LA, April 1991, p. 525.
- a11. Judy KD, Olivi A, Domb A, Colvin OM, Brem H. "Controlled release of a cyclophosphamide derivative with polymers is effective against rat gliomas." Congress of Neurological Surgeons, Orlando, Florida, Oct. 1991.
- a12. Domb A, Olivi A, Judy K, Brem H. "Anticancer implant for the treatment of brain tumors." ICRF Scientific Conference on Advanced Concepts in Cancer Research, Maleh Hachamishan, Israel, p. 103, 1991.
- a13. Weingart J, Olivi A, Brem H. "Tumor growth inhibition by minocycline." American Association of Neurological Surgeons, San Francisco, CA, April, 1992.
- a14. Brem H, Olivi A, Greenhoot JH, Sisti, M. "Interstitial chemotherapy with BCNU-loaded polymers for the treatment of newly diagnosed malignant astrocytomas: A clinical study." American Association of Neurological Surgeons, San Francisco, CA, April, 1992.
- a15. Olivi A, Park HC, Epstein JI, Domb AJ, Brem H. "Biocompatible polymers as means to reduce the postoperative epidural scar in a rat model." American Association of Neurological Surgeons, San Francisco, CA, April, 1992.
- a16. Olivi A, Sawhney A, Pathak CP, Hubbell JA, Pinn ML, Epstein JI. "Photopolymerized hydrogel barriers reduce post laminectomy scar formation in rats." American Association of Neurological Surgeons, San Diego, CA April 9-14, 1994.
- a17. Utsuki T, Olivi A, Pitha J, Loftsson T, Brem H. "Efficacy of carboplatin-hydroxypropyl-cyclodextrin complexes against a rat glioma model when locally released from ethycellulose

- microcapsules.” American Association of Neurological Surgeons San Diego, CA April 9-14, 1994.
- a18. Loftsson T, Pitha J, Kristinvaldsdottir T, Utsuki T, Olivi A, Brem H. Microencapsulation of Cyclodextrin Complexes - VII International Symposium on Cyclodextrins - Tokyo, Japan April 1994.
- a19. Utsuki T, Olivi A, Pitha J, Loftsson T, Kristmundsdottir T, Brem H. “Efficacy of carboplatin-hydroxypropyl- $\alpha$ -cyclodextrin complexes against a rat glioma model when locally released from ethylcellulose microcapsules.” American Association of Neurological Surgeons, San Diego, California, April 9-14, 1994.
- a20. Storm PB, Sills AK, Olivi A, Lyman M, Sawhney A. “Effects of a photopolymerized hydrogel on the reduction of postlaminectomy scar formation in rats.” The American Association of Neurological Surgeons, Minneapolis, MN, April 27-May 2, 1996. (oral presentation)
- a21. Gibbons MC, Burger PC, Rosenberg J, Brem H, Jedlicka AE, DiSilvestre D, Lewis T, Kiser MB, Olivi A, Tamargo R, Carson B, Vogelstein B, Levitt RC. “Glioblastomas (GBMs) associated with germ-line mutations in hMLH1.” American Association of Neuropathologists, Vancouver, BC, June 12-16, 1996.
- a22. Davis JD, Bohan E, Olivi A, Long DM, Weingart JD, Sampath P, Brem H. “Clinical experience with GliadelR.” Society of Neuro-Oncology, Santa Fe, NM, Nov. 8-10, 1996.
- a23. Brem H, Olivi A, Sampath P, Williams J, Weingart J. Polymers to treat brain tumors: The Johns Hopkins Experience. Polymers to treat brain tumors: The Johns Hopkins Experience.” The Society for Neuro-Oncology, Charlottesville, VA, October 31-November 2, 1997.
- a24. Olivi A, Bruce J, Saris S, Engelhard H, Judy K, Kelly D, Burak E, DalPan G, Grossman S, Fisher J, Piantadosi S. “Phase I study of escalating doses of interstitial BCNU administered via wafer in patients with recurrent malignant glioma (MG).” American Society of Clinical Oncology, Los Angeles, CA, May 16-19, 1998.
- a25. Di Meco F, Olivi A, Hanes J, Tyler B, Brat D, Torchiana E, Finocchiaro G, Brem H. “Treatment of established 9L gliosarcoma in rats using syngeneic cells engineered to secrete IL-12.” Congress of Neurological Surgeons, Seattle, WA, Oct 3-8, 1998.
- a26. Di Meco F, Hanes J, Tyler B, Rhines L, Brat D, Torchiana E, Finocchiaro G, Brem H, Olivi A. “Paracrine delivery of IL-12 is effective in the treatment of intracranial 9L gliosarcoma in rats.” The Society for Neuro-Oncology, San Francisco, CA, November 12-15, 1998.
- a27. Olivi, A, Bruce, J, Saris, S, Engelhard, H, Judy, K, Kelly, D, Burak, E, Dal Pan, G, Grossman, S, Fisher, J, Piantadosi, S. Phase I Study of Escalating Doses of Interstitial BCNU Administered via Wafer in Patients with Recurrent Malignant Glioma (MG). For the NABTT CNS Consortium and Guilford Pharmaceuticals, Inc. Soc Neuro-Oncology, 1998.
- a28. Perry VL, DiMeco F, Rhines LD, Tyler BM, Finocchiaro G, Brem H, Olivi A. “Adriamycin impregnated polymers combined with interleukin -12 for local treatment of intracranial neoplasms.” American Association of Neurological Surgeons, New Orleans, LA, April 24-29, 1999.
- a29. Di Meco F, Rhines LD, Hanes J, Perry VL, Tyler BM, Finocchiaro G, Brem H, Olivi A. “Effect of locally delivered interleukin-12 against intracranial 9L gliosarcoma.” American Association of Neurological Surgeons, New Orleans, LA, April 24-29, 1999.

- a30. DiMeco F, Rhines LD, Hanes J, Lawson HC, Tyler BM, Aggarwal A, Perry VL, Brem H, Olivi A. “Local delivery of IL-12 by microspheres (IL-12MS) against experimental brain tumors.” Congress of Neurological Surgeons, Boston, MA., October 30 - November 4, 1999.
- a31. DiMeco F, Brem H, Lawson HC, Bohan E, Sampath P, Weingart J, Olivi A. “Interstitial chemotherapy for malignant gliomas: The Johns Hopkins Experience.” The Associazione Italiana di Neuro-Oncologia, VI Congresso, Milan, Italy, November 17-19, 1999.
- a32. DiMeco F, Rhines LD, Hanes J, Lawson HC, Tyler BM, Aggarwal A, Perry VL, Brem H, Olivi A. “Local IL-12 delivered by biodegradable microspheres (IL-12MS) for the treatment of experimental brain tumors.” The Society of Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
- a33. Olivi A, Barker F, Tatter S, Bruce J, Judy K, Engelhard H, Burak E, Hilt D, Grossman S, Fisher JD, Piantadosi S. “Results of a Phase I study of interstitial BCNU administered via wafers to patients with recurrent malignant glioma”. The Society of Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
- a34. Olivi, A, Barker, F, Tatter, S, Bruce, J, Judy, K, Engelhard, H, Burak, E, Hilt, D, Grossman, S, Fisher, JD, Piantadosi, S. For the NABTT CNS Consortium and Guilford Pharmaceuticals, Inc. Toxicity and Pharmacokinetics of Interstitial BCNU Administered Via Wafers: Results of a Phase I Study in Patients with Recurrent Malignant Glioma. Proc. Am Soc Clin Oncol. 18:142a, 1999.
- a35. Olivi, A, Barker, F, Tatter, S, Bruce, J, Judy, K, Engelhard, H, Burak, E, Hilt, D, Grossman, S, Fisher, JD, Piantadosi, S. For the NABTT CNS Consortium and Guilford Pharmaceuticals, Inc. Results of a Phase I Study of Interstitial BCNU Administered Via Wafers to Patients with Recurrent Malignant Glioma. Soc Neuro-Oncology, 1999.
- a36. Tatter, SB, Shaw, EG, deGuzman, A, Rosenblum, ML, Mikkelson, T, Olivi, A, Grossman, S. For the NABTT CNS Consortium. Clinical Results of Brachytherapy in Resected Malignant Glioma Cavities using the GliaSite RadioTherapy system. AANS, 2000.
- a37. Olivi, A, Barker, F, Tatter, S, Bruce, J, Judy, K, Burak, E, Hilt, D, Grossman, SA, Fisher, J, Piantadosi, S. Results of a phase I study of interstitial BCNU administered via wafers to patients with recurrent malignant glioma. Proc Am Soc Clin Oncol 19:160a, 2000.
- a38. deGuzman, A, Shaw, EG, Tatter, SB, Rosenblum, ML, Mikkelson, T, Olivi, A, Grossman, S. For the NABTT CNS Consortium. A Phase I Study of the Safety and Performance of the GliaSite Radiotherapy System for Brachytherapy Treatment of Re-Resected Malignant Glioma Cavities. American Brachytherapy Society Mtg, 2000.
- a39. deGuzman, AF, Shaw, EG, Tatter, SB, Rosenblum, ML, Mikkelsen, T, Olivi, A, Grossman, SA. Brachytherapy of Re-Resected Malignant Glioma Cavity Margins Using an Inflatable Balloon Catheter and a Liquid I-125 Source: A Phase I Study. Journal of Nuclear Medicine 41:274P, 2000.
- a40. deGuzman, A, Tatter, S, Shaw, E, Rosenblum, M, Mikkelsen, T, Olivi, A, Grossman, S. Brachytherapy of Re-Resected Malignant Glioma Cavity Margins Utilizing a Novel Delivery System – The GliaSite Radiotherapy System. Presented at the 2000 American Association of Physicists in Medicine Annual Meeting.
- a41. deGuzman, A, Shaw, EG, Tatter, SB, Rosenblum, ML, Mikkelsen, T, Olivi, A, Grossman, S: A Phase I Study of the Safety and Performance of the GliaSite Radiotherapy System for

- Brachytherapy Treatment of Re-Resected Malignant Glioma Cavities. Radiotherapy and Oncology 55(S1): 57-58, 2000.
- a42. Tatter, SB, Shaw, EG, deGuzman, A, Lesser, GJ, Mikkelson, T, Rosenblum, ML, Karvelis, KC, Olivi, A, Kleinberg, L, Grossman, S, New, P, Herman, T, Vollmer, DA, Olson, JJ, Crocker, I, Brem, S, Pearlman, J. Clinical results from brachytherapy of recurrent malignant gliomas using an inflatable balloon catheter and liquid 125I Radiation Source: A Phase I device performance and safety study. New Approaches to Brain Tumor Therapy (NABTT) CNS Consortium. ASCO on-line 2000.
- a43. Olson, J, deGuzman, AF, Karvelis, KC, Shaw, EG, Tatter, SB, Rosenblum, ML, Mikkelsen, T, Olivi, A, Crocker, I, Grossman, S. A Phase I Study of Brachytherapy of Recurrent Malignant Using an Inflatable Balloon Catheter and Liquid I-125 Source. Georgia Neurosurgical Society, May 27, 2000.
- a44. Tatter, SB, Shaw, EG, deGuzman, A, Rosenblum, ML, Mikkelson, T, Olivi, A, Grossman, S. Clinical results of brachytherapy in resected malignant glioma cavities using the GliaSite Radiotherapy System. AANS 2000 Annual Meeting Poster Program Book, San Francisco, CA.
- a45. Tatter, SB, Shaw, EG, deGuzman, A, Rosenblum, ML, Mikkelsen, T, Olivi, A, Grossman, S, Miller, C. Brachytherapy in Re-Resected Malignant Glioma Cavities Using the GliaSite Radiotherapy System. AANS/CNS Section on Tumors:Fourth Biennial Satellite Symposium, San Francisco, 2000.
- a46. Weingart, J, Kleinberg, L, Brem, H, Olivi, A, Grossman, SA. Necrosis following Gliadel and cranial radiation for newly diagnosed glioblastoma multiforme (GBM). American Society of Clinical Oncology, New Orleans, LA, May 20-23, 2000.
- a47. Weingart, J, Kleinberg, L, Brem, H, Burger, P, Olivi, A, Grossman, SA. Necrosis/treatment effect as pathologic finding following Gliadel and cranial radiation for newly diagnosed glioblastoma multiforme (GBM). American Society of Clinical Oncology, New Orleans, LA. May 20-23, 2000.
- a48. DiMeco, F, Rhines, L, Hanes, J, Li, KW, Lawson, HC, Tyler, BM, Aggarwal, A, Perry, VL, Brem, H, Olivi, A. Local delivery of interleukin-12 by biodegradable microspheres (IL-12MS) for the treatment of experimental brain tumors. Congress of the European Association of Neuro-Oncology, Copenhagen, Denmark, June 3-6, 2000.
- a49. Tatter, SB, Shaw, EG, Rosenblum, ML, Mikkelson, T, Weingart, J, Olivi, A, Olson, JJ, Crocker, I, Brem, S, Vollmer, DA. Brachytherapy of Recurrent Malignant Gliomas Using a New Inflatable Balloon Catheter:Results of the Multi-Center Trial. New Approaches to Brain Tumor Therapy (NABTT) CNS Consortium. AANS, 2001.
- a50. DiMeco F, Cohen SE, LiKW, Tyler BM, Denaro L, Brem H, Olivi A. Mitoxantrone: Potential for polymer based interstitial treatment of malignant gliomas. Congress of neurological Surgeons, San Antonio, TX. September 23-28, 2000.
- a51. DiMeco F, Li KW, Tyler B, Hanes J, Brem H, Olivi A. Interleukin D12 delivery by biodegradable microspheres (IL-12 MS) for the treatment of metastatic brain tumors. The American ASsocation of Neurological Surgeons, Toronto, Canada, April 21-26, 2001.
- a52. DiMeco F, Li KW, Tyler BM, Wolf A, Denaro L, Brem H, Olivi A. Toxicity and efficacy of interstitially delivered mitoxantrone for the treatment of malignant brain tumors. The American Association of neurological Surgeons, Toronto, Canada. April 21-26, 2001.

- a.53. Tyler BM, Dimeco F, Li KW, Wolf A, Cohen SE, Denaro L, Brem H, Olivi A. Mitoxantrone: A new agent for the treatment of experimental brain tumors: In vitro assessment. The American Association of Neurological Surgeons, Toronto, Canada. April 21-26, 2001.
- a.54. Tihan, T, DiMeco, F, Li, KW, Pollo, B, Olivi, A, Solero, CL, and Burger, PC. Intramedullary Subependymomas of the Spinal Cord. J Neuropathology and Experi Neurosurg, Meeting American Association of NeuroPathologists, Chicago, Ill, June, 2001.
- a.55. DiMeco F, Li KW, Tyler BM, Wolf A, Brem H, Olivi A. Locally delivered mitoxantrone by biodegradable polymers for the treatment of malignant gliomas. Congress of neurological Surgeons, San Diego, CA. September 29-October 4, 2001.
- a.56. DiMeco,F, Li KW, Tyler B, Wolf AS, Rizzo P, Brem H, Olivi A. Local delivery of mitoxantrone by biodegradable polymers for the treatment of experimental brain tumors. World Federation of Neuro-Oncology Societies/Society for Neuro-Oncology, Washington, DC, Nov. 15-18, 2001.
- a.57. Margalit E, Weiland JD, Clatterbuck R, Olivi A, D'Anna SA, Maia M, Fujii GY, Torres G, Piyathaisere DV, de Juan E, Humayun MS. Light and electrically evoked response (VER, EER) recorded from sub-dural epileptic electrodes implanted above the visual cortex in normal dogs. Investigative Ophthalmology and Visual Science 42: 3467 Suppl., S. March 2002.
- a.58. Tihan T, McGhee D, Eberhart C, Olivi A, Burger PC. Intracranial tumors with inflammatory and myofibroblastic components: Inflammatory pseudotumor or inflammatory fibrosarcoma? Journal of Neuropathology and Experimental Neurology 61: 201, May 2002.
- a.59. Pradilla G, Wang PP, Petrangolini G, Case D, Tyler BM, Francescato P, Chillemi F, Brem H, Olivi A, DiMeco F. Angiogenesis inhibition properties of a novel endostatin analog: in vivo and in vitro characteristics using controlled-release polymers. American Association of Neurological Surgeons Meeting, San Diego, CA, April 26-May 1, 2003.
- a.60. Pradilla G, Petrangolini G, Legnani FG, Tyler BM, Francescato P, Chillemi F, Brem H, Olivi A, DiMeco F. Inhibition of an angiogenesis in vitro by local delivery of a novel endostatin fragment. American Association of Cancer Research, Toronto, Canada, April 5, 2003.
- a.61. Goodwin C, Pradilla G, Vargas DL, Raza SM, Legnani FG, Tyler BM, Brem H, Olivi A. Fas-ligand mediates cytotoxicity of peri-tumoral T-lymphocytes in the 9L gliosarcoma model. American Association of Neurological Surgeons, Orlando FL. May 1-6, 2004.
- a.62. Hsu W, Pradilla G, Goodwin C, Legnani FG, Tyler BM, Vick J, Olivi A, Brem H. Local delivery of lactacystin via controlled-release polymers prolongs survival in a 9L gliosarcoma model. American Association of Neurological Surgeons, Orlando, FL. May 1-6, 2004.
- a.63. Legnani FG, Pradilla G, Raza S, Tyler BM, Zamora G, DiMeco F, Brem H, Olivi A. Verapamil administration decreases resistance to mitoxantrone therapy in malignant gliomas and pro-metastatic tumor cell lines in vitro. American Association of Neurological Surgeons, Orlando, FL. May 1-6, 2004.
- a.64. Pradilla G, Legnani F, Hsu W, Tyler B, Giani SM, DiMeco F, Olivi A, Brem H. The proteasome inhibitor lactacystin prolongs survival in animals intracranially challenged with 9L gliosarcoma when delivered locally via controlled release polymers. Congress of Neurological Surgeons, San Francisco, CA. October 16-21, 2004.
- a.65. Pradilla G, Legnani F, Tyler B, Giani S, Francescato P, Chillemi F, Brem H, Olivi A, DiMeco F. Combined treatment of systemic BCNU and a locally delivered anti-angiogenic fragment of human endostatin prolongs survival in rats challenged intracranially with 9L gliosarcoma. Congress of Neurological Surgeons, San Francisco, CA. October 16-21, 2004.

- a.66. Zamora-Berridi GJ, Legnani FG, Pradilla G, Hertig S, Tyler BM, Brem H, Olivi A. Cytotoxicity and in vivo safety of carboplatin and minocycline for the treatment of malignant gliomas. AANS/CNS Section on Pediatric neurological Surgery Annual Meeting, San Francisco, CA. December 8-11, 2004.
- a.67. Olivi A, Legnani FG, Pradilla G, Tyler BM, Chillemi F, DiMeco F. Local delivery of a fragment of human endostatin combined with systemic administration of BCNU prolongs survival in a rodent experimental glioma model. Joint Meeting of the American Academy of Neurological Surgery, the German Academy of Neurosurgery and the German Society of Neurosurgery, Dresden, Germany. October 5-8, 2004.
- a.68. Hertig S, Legnani FG, Pradilla G, Zamora G, Thai QA, Tyler BM, Gaini SM, DiMeco F, Brem H, Olivi A. Epirubicin has potent anti-glioma activity and shows sustained-release when incorporated into a biodegradable controlled-release polymer in vitro. Annual Meeting of the AANS, New Orleans, LA. April 17-21, 2005.
- a.69. Legnani FG, Pradilla G, Thai QA, Vargas DL, Tyler BM, Zamora G, Gaini SM, DiMeco F, Brem H, Olivi A. Local delivery of verapamil decreases Multi-Drug Resistance in a novel mitoxantrone resistant tumor model in rats. Annual Meeting of the AANS, New Orleans, LA. April 17-21, 2005.
- a.70. Legnani FG, Pradilla G, Goodwin C, Vargas DL, Xia S, Tyler BM, Gaini SM, DiMeco F, Brem H, Olivi A. Direct activation of the wild-type Fas Receptor fails to induce apoptosis in experimental gliomas in vitro. Annual meeting of the AANS, New Orleans, LA. April 17-21, 2005.
- a.71. Fiorindi A, Legnani FG, Tyler BM, Pradilla G, Perin A, Longatti P, Brem H, Olivi A. Oral administration of GPI 15427 in association with BCNU polymer in the treatment of intracranial 9L rat gliosarcoma. Submitted to the 2005 annual meeting of the AANS.
- a.72. Fiorindi A, Brem S, Legnani F, Tyler B, Pradilla G, Perin A, Longatti P, Brem H, Olivi A. Oral GPI administration of GPI 15427 in association with BCNU polymer in the treatment of intracranial 9L rat gliosarcoma. Annual Meeting of the AANS, New Orleans, LA. April 17-21, 2005.
- a.73. Federico G, Legnani F, Hertig S, Vick J, Pradilla G, Tyler BM, Li KW, DiMeco F, Brem H, Olivi A. Epirubicin inhibits growth in malignant glioma and CNS pro-metastatic tumor cell lines both in vitro and in vivo. 5<sup>th</sup> Annual International Neuro-Oncology Update, Memphis, TN. August 24-25, 2006.
- a.74. Federico G, Legnani F, Pradilla G, Thai QA, Tyler BM, DiMeco F, Brem H, Olivi A. Apoptosis in experimental glioma cells and could be responsible for the apoptosis of T-cell surrounding malignant gliomas in vivo. 5<sup>th</sup> Annual International Neuro-Oncology Update, Memphis, TN. August 24-25, 2006.
- a.75. Vick D, Hertig S, Tyler BM, Li KW, Renard V, Kosztowski T, Legnani FG, Brem H, Olivi A. local Delivery of Epirubicin for the Treatment of an Experimental Rodent Glioma. AANS/CNS Section on Tumors Seventh Biennial Satellite Symposium, Washington, DC. April 13-14, 2007.