

**DUKE UNIVERSITY MEDICAL CENTER**

**CURRICULUM VITAE**

**Henry S. Friedman, M.D.**

**PRIMARY ACADEMIC APPOINTMENT:** Surgery

**SECONDARY ACADEMIC APPOINTMENTS:** Pediatrics, Pathology, Medicine

**PRESENT ACADEMIC RANK AND TITLE:** James B. Powell, Jr. Professor of

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Professor of Pediatrics

Associate Professor of Medicine

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**DATE AND RANK OF FIRST DUKE** July 1, 1983

**FACULTY APPOINTMENT:** Assistant Professor of Pediatrics

**MEDICAL LICENSURE:** New York, 1977

North Carolina, 1980

**SPECIALTY CERTIFICATION AND DATES:**

American Board of Pediatrics: May, 1982

Sub-Board of Hematology/Oncology: October, 1982

**EDUCATION:**

High School Stuyvesant High School 1969 Diploma

College University of Rochester 1973 B. A.

Rochester, NY

Graduate Upstate Medical Center 1977 M. D.

Syracuse, NY

**PROFESSIONAL TRAINING AND ACADEMIC CAREER:**

Upstate Medical Center 1977-1978 Internship Syracuse, NY Pediatrics

Upstate Medical Center 1978-1979 Residency Syracuse, NY Pediatrics

Upstate Medical Center 1979-1981 Research Fellow Syracuse, NY Pediatric Hematology-Oncology

Duke University Medical Center 1981-1983 Senior Research Fellow Durham, NC Pediatric Hematology Oncology

Duke University Medical Center 1983-1986 Assistant Professor Durham, NC Pediatrics

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Duke University Medical Center 1986-1990 Associate Professor Durham, NC Pediatrics

Duke University Medical Center 1982-present Member - Cancer Center Durham, NC 1984-present Senior Investigator,

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Duke University Medical Center 1987-1990 Associate Professor of Durham, NC Pediatrics with Tenure

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Duke University Medical Center 1992-present Associate Chief of Durham, NC Preuss Laboratory for

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Duke University Medical Center 1997-present Co-Director, Clinical Durham, NC Neuro-Oncology Program

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Duke University Medical Center 2005-present Co-Deputy Director, Durham, NC The Preston Robert Tisch Brain Tumor Center at Duke

Duke University Medical Center 2010-present Associate Director for Durham, NC Clinical Research, Neuro-Oncology Program, Duke

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**PUBLICATIONS: REFEREED JOURNALS**

1. Coleman, R.A., Sommerville, H.M., Friedman, H.S., Kinney, T.R., and Falletta, J.M.:  
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1982.
2. Frank, J.A., Friedman, H.S., Davidson, D.M., Falletta, J.M., and Kinney, T.R.:  
Propionibacterium shunt nephritis in two adolescents with medulloblastoma. *Cancer*  
52:330-333, 1983.
3. Friedman, H.S., Bigner, S.H., McComb, R.D., Schold, S.C., Jr., Pasternack, J.F., Groothuis,  
D.R., and Bigner, D.D.: A model for human medulloblastoma - growth, morphology, and  
chromosomal analysis *in vitro* and in athymic mice. *J. Neuropathol. Exp. Neurol.*  
42:485-503, 1983.
4. Friedman, H.S., Schold, S.C., Jr., Varia, M., and Bigner, D.D.: Chemotherapy and radiation  
therapy of human medulloblastoma in athymic nude mice. *Cancer Res.* 43:3088-3093,  
1983.
5. Schold, S.C., Jr., Friedman, H.S., Bjornsson, T.D., and Falletta, J.M.: Treatment of patients  
with recurrent primary brain tumors with (AZQ). *Neurology* 34:615-619, 1984.
6. Friedman, H.S., Kurtzberg, J., Croker, B., Falletta, J.M., and Kinney, T.R.: Retinoblastoma  
metastatic to bone marrow. *Clin. Pediatr.* 23:184-187, 1984.
7. Schold, S.C., Jr., Friedman, H.S., Bjornsson, T.D., and Bigner, D.D.: Treatment of human  
glioma and medulloblastoma tumor lines in athymic mice with diaziquone and  
diaziquone-based drug combinations. *Cancer Res.* 44:2352-2357, 1984.
8. Friedman, H.S., Schold, S.C., Jr., Muhlbaier, L.H., Bjornsson, T.D., and Bigner, D.D.: *In*  
*vitro* versus *in vivo* correlations of chemosensitivity of human medulloblastoma. *Cancer*  
*Res.* 44:5145-5159, 1984.
9. Becton, D.L., and Friedman, H.S.: Management of solid tumors in children. *Compr. Ther.*  
10(11):58-66, 1984.

10. Becton, D.L., Kinney, T.R., Chaffee, S., Kurtzberg, J., Friedman, H.S., and Falletta, J.M.: High dose intravenous immunoglobulin for severe platelet alloimmunization. *Pediatrics* 74:1120-1122, 1984.

11. Glickman, L.T., Greene, R.B., DeGregory, K.T., Friedman, H.S., and Stockman, J.A.: Toxocara antigen and mitogen-induced lymphocyte blastogenesis for diagnosis of visceral larva migrans: clinical and experimental findings in macaques and human beings. *Am. J. Vet. Res.* 45:1235-1237, 1984.

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12. Ambruso, D.R., McCabe, E.R.B., Anderson, D., Beaudet, A., Ballas, L.M., Brandt, I.K., Brown, B., Coleman, R., Dunger, D.R., Falletta, J.M., Friedman, H.S., Haymond, M.W., Keating, J.P., Kinney, T.R., Leonard, J.V., Mahoney, D.H., Matalon, R., Roe, T.F., Simmons, P., and Slonim, A.E.: Infectious and bleeding complications in patients with glycogenosis 1b. *Am. J. Dis. Child.* 139:691-697, 1985.

13. Dranoff, G., Elion, G.B., Friedman, H.S., Campbell, G.L., and Bigner, D.D.: Influence of glutamine on the growth of human glioma and medulloblastoma in culture. *Cancer Res.* 45:4077-4081, 1985.

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15. Dranoff, G., Elion, G.B., Friedman, H.S., and Bigner, D.D.: Combination chemotherapy *in vitro* exploiting glutamine metabolism of human glioma and medulloblastoma. *Cancer Res.* 45:4082-4086, 1985.

16. Zeltzer, P.M., Friedman, H.S., Norris, D.G., and Ragab, A.: Criteria and definitions for response and relapse in children with brain tumors. *Cancer* 56:1824-1826, 1985.

17. Friedman, H.S., Burger, P.C., Bigner, S.H., Trojanowski, J., Halperin, E.C., and Bigner, D.D.: Establishment and characterization of the human medulloblastoma cell line and

transplantable xenograft D283 Med. J. Neuropathol. Exp. Neurol. 44:592-605, 1985.

18. Friedman, H.S., and Schold, S.C., Jr.: Rational approaches to the chemotherapy of medulloblastoma. Neurol. Clin. 3:843-853, 1985.

19. Bjornsson, T.D., Schold, S.C., Jr., Friedman, H.S., Schneider, D., and Falletta, J.M.: Pharmacokinetics of diaziquone after three different dosage regimens. Cancer Treat. Rep. 69:1383-1385, 1985.

20. Friedman, H.S., Schold, S.C., Jr., and Bigner, D.D.: Chemotherapy of subcutaneous and intracranial human medulloblastoma xenografts in athymic nude mice. Cancer Res. 46:224-228, 1986.

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22. Ware, R., Kinney, T.R., Friedman, H.S., and Falletta, J.: Prognostic implications for direct platelet associated IgG (PAIgG) in childhood ITP. Am. J. Pediatr. Hematol. Oncol. 8:32-37, 1986.

23. Bigner, D.D., Bigner, S.H., Burger, P.C., Shelburne, J.D., and Friedman, H.S.: Primary brain tumors in Fischer 344 rats chronically exposed to acrylonitrile in their drinking water. Food Chem. Toxicol. 24:129-137, 1986.

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24. Bigner, S.H., Friedman, H.S., Kinney, T.R., Kurtzberg, J., Chaffee, S., Becton, D., and Falletta, J.M.: 9P- in a girl with acute lymphocytic leukemia (ALL) and sickle cell disease. Cancer Genet. Cytogenet. 21:267-269, 1986.

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classical alkylators. *Cancer Res.* 46:2827-2833, 1986.

26. Månsson, J.E., Fredman, P., Bigner, D.D., Molin, K., Rosengren, B., Friedman, H.S., and Svennerholm, L.: Characterization of new gangliosides of the lactotetraose series in murine xenografts of a human glioma cell line. *FEBS Lett.* 201:109-113, 1986.

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33. Schold, S.C., Jr., Friedman, H.S., and Bigner, D.D.: Therapeutic evaluation of the human glioma line D-54 MG in athymic mice. *Cancer Treat. Rep.* 71:849-850, 1987.

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xenograft model. *Cancer Res.* 48:559-566, 1988.

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46. Lee, Y.S., Bullard, D.E., Humphrey, P.A., Colapinto, E.V., Friedman, H.S., Zalutsky, M.R., Coleman, R.E., and Bigner, D.D.: Treatment of intracranial human glioma xenografts with 131I anti-tenascin monoclonal antibody (MAb) 81C6. *Cancer Res.* 48:2904-2910, 1988.

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Jacobsen, P.F., Muhlbaier, L.H., and Bigner, D.D.: Experimental chemotherapy of human medulloblastoma cell lines and transplantable xenografts with bifunctional alkylating agents. *Cancer Res.* 48:4189-4195, 1988.

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51. Friedman, H.S., and Oakes, W.J.: Recurrent brain tumors in children. *Pediatr. Neurosci.* 13:233-241, 1988.

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55. Skapek, S.X., Colvin, O.M., Griffith, O.W., Groothuis, D.R., Colapinto, E.V., Lee, Y.S., Hilton, J., Elion, G.B., Bigner, D.D., and Friedman, H.S.: Buthionine sulfoximine-mediated depletion of glutathione in intracranial human glioma-derived xenografts. *Biochem. Pharmacol.* 37:4313-4317, 1988.

56. He, X., Skapek, S.X., Wikstrand, C.J., Friedman, H.S., Kemshead, J.T., Coakham, H.B., Bigner, S.H., and Bigner, D.D.: Phenotypic analysis of four human medulloblastoma cell

lines and transplantable xenografts. *J. Neuropathol. Exp. Neurol.* 48:48-68, 1989.

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66. Zalutsky, M.R., Garg, P.K., Friedman, H.S., and Bigner, D.D.: Labeling monoclonal antibodies and F(ab')<sub>2</sub> fragments with the alpha-particle emitting nuclide astatine-211: preservation of immunoreactivity and *in vivo* localizing capacity. *Proc. Natl. Acad. Sci. USA* 86:7149-7153, 1989.

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11

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74

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86

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87

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89

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90

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92

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101

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103

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104

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105

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106

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107

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108

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110

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112

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113

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114

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115

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116

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117

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119

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120

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122

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123

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124

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125

followed by BV, TMZ, and irinotecan (CPT-11) for newly diagnosed glioblastoma multiforme (GBM). Abstract 2015. 2009 ASCO Annual Meeting, May 29-June 2, 2009, Orange County Convention Center, Orlando, FL. *J. Clin. Oncol.* 27, Suppl. (15S, Part I): 90s, 2009.

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126

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oral etoposide for recurrent malignant gliomas. Abstract e13016. 2009 ASCO Annual Meeting, May 29-June 2, 2009, Orange County Convention Center, Orlando, FL. *J. Clin. Oncol.* ([http://www.abstract.asco.org/AbstView\\_65\\_34653.html](http://www.abstract.asco.org/AbstView_65_34653.html)), 2009.

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564. Desjardins, A., Vredenburgh, J.J., Peters, K.B., Friedman, A.H., Gururangan, S., Friedman, H., and Reardon, D.A.: Sunitinib plus irinotecan for patients with recurrent malignant glioma: a phase I trial. Abstract 303. Joint Meeting of SNO and AANS/CNS Section on Tumors. October 22-24, 2009, New Orleans, LA. *Neuro-Oncol.* 11(5):633, 2009.
565. Desjardins, A., Vredenburgh, J.J., Gururangan, S., Peters, K.B., Friedman, A.H., Friedman, H., and Reardon, D.A.: Vandetanib, imatinib mesylate, and hydroxyurea for recurrent malignant glioma: a phase I study. Abstract 304. Joint Meeting of SNO and AANS/CNS Section on Tumors. October 22-24, 2009, New Orleans, LA. *Neuro-Oncol.* 11(5):634, 2009.
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Sampson, J.H., Friedman, A.H., Friedman, H.F., and Vredenburgh, J.J.: Bevacizumab (BV) in combination to temozolomide (TMZ) and radiation therapy (RT) followed by BV, TMZ, and irinotecan (CPT-11) for newly diagnosed glioblastoma multiforme (GBM): a phase 2 trial. Abstract 305. Joint Meeting of SNO and AANS/CNS Section on Tumors. October 22-24, 2009, New Orleans, LA. *Neuro-Oncol.* 11(5):634, 2009.

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128

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ASCO Annual Meeting, June 4-8, 2010, McCormick Place, Chicago, IL. J. Clin. Oncol. 28, Suppl. (15S, Part I): 189s, 2010.

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573. Peters, K., Desjardins, A., Vredenburgh, J.J., Dryman, B., Gururangan, S., Friedman, H.S., and Reardon, D.A.: Imatinib mesylate plus hydroxyurea for adults with recurrent/progressive low-grade gliomas: final phase II study results. Abstract 2060. 2010 ASCO Annual Meeting, June 4-8, 2010, McCormick Place, Chicago, IL. J. Clin. Oncol. 28, Suppl. (15S, Part I): 194s, 2010.

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glioblastoma. Abstract 2089. 2010 ASCO Annual Meeting, June 4-8, 2010, McCormick Place, Chicago, IL. *J. Clin. Oncol.* 28, Suppl. (15S, Part I): 201s, 2010.

576. Desjardins, A., Reardon, D.A., Peters, K.B., Herndon II, J.E., Kirkpatrick, J.P., Friedman, H.S., and Vredenburgh, J.J.: Survival and toxicity update of the phase 2 trial of bevacizumab (BV) in combination with temozolomide (TMZ) and radiation therapy (RT) followed by BV, TMZ, and irinotecan (CPT-11) for newly diagnosed glioblastoma multiforme (GBM) patients. Abstract OT-34. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. *Neuro-Oncol.* 12:iv77, 2010.

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578. Keir, S.T., Gururangan, S., Reardon, D.A., Bigner, D.D., and Friedman, H.S.: Efficacy of LBH589 (Panobinostat) against a panel of pediatric brain tumor xenografts. Abstract ET-54. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. *Neuro-Oncol.* 12:iv99, 2010.

579. Peters, K.B., Reardon, D.A., Vredenburgh, J.J., Desjardins, A., and Friedman, H.S.: Characterization of long-term survivors of primary glioblastoma multiforme and their use of psychoactive medications. Abstract NC-09. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. *Neuro-Oncol.* 12:iv59, 2010.

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Hydroxyurea for adults with recurrent/progressive low-grade glioma. Abstract NO-58. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. Neuro-Oncol. 12:iv49, 2010.

581. Desjardins, A., Peters, K.B., Vredenburgh, J.J., Friedman, H.S., and Reardon, D.A.: Dasatinib (Sprycel) and erlotinib (Tarceva) for patients with recurrent malignant glioma: A phase I trial. Abstract#NO-67. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. Neuro-Oncol. 12:iv51, 2010.

582. Reardon, D.A., Vredenburgh, J.J., Desjardins, A., Janney, D.E., Peters, K., Sampson, J., Gururangan, S., and Friedman, H.S.: A phase I/II study of vorinostat plus daily temozolomide and bevacizumab in the treatment of patients with recurrent malignant glioma. Abstract OT-19. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. Neuro-Oncol. 12:iv73, 2010.

583. Peters, K.B., Reardon, D.A., Vredenburgh, J.J., Desjardins, A., and Friedman, H.S.: Retrospective analysis of insomnia in recurrent glioma patients and its association with dexamethasone and anti-epileptics. Abstract QL-23. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. Neuro-Oncol. 12:iv104, 2010.

584. Gururangan, S., Fangusaro, J. Poussaint, T.Y., Onar, A., Gilbertson, R., Packer, R., McLendon, R., Friedman, H.S., and Boyett, J.: Lack of efficacy of bevacizumab (BVZ) + irinotecan (CPT-11) in children with recurrent ependymoma (EPN) – a Pediatric Brain Tumor Consortium study. Abstract PC-06. 15th Annual Meeting of the Society for Neuro-Oncology, November 18-21, 2010, Montreal, Quebec, Canada. Neuro-Oncol. 12:iv82, 2010.

130

585. Reardon, D.A., Vredenburgh, J.J., Desjardins, A., Peters, K.B., Coan, A.D., Herndon, J.E.,

and Friedman, H.S.: Bevacizumab (BV) continuation following BV progression: metaanalysis of five consecutive recurrent glioblastoma (GBM) trials. Abstract 2030. 2011

ASCO Annual Meeting, June 3-7, 2011, McCormick Place, Chicago, IL. J. Clin. Oncol. 29, Suppl. (15S, Part I): 147s, 2011.

586. Lou, E., Reardon, D.A., Peters, K., Desjardins, A., Herndon, J.E., Coan, A.D., Turner, S.G., Sumrall, A.L., Bailey, L., Friedman, H.S., and Vredenburgh, J.J.: Upfront bevacizumab with temozolomide or with temozolomide and irinotecan for unresectable or multifocal glioblastoma. Abstract 2055. 2011 ASCO Annual Meeting, June 3-7, 2011, McCormick Place, Chicago, IL. J. Clin. Oncol. 29, Suppl. (15S, Part I): 153s, 2011.

587. Bota, D.A., Eroglu, Z., Reardon, D.A., Fu, B.D., Norfleet, J., Desjardins, A., Linskey, M.E., Peters, K., Friedman, H.S., and Vredenburgh, J.J.: Phase II clinical trial of bortezomib and bevacizumab combination in recurrent glioblastoma. Abstract 2056. 2011 ASCO Annual Meeting, June 3-7, 2011, McCormick Place, Chicago, IL. J. Clin. Oncol. 29, Suppl. (15S, Part I): 154s, 2011.

588. Desjardins, A., Reardon, D.A., Vredenburgh, J.J., Peters, K., Trikha, M., Gardner, J.M., Brickhouse, A., Herndon, J.E., and Friedman, H.S.: A pharmacokinetic (PK) study of AC480 administered twice daily in patients with surgically resectable, recurrent malignant glioma (MG) not on enzyme-inducing antiepileptic drug (EIAED). Abstract 2070. 2011 ASCO Annual Meeting, June 3-7, 2011, McCormick Place, Chicago, IL. J. Clin. Oncol. 29, Suppl. (15S, Part I): 157s, 2011.

589. Vredenburgh, J.J., Desjardins, A., Reardon, D.A., Peters, K., Kirkpatrick, J., Coan, A.D., Bailey, L., Janney, D., Lu, C., and Friedman, H.S.: Bevacizumab, temozolomide and radiation therapy followed by bevacizumab, temozolomide, and oral topotecan for newly diagnosed glioblastoma multiforme (GBM). Abstract 2098. 2011 ASCO Annual Meeting, June 3-7, 2011, McCormick Place, Chicago, IL. J. Clin. Oncol. 29, Suppl. (15S, Part I):

164s, 2011.

590. Sumrall, A.L., Reardon, D.A., Desjardins, A., Peters, K., Lou, E., Turner, S.G., Bailey, L, Friedman, H.S., and Vredenburgh, J.J.: Venous thromboembolic complications in patients with malignant glioma treated on a bevacizumab clinical trial. Abstract 9090. 2011 ASCO Annual Meeting, June 3-7, 2011, McCormick Place, Chicago, IL. J. Clin. Oncol. 29, Suppl. (15S, Part I): 572s, 2011.

131

132

#### **EDITORIALS, POSITION AND BACKGROUND PAPERS,**

#### **AND INVITED LECTURES**

1. Friedman, H.S., "Childhood Brain Tumors," Charlotte Memorial Hospital, Charlotte, NC, 5 March 1984.
2. Friedman, H.S., "Experimental Models of Human Medulloblastoma," Association for Brain Tumor Research, 9 October 1984.
3. Friedman, H.S., "Childhood ITP," Children's Memorial Hospital, Chicago, IL, 10 October 1984.
4. Friedman, H.S., "The Use of Experimental Models of Human Medulloblastoma in the Design of Rational Therapy," Evanston Hospital, Evanston, IL, 13 February 1985.
5. Friedman, H.S., "Treatment of Human Medulloblastoma with Classical Alkylators," The Johns Hopkins Cancer Center, Baltimore, MD, 8 July 1985.
6. Friedman, H.S., "Chemotherapy of Pediatric Brain Tumors" (Pediatric Grand Rounds), Children's Memorial Hospital, Chicago, IL, 18 September 1985.
7. Friedman, H.S., "Experimental Chemotherapy of Medulloblastoma" (Neurosurgical Grand Rounds), Visiting Professor of Neurosurgery - Northwestern University, Evanston, IL, 19 September 1985.

8. Friedman, H.S., "Current Approaches to the Chemotherapy of Medulloblastoma," New York Neurological Institute, New York, NY, 8 October 1985.
  9. Friedman, H.S., "Pediatric Brain Tumor Chemotherapy," Sixth International Conference on Brain Tumor Research and Therapy, London, 23 October 1985.
  10. Friedman, H.S., "Laboratory and Clinical Chemotherapy of Human Medulloblastoma," Memorial Sloan Kettering, New York, NY, 12 December 1985.
  11. Friedman, H.S., "Central Nervous System Xenografts and Classical Alkylators," The Johns Hopkins Cancer Center, Baltimore, MD, 8 January 1986.
  12. Friedman, H.S., "Treatment of Human Medulloblastoma with Melphalan," Burroughs-Wellcome, Invited Speaker, Research Triangle Park, NC, 8 July 1986.
  13. Friedman, H.S., "Chemotherapy of Childhood CNS Tumors," American Academy of Neurological Surgery, Sea Island, GA, 8 November 1986.
  14. Friedman, H.S., "Treatment of Pediatric Brain Tumors," American Association of Neurology, New York, NY, 10 April 1987.
  15. Friedman, H.S., "Alkylator Cytotoxicity and Resistance to Human Medulloblastoma," Memorial Sloan Kettering, New York, NY, 31 March 1988.
- 133
16. Friedman, H.S., "Alkylator Therapy of Human Medulloblastoma," Pediatric Branch, National Cancer Institute, Bethesda, MD, 8 June 1988.
  17. Friedman, H.S., "Laboratory Analysis of Pediatric Gliomas," Invited Speaker, Preuss Foundation for Brain Tumor Research, San Francisco, CA, 8 November 1988.
  18. Friedman, H.S., "Treatment of Pediatric Brain Tumors," Florida Association of Pediatric Tumor Programs, Tampa, FL, 18 November 1988.
  19. Friedman, H.S., "Therapy of Childhood Brain Tumors," Children's Hospital, Denver, CO, 22 March 1989.

20. Friedman, H.S., "Laboratory Analysis of Experimental Models of Human Medulloblastoma," ACS Neuro-Oncology Symposium, Children's Hospital, Denver, CO, 23 March 1989.
21. Friedman, H.S., "Genotypic, Phenotypic and Therapeutic Analysis of Experimental Models of Human Medulloblastoma," First Annual Dr. David S. Frommer Memorial Lecture in Neuro-Oncology, Joint Center for Radiation Therapy, Harvard Medical School, Boston, MA, 30 March 1989.
22. Friedman, H.S., "Morphologic, Phenotypic, and Genotypic Analysis of Laboratory Models of Human Medulloblastoma," American Association of Neuropathology, Dallas, TX, 19 June 1989.
23. Friedman, H.S., "Treatment of Medulloblastoma," Consensus Meeting of the European Organization of Research for the Treatment of Cancer (EORTC), Zermatt, Switzerland, 11 September 1989.
24. Friedman, H.S., "Treatment of Low-Grade Glioma," Consensus Meeting of the European Organization of Research for the Treatment of Cancer (EORTC), Zermatt, Switzerland, 11 September 1989.
25. Friedman, H.S., "Approaches to the Design of Chemotherapy Protocols," American Academy of Pediatrics, Neurology Section Scientific Presentation, Chicago, IL, 22 October 1989.
26. Friedman, H.S., "Rationale and Choice of Chemotherapeutic Agents and Clinical Significance," International Symposium on Pediatric Neuro-oncology, Philadelphia, PA, 26 May 1990.
27. Friedman, H.S., "Modulation of Alkylation Therapy by Perturbations of Glutathione Metabolism," Burroughs Wellcome, Invited Speaker, Research Triangle Park, NC, 18 June 1990.

28. Friedman, H.S., "Advances in the Treatment of Pediatric Brain Tumors," Children's Orthopedic Hospital, Seattle, WA, 30 August 1990.

134

29. Friedman, H.S., "Use and Potential of Monoclonal Antibody Conjugates for the Treatment of CNS Neoplasia," Cancer in the Nervous System, M.D. Anderson Cancer Center, Houston, TX, 4-5 November 1990.

30. Friedman, H.S., "Rationale and Difficulties to Deliver Chemotherapy Agents to CNS Tumors," Multidisciplinary Approach to CNS Tumors in Childhood, Genova, Italy, 10 November 1990.

31. Friedman, H.S., "Treatment of Recurrences-Experimental Studies," Multidisciplinary Approach to CNS tumors, Genova, Italy, 10 November 1990.

32. Friedman, H.S., "Novel Approaches to the Treatment of Childhood Brain Tumors," Memorial Medical Center, Savannah, GA, 14 December 1990.

33. Friedman, H.S., "Role of Glutathione in Drug Activity and Toxicity," Invited Speaker, Preuss Foundation for Brain Tumor Research, Durham, NC, 16-17 April 1991.

34. Friedman, H.S., "Glutathione-Mediated Drug Resistance," Gordon Conference, Colby Sawyer College, New Hampshire, 18 July 1991.

35. Friedman, H.S., "Pediatric Oncology Group (POG) Brain Tumor Progress Report," Ninth International Conference on Brain Tumor Research and Therapy, Pacific Grove, CA, 15 October 1991.

36. Friedman, H.S., "Childhood Brain Tumors," Presbyterian Hospital, Carolinas Medical Center, Charlotte, NC, 22 November 1991.

37. Friedman, H.S., "Treatment of Pediatric Brain Tumors," Boston Children's Hospital, Boston, MA, 8 January 1992.

38. Friedman, H.S., "Modulation of Alkylator Therapy of CNS Tumors," Dana-Farber Cancer

Institute, Boston, MA, 8 January 1992.

39. Friedman, H.S., "Current Strategies in the Treatment of Childhood Brain Tumors," The Hospital for Sick Children, Toronto, Canada, 24 February 1992.

40. Friedman, H.S., "Modulation of Alkylator Therapy of Childhood Medulloblastoma and Glioma," The Hospital for Sick Children, Toronto, Canada, 25 February 1992.

41. Friedman, H.S., "Treatment of Children with Brain Tumors," Medical College of Georgia, Augusta, GA, 4 May 1992.

42. Friedman, H.S., "Modulation of Alkylator Therapy of CNS Tumors," Medical College of Georgia, Augusta, GA, 5 May 1992.

43. Friedman, H.S., and Finlay, J.L.: Innovative Chemotherapeutic Strategies for Pediatric Brain Tumors," Position Paper, American Society of Clinical Oncology, 17 May, 1992.

135

44. Friedman, H.S., "Advances in the Treatment of Pediatric Brain Tumors," Greenville Cancer Center, Greenville, SC, 27 May 1992.

45. Friedman, H.S., "Management of Pediatric Brain Tumors," Cape Fear Pediatric Society, Wilmington, NC, 11 November 1992.

46. Friedman, H.S., "Therapeutic Strategies in the Management of Childhood Brain Tumors," Medical City Hospital, Dallas, TX, 18 November 1992.

47. Friedman, H.S., "Medulloblastomas and PNET," Harvard Medical School, Boston, MA, 2 December 1992.

48. Friedman, H.S., "Treatment of Neoplastic Meningitis," Children's Cancer Group National Meeting, St. Louis, MO, 3 April 1993.

49. Friedman, H.S., "Pediatric Treatment Options in the Management of CNS Tumors," American Brain Tumor Association National Symposium, Chicago, IL, 22 May 1993.

50. Friedman, H.S., "Laboratory and Clinical Therapeutics of Pediatric Brain Tumors," Johns



Hopkins Oncology Center, Baltimore, MD, 27 May 1993.

51. Friedman, H.S., "Cyclophosphamide Resistance of Medulloblastoma," Medulloblastoma, 1993, Marseilles, France, 13 June 1993.

52. Friedman, H.S., "O6-Alkylguanine-DNA Alkyltransferase and Brain Tumors," Gordon Conference, Munich, Germany, 8 October 1993.

53. Friedman, H.S., "Pediatric Brain Tumors - Diagnosis and Therapy," Gold Coast Conference on Pediatrics, Good Samaritan Medical Center, West Palm Beach, FL, 19 March 1994.

54. Friedman, H.S., "Chemotherapy Trials for High Grade Gliomas in Children," Sixth International Symposium on Pediatric Neuro-oncology, Houston, TX, 19 May 1994.

55. Friedman, H.S., "Modulation of Drug Resistance in Cancer," Sixth International Symposium on Pediatric Neuro-oncology, Houston, TX, 20 May 1994.

56. Friedman, H.S., "Therapy of Children with Brain Tumors", Holliman Visiting Brain Tumor Professor, University of Mississippi Medical Center, Jackson, MS, 2 June 1994.

57. Friedman, H.S., "Laboratory and Clinical Therapy of Pediatric CNS Neoplasms," Evan and Marion Helfaer Distinguished Lecture, Medical College of Wisconsin, Milwaukee, WI, 21 September 1994.

58. Friedman, H.S., "Laboratory Studies of CNS Tumor Drug Resistance," XII International Congress of Neuropathology, Toronto, Canada, 18 September 1994.

59. Friedman, H.S., "Characterization of Drug Resistance at the Phenotype and Molecular Level in CNS Tumors," Child Neurology Society and International Child Neurology Association, San Francisco, CA, 4 October 1994.

136

60. Friedman, H.S., "Alkylator Resistance in CNS Tumors," Case Western Reserve University, Cleveland, OH, 16 December 1994.

61. Friedman, H.S., "From the Laboratory to the Clinic and Back and Back and Back and Back:

An Investigation of Childhood CNS Tumors," St. Jude Childrens Research Hospital,  
Memphis, TN, 17 February 1995.

62. Friedman, H.S., "Laboratory and Clinical Evaluation of Brain Tumors," University of North  
Carolina, Chapel Hill, NC, 4 October 1995.

63. Friedman, H.S., "Molecular Determinants of Alkylator Resistance in CNS Tumors," Albert  
R. Taxin Brain Tumor Symposium, Wistar Institute, Philadelphia, PA, 30 November 1995.

64. Friedman, H.S., "Treatment of CNS Tumors with ABMT," Keystone Symposium,  
Keystone, CO, 16 January 1996.

65. Friedman, H.S., "Treatment of CNS Xenografts with Camptothecins," New York Academy  
of Science Conference on Camptothecins, Washington, D.C., 9 February 1996.

66. Friedman, H.S., "Alkylator Therapy with Cytokine Support for CNS Tumors," Amgen,  
Thousand Oaks, CA, 12 March 1966.

67. Friedman, H.S., "Bone Marrow Transplantation for CNS Tumors," Seventh International  
Symposium on Pediatric Neuro-oncology, Washington, D.C., 17 May 1996.

68. Friedman, H.S., "Advances in the Treatment of CNS Tumors," Annual Symposium on  
Advances in Cancer Research, Fox Chase Cancer Center, Philadelphia, PA, 11 October  
1996.

69. Friedman, H.S., "Methylation Resistance Mediated by Mismatch Repair Deficiency in a  
Glioblastoma Multiforme Xenograft," American Association for Cancer Research, San  
Diego, CA, 15 April 1997.

70. Friedman, H.S., "Treatment of Pediatric Brain Tumors with High Dose Chemotherapy and  
Autologous Stem Cell Rescue," American Society of Clinical Oncology, Denver, CO, 16  
May 1997.

71. Friedman, H.S., "Treatment of Adult Brain Tumors," Rex Cancer Center, Raleigh, NC, 3  
June 1997.

72. Friedman, H.S., "Chemotherapy of Pediatric Brain Tumors," American Brain Tumor Association Symposium, Chicago, IL, 19 July 1997.

73. Friedman, H.S., "Chemotherapy of Adult Brain Tumors," American Brain Tumor Association Symposium, Chicago, IL, 19 July 1997.

74. Friedman, H.S., "Pediatric Oncology Group Clinical Trials," American Brain Tumor Association Symposium, Chicago, IL, 19 July 1997.

137

75. Friedman, H.S., "Treatment of a Brain Tumor Means Treating the Whole Family," American Brain Tumor Association Symposium, Chicago, IL, 20 July 1997.

76. Friedman, H.S., "Phase I Trial of O6-BG in Recurrent Glioma," NCI Phase I Meetings, Bethesda, MD, 12 September 1997.

77. Friedman, H.S., "Temodal Therapy of Newly Diagnosed High Grade Glioma," Twelfth International Conference on Brain Tumor Research and Therapy, Oxford, England, 21 September 1997.

78. Friedman, H.S., "Mismatch Repair Deficiency in Glioblastoma," Twelfth International Conference on Brain Tumor Research and Therapy, Oxford, London, 21 September 1997.

79. Friedman, H.S., "Monoclonal Antibody Therapy of CNS Tumors," Twelfth International Conference on Brain Tumor Research and Therapy, Oxford, London, 21 September 1997.

80. Friedman, H.S., "Temodal and CPT-11 Therapy of CNS Tumors," Mt. Sinai Medical Center Chemotherapy Foundation Symposium XIV, New York, NY, 7 November 1997.

81. Friedman, H.S., "CPT-11 Therapy of Malignant Brain Tumors," Glioma Symposium, N.Y.U. Medical Center, New York, NY, 7 November 1997.

82. Friedman, H.S., "Chemotherapy of Malignant Glioma in Adults," Massachusetts General Hospital, Boston, MA, 14 November 1997.

83. Friedman, H.S., "State of the Art Treatment for Brain Tumors," American Brain Tumor

Association, Research Triangle Park, NC, 14 June 1998.

84. Friedman, H.S., "Novel Uses of Gliadel with Systemic Chemotherapy," Gliadel Symposia, Las Vegas, NV, 10 July 1998.

85. Friedman, H.S., "Novel Chemotherapeutic Strategies of Malignant Glioma, University of Chicago, 3 August 1998.

86. Friedman, H.S., "Phase I Trial of O6-BG + BCNU," NCI Phase I Meetings, Bethesda, MD, 15 September 1998.

87. Friedman, H.S., "Temozolomide: Novel Strategies for Newly Diagnosed Glioma," Third Annual European Association of Neuro-oncology Congress, Versailles, France. 11 September 1998.

88. Friedman, H.S., "Temozolomide and CPT-11 plus BCNU Therapy of Malignant Glioma," Mt. Sinai Medical Center Chemotherapy Symposia XV, New York, NY, 13 November 1998.

89. Friedman, H.S., "Temozolomide in Malignant Glioma", Glioma Symposia, NYU Medical Center, New York, NY, 13 November 1998.

138

90. Friedman, H.S., "Temodal® Therapy of GBM and AA", Food and Drug Administration, Washington, DC, 12 January 1999.

91. Friedman, H.S., "Treatment of Childhood Brain Tumors", South Honda Brain Tumor Association Annual Meeting, West Palm Beach, FL, 24 January 1999.

92. Friedman, H.S., "Biochemical Mechanisms of Temozolomide Resistance, American Association of Cancer Research, Philadelphia, PA, 12 April 1999.

93. Friedman, H.S., "Adult Brain Tumors", American Brain Tumor Association, Chicago, IL, 23 July 1999.

94. Friedman, H.S., "Pediatric Brain Tumors", American Brain Tumor Association, Chicago,

IL, 24 July 1999.

95. Friedman, H.S., "Brain Tumor Center at Duke, CPT-11 Trials for CNS Tumors", Investigators Meeting, 18 November 1999.

96. Friedman, H.S., "Brain Tumor Center at Duke, Temodar Trials for CNS Tumors", Investigators Meeting, 18 November 1999.

97. Friedman, H.S., "Duke Brain Tumor Center CPT-11 Trials for Brain Tumors", Society for Neuro-Oncology, Scottsdale, AZ, 19 November 1999.

98. Friedman, H.S., "Duke Brain Tumor Center Temodar Trials for Brain Tumors", Society for Neuro-Oncology, Scottsdale, AZ, 19 November 1999.

99. Friedman, H.S., "Topoisomerase I Inhibitors and CNS Tumors", St. Jude Childrens Research Hospital, Memphis, TN, 23 September 2000.

100. Friedman, H.S., "Temodar Therapy of CNS Tumors", Florida Hospital, Orlando, FL, 29 December 2000.

101. Friedman, H.S., "Treatment of CNS Tumors with Temodar", M.D. Anderson – Jacksonville, Jacksonville, FL, 15 March 2001.

102. Friedman, H.S., "CPT-11 Therapy of CNS Tumors", Vanderbilt University Medical Center, 23 March 2001.

103. Friedman, H.S., "Novel Therapeutic Strategies for Brain Tumors", New York Medical College, Valhalla, NY, 20 April 2001.

104. Friedman, H.S., "Duke Brain Tumor Center Clinical Trials," Asheville, NC, 28 May 2001.

105. Friedman, H.S., "Current Treatment of CNS Tumors," University of Alabama, Birmingham, AL, 12 August 2001.

106. Friedman, H.S., "New Treatment Strategies for CNS Tumors," George Washington University, Washington, D.C., 5 December 2001.

107. Friedman, H.S., "New Treatment Strategies for CNS Tumors," Georgetown University, Washington, D.C., 6 December 2001.
108. Friedman, H.S., "Brain Tumor Therapy 2002," Florida Brain Tumor Association Annual Meeting, Tampa, Florida, 26 January 2002.
109. Friedman, H.S., "Regional Therapy of Malignant Glioma," George Washington University, Washington, D.C., 2 February 2002.
110. Friedman, H.S., "New Therapies for Malignant Glioma," Yale Comprehensive Cancer Center, New Haven, CT, 1 October 2002.
111. Friedman, H.S., "Treatment of Malignant Brain Tumors," St. Francis Hospital, Hartford, CT, 1 October 2002.
112. Friedman, H.S., "New Treatment Strategies for Malignant Glioma," Karmanos Cancer Institute, Detroit, MI, 19 December 2002.
113. Friedman, H.S., "New Strategies for CNS Tumors," Florida Brain Tumor Association, West Palm Beach, 18 January 2003.
114. Friedman, H.S., "Lab to Clinical Therapy of CNS Tumors," Fox Chase Cancer Center, Philadelphia, PA, 30 January 2003.
115. Friedman, H.S., "New Treatments for CNS Tumors," University of Louisville, Louisville, KY, 15 May 2003.
116. Friedman, H.S., "CNS Tumors – Novel Approaches to Therapy," Massachusetts General Hospital, Boston, MA, 25 June 2003.
117. Friedman, H.S., "Treatment of CNS Tumors," Washington University, St. Louis, MO, 12 December 2003.
118. Friedman, H.S., "Treatment of Malignant Glioma: Bench to Bedside," University of Tennessee, Knoxville, TN, 27 July 2004.
119. Friedman, H.S., "Temozolomide Therapy of CNS Lymphoma," Massachusetts General

Hospital, Boston, MA, 7 September 2004.

120. Friedman, H.S., "Treatment of Glioma," Grand Rapids Medical Center, Grand Rapids, MI, 9 September 2004.

121. Friedman, H.S., "Treatment of CNS Tumors," Mayfield Clinic, Cincinnati, OH, 9 September 2004.

122. Friedman, H.S., "Treatment of Brain Tumors," Virtual Trials Review (Al Musella), 12 September 2004.

123. Friedman, H.S., "Brain Tumor Strategies," Geisinger Clinic, Danville, PA, 5 October 2004.  
140

124. Friedman, H.S., "Brain Tumors – Treatment Strategies," Western North Carolina Oncology Symposium, Asheville, NC, 22 October 2004.

125. Friedman, H.S., "Brain Tumor Volleyball," Brain Tumor Society Annual Meeting, Boston, MA, 30 October 2004.

126. Friedman, H.S., "Gliomas," Neuro-oncology 2005 – Current Concepts, Lake Buena Vista, FL, 30 January 2005.

127. Friedman, H.S., "Malignant Gliomas," Medical College of Georgia, Augusta, GA, 1 September 2005.

128. Friedman, H.S., "New Hope for Patients with Brain Tumors," West Virginia University School of Medicine, Morgantown, West Virginia, 7 October 2005.

129. Friedman, H.S., "New Brain Tumor Strategies for Malignant Glioma," Hackensack, University Medical Center, Hackensack, NJ, 11 November 2005.

130. Friedman, H.S., "Therapy of CNS Tumors," University of Florida, Gainesville, FL, 24 October 2006.

131. Friedman, H.S., "Treatment of CNS Tumors," University of Kansas, Kansas City, MO, 10 November 2006.

132. Friedman, H.S., "Treatment of Recurrent Malignant Glioma," Society of Neuro-Oncology, Orlando, FL, 17 November 2006.
133. Friedman, H.S., "AGT/MGMT-related Methylator/Alkylator Resistance in Malignant Glioma," Society of Neuro-Oncology, Orlando, FL, 17 November 2006.
134. Friedman, H.S., "New therapy for primary brain tumors," University of Mississippi Medical Center, Jackson, MS, 17 April 2007.
135. Friedman, H.S., "Treatment options for malignant glioma", Rush Medical Center, Chicago, IL, 21 June 2007.
136. Friedman, H.S., "Malignant Glioma", Indiana University Neurosurgery, Grand Rounds, Indianapolis, IN, 17 July 2007.
137. Friedman, H.S., "Treatment of Primary Brain Tumors", New England Medical Center, Boston, MA, 6 September 2007.
138. Friedman, H.S., "New Treatment Strategies for Malignant Brain Tumors", Piedmont Hospital, Atlanta, GA, 24 September 2007.
139. Friedman, H.S., "Brain Tumor Therapy", Western Carolina Oncology Society, Asheville, NC, 19 October, 2007.
- 141
140. Friedman, H.S., "New Treatment Strategies for Brain Tumors", Columbus, OH, 30 October, 2007.
141. Friedman, H.S., "Malignant Glioma: New Strategies", Stanford, CA, 10 January, 2008.
142. Friedman, H.S., "Brain Tumor Update", Helen Graham Cancer Center, Newark, DE, 17 January 2008.
143. Friedman, H.S., "Brain Tumor Therapy", North Carolina Neurological Society, Greensboro, NC, 15 February 2008.
144. Friedman, H.S., "New Hope for Brain Tumor Patients", Toledo, OH, 23 April 2008.



145. Friedman, H.S., "New Treatments for Brain Tumors", West Jefferson Medical Center, Marrero, LA, 15 May 2008.
146. Friedman, H.S., "New Hope for GBM", Albany Medical Center, Albany, NY, 27 August 2008.
147. Friedman, H.S., "Advances in the Treatment of Malignant Glioma," JFK Medical Center, Edison, NJ, 29 October 2008.
148. Friedman, H.S., "Glioma Resistance and MGMT", GBM Awareness Day, New York, NY, 13 November 2008.
149. Friedman, H.S., "Treatment of Malignant Glioma", Duke Raleigh Hospital, Raleigh, NC, 4 May 2010.
150. Friedman, H.S., "Therapy of Malignant Glioma with Avastin", Cooper University Hospital, Camden, NJ, 6 June 2010.
151. Friedman, H.S., "Avastin Therapy of Malignant Glioma", Raleigh Regional Cancer Center, Beckley, WV, 7, July 2010.
152. Friedman, H.S., "Treatment of Glioblastoma Multiforme", Dent Neurological Institute, Buffalo, NY, 5, May 2011.
153. Friedman, H.S. and Buckner, J., "Current State of Neuro-Oncology: Successes, Failures and the Future," American Society of Clinical Oncology, Chicago, IL, 6, June 2011.
154. Friedman, H.S., "New Hope for Patients With Brain Tumors," Montreal Neurological Institute, Montreal, Canada, 21, September 2011.

143

**CONSULTATIVE APPOINTMENTS/JOURNAL REVIEWER**

National Cancer Institute - Developmental Therapeutics Program

"*In Vitro* Screening"

10 January 1985

National Cancer Institute - Organ Site Program (CNS)

"Classical Alkylator Cytotoxicity and Resistance in Medulloblastoma"

25 June 1987

NIH - Study Section Reviewer (Tissue Culture)

Small Business Research Grants

4 March 1988

American Association of Cancer Research

Chairman, Clinical Investigations I

25 May 1988

Association for Brain Tumor Research

Medical Advisory Council

1989-Present

Medical Care Ombudsman Program

Candlelighters Childhood Cancer Foundation

1991-Present

National Cancer Institute - Special Review Committee

RFA-DCBDC Small Research Grants on Animal Models of Solid Tumors

25-26 March 1991

National Cancer Institute - Experimental Therapeutics-2

Ad Hoc Reviewer

28-30 October 1991

National Institute for Neurologic Diseases and Stroke - Special Review Committee

RFA - Brain Tumor Research Center Feasibility Grant

25-27 March 1992

National Cancer Institute - Experimental Therapeutics-2

Ad Hoc Reviewer

23-25 June 1992

National Cancer Institute - Experimental Therapeutics-2

Study Section Member

1 July 1992 - 30 June 1996

National Childrens Cancer Society

Medical Advisory Board

1993 - Present

144

National Cancer Institute - Experimental Therapeutics-2

Ad Hoc Reviewer

30 October - 1 November 1996

National Cancer Institute - Experimental Therapeutics-2

Ad Hoc Reviewer

26-28 February 1997

National Cancer Institute - Experimental Therapeutics-2

Ad Hoc Reviewer

25-27 June 1997

National Cancer Institute - Experimental Therapeutics-2

Study Section Member

1 July 1997 - 30 June 2001

Editorial Board

Neuro-oncology

July 1997 - present

Editorial Board

Journal of Clinical Oncology

January 1999 - 31 December 2002

Editorial Board

Clinical Cancer Research

January 2000 – present

Editorial Board

Cancer (Associate Editor of Neuro-oncology)

January 2000 – present

Oncologic Drugs Advisory Committee (Peds Subcommittee)

Food and Drug Agency

January 2001-present

National Cancer Institute – Z CA-1 RTRB-A (Manpower and Training)

Ad Hoc Reviewer

27-28 February, 2006

National Cancer Institute – Z CA-11 RTRB-A (Manpower and Training)

Ad Hoc Reviewer

12-13 February, 2008.

National Cancer Institute – Z CA-11 RTRB-A (Manpower and Training)

Study Section Member

1 July 2008 – 30 June 2012

145

Manuscripts Reviewed for the Following Journals:

*Acta Neuropathologica*

*American Journal of Pathology*

*Biochemical Pharmacology*

*Cancer – Associate Editor for Neuro-Oncology*

*Cancer Chemotherapy and Pharmacology*

*Cancer Communications*

*Cancer Research*

*Chemico-Biological Interactions*

*Clinical Cancer Research*

*International Journal of Radiation Oncology, Biology, Physics*

*Investigational New Drugs*

*Journal of Clinical Oncology*

*Journal of the National Cancer Institute*

*Journal of Neurosurgery*

*Journal of Neuropathology and Experimental Neurology*

*Journal of Neuro-Oncology*

*Journal of Pediatrics*

*Molecular Cancer Research*

*Molecular Cancer Therapy*

*Neuro-oncology*

*Neurosurgery*

*New England Journal of Medicine*

*Pediatrics*

*Proceedings of the National Academy of Science*

**PROFESSIONAL AWARDS AND SPECIAL RECOGNITIONS**

Citation, Upstate Medical Center, 1977

F. Wayne Rundles Award for Outstanding Cancer Research, Duke University

Comprehensive Cancer Center, 1990

Gary Lichtenstein Humanitarian Award, Voices Against Brain Cancer, 2010

Visionary Award, Tug McGraw Foundation, 2010

**ORGANIZATIONS AND PARTICIPATIONS**

Fellow, American Academy of Pediatrics, 1982-Present

North Carolina Pediatric Society, 1982-Present

Pediatric Oncology Group, 1982-Present

Pediatric Oncology Group: Brain Tumor Core Committee, 1983-Present

Pediatric Oncology Group: Vice-Chairperson, Brain Tumor Core Committee, 1988-1991

Southern Society for Pediatric Research, 1983-Present

American Society of Clinical Oncology, 1985-Present

American Association of Neuropathology, 1985-Present

American Association for Advancement of Science, 1985-Present

American Association for Cancer Research, 1986-Present

Society for Pediatric Research, 1986-Present

146

American Cancer Society: Professional Education Committee, 1990-1994

American Cancer Society (NC Division): Board of Directors, 1991-1994

Pediatric Oncology Group: Chairperson, Brain Tumor Core Committee, 1991-2000

Society for Neuro-Oncology, 1994-present

American Society for Clinical Investigation, 1994-Present

American Society of Clinical Oncology: Cancer Education Committee, 2000-present

Tug McGraw Foundation, Chairperson, Medical Advisory Council, 2006-present

147

(Prepared by Chairman)

**Teaching Responsibilities Including Continuing Education:**

#### Medical Student Lectures:

Dr. Friedman presents lectures to the medical students enrolled on the Neurooncology elective.

#### Teaching Conferences:

Dr. Friedman presents lectures in the Pediatrics, Medicine and Neurosurgical Housestaff Conference Series.

#### Individual Medical Student and Resident Teaching:

As an integral part of his clinical responsibilities, Dr. Friedman is involved in individual medical student and resident teaching in neuro-oncology.

#### Continuing Education:

Within the institution, Dr. Friedman regularly attends and participates in the departmental conferences listed above, as well as grand rounds and clinical conferences in other departments (including the Pathology Brain Cutting, Neuro-Radiology, and Neuroscience conferences). He regularly attends the annual meeting of the American Association for Cancer Research, the Society for Neuro-Oncology, and the American Society of Clinical Oncology, where he presents papers, attends scientific sessions, and chairs sessions as listed under "Selected Abstracts" and "Consultative Appointments."

#### **Areas of Research Interests (Basic and Applied) - List:**

##### 1. Biology and Therapeutic Profile of Central Nervous System Tumors

Dr. Friedman has established the most rigorously studied models of human medulloblastoma, ependymoma and childhood and adult glioma extant. He has had longstanding collaborative relationships with Dr. O. Michael Colvin studying alkylator cytotoxicity and resistance in medulloblastoma; with Dr. Owen Griffith of the Medical College of Milwaukee studying central nervous system metabolism of glutathione, with Dr. Eileen Dolan of the University of Chicago and Dr. Tony Pegg of Penn State University

studying modulation of CNS tumor alkyltransferase activity, and with Dr. Paul Modrich and Dr. Francis Ali-Osman studying mismatch repair deficiency and methylator resistance..

As a member of the Duke Comprehensive Cancer Center, Dr. Friedman functions as the senior investigator in charge of Module 1 of the CCIF, as well as conducting his studies in medulloblastomas, ependymomas and childhood gliomas grown in athymic nude mice.

148

## 2. Clinical Investigation

Dr. Friedman's major area of clinical investigation is in the therapy of children and adults with newly diagnosed and recurrent brain tumors. He is the co-Deputy Director of The Preston Robert Tisch Brain Tumor Center at Duke and the Associate Director of Clinical Research, Neuro-Oncology Program, Duke Cancer Institute and designs clinical trials for children and adults with brain tumors seen at Duke (seeing 70-100 new patients per month).

### **External Support (Past and Present) - Gifts, Grants, and Contracts:**

Purpose Duration Present Year Total

1. Junior Faculty Clinical 1983-86 \$ 27,000

Fellowship from the

American Cancer Society

2. Association for Brain 1983-86 \$ 60,000

Tumor Research

3. Duke Medical Center 1984 \$ 30,000

Institutional ACS Award

4. Duke Comprehensive Cancer 1982-84 \$ 30,000

Center Development Funds

(CA-14236)



5. Project Leader in Specialized 1984-89 \$201,000

Center of Research on Malignant

Gliomas and Medulloblastoma

(NS20023) Project 3C

6. NINCDS T-I Research 1985-90 \$261,600

Career Development Award

(#NS00958)

7. Principal Investigator 1987-89 \$127,000

on American Cancer Society

Grant (CH-403)

8. Principal Investigator 1987-91 \$201,500

on National Cancer

Institute RO1 Grant CA 44640

9. Project Leader in Specialized 1989-94 \$72,080 \$401,000

149

Center of Research on Malignant

Gliomas and Medulloblastoma

(NS20023) Project 4B

10. Principal Investigator 1990-92 \$175,000

on American Cancer Society

Grant (CH-403B)

11. Principal Investigator 1992-1993 \$202,000

on American Cancer Society

Grant (CH-403C)

12. Principal Investigator 1992-1995 \$101,633 \$351,426

on NINDS

RO1 Grant NS 30245

13. Project Leader in 1992-1996 \$ 95,219 \$416,540

National Cooperative

Drug Discovery Group

(U 01 CA 57725)

14. Principal Investigator 1991-1993 \$ 60,000

on Melphalan and Cyclophosphamide

with Autologous BMT for

Supratentorial Glioma or

Recurrent Brain Tumors

(Burroughs Wellcome Co.)

15. Principal Investigator 1993-1994 \$ 50,000

on Phase II Therapy of

Cyclophosphamide plus GM-CSF

for Recurrent, Persistent,

or Progressive Brain Tumors

(Imunex Co.)

16. Principal Investigator 1993-1995 \$100,000

on Phase I Therapy of Intrathecal

Melphalan for Patients

with Neoplastic Meningitis

(Burroughs Wellcome Co.)

150

17. Principal Investigator 1993-1994 \$ 90,000

on Phase I Dose Escalation

Trial of Carboplatin in the

Treatment of Malignant

CNS Tumors

(Amgen Co.)

18. Chairman, Pediatric Oncology 1993-1995 \$75,000

Group Brain Tumor Committee

(U5 CA 15525)

19. Institutional P.I. 1993-1996 \$ 7,500

US Army DAND

17-93-V 3016

20. Principal Investigator 1994-1996 \$254,000

on American Cancer Society

Grant (DHP-67E)

21. Project Leader in Specialized 1994-1999

Center of Research on Malignant Project 4 \$107,835 \$539,175

Glioma and Medulloblastoma Project 5 \$157,310 \$786,550

(NS20023)

22. Principal Investigator 1995-1997 \$160,000

on Phase II Trial of

Temozolomide in Treatment

of Recurrent Glioblastoma

Multiforme (Schering-Plough Co.)

23. Principal Investigator on 1995-1997 \$120,000

Phase II Trial of Temozolomide

in Treatment of Recurrent

Anaplastic Astrocytoma

(Schering-Plough Co.)

24. Brain Tumor Foundation 1995-1996 \$ 50,000

of the U.S.

25. Principal Investigator 1995-1999 \$150,000 \$460,000

on NINDS

RO1 Grant NS 30245

26. Principal Investigator on Phase I 1995-1997 \$122,308 \$245,571

Trial of O6-Benzylguanine Plus

BCNU in Glioma (CA67266)

151

27. Principal Investigator 1996-1997 \$103,000

on Rapamycin Therapy of

Brain Tumors

(Wyeth-Ayerst Co.)

28. Principal Investigator on 1996-1997 \$100,000

Therapy of Neoplastic

Meningitis in Athymic Nude

Rats with Busulfan

(Sparta)

29. Principal Investigator on 1996-1997 \$133,000

Therapy of Neoplastic Meningitis

in Athymic Nude Rats with

Temozolomide

(Schering Plough Co.)

30. Principal Investigator on American 1996-1997 \$126,000

Cancer Society Grant

(DHP-67H)

31. Project Leader in National 1996-01 \$ 97,403 \$527,345

Cooperative Drug Discovery

Group (UO1 CA95020)

32. Principal Investigator on 1996-1997 \$150,000

Phase II Trial of Temozolomide

in Treatment of Newly Diagnosed

High Grade Glioma

(Schering-Plough Co.)

33. Principal Investigator on 1997-1998 \$ 40,000

Phase I Trial of Topotecan +

BCNU for Recurrent High

Grade Glioma (Smith-Kline-Beecham)

34. Principal Investigator on 1997-2000 \$ 50,000

Phase I Trial of CPT-11 + BCNU

for Recurrent High Grade Glioma

(Pharmacia and Upjohn)

35. Principal Investigator on 1997-1998 \$ 40,000

Phase I Trial of Intrathecal

Topotecan for Patients with

Neoplastic Meningitis

(Smith-Kline-Beecham)

152

36. Principal Investigator on 1997-1998 \$ 123,000

Phase II Trial of CPT-11 for Adults

and Children with Malignant

Brain Tumors (Pharmacia

and Upjohn)

37. Principal Investigator on 1997-1999 \$ 170,000

Phase II Trial with Laboratory

Correlates of Temozolomide in

Treatment of Newly Diagnosed GBM

(Schering-Plough Co.)

38. Principal Investigator on 1997-1999 \$ 247,000

Phase II Trial of Gliadel

Wafers for Adults with

Recurrent Low Grade Glioma

(Rhone-Poulenc-Rorer)

39. Principal Investigator on 1997-1999 \$ 150,000

Phase II Trial of Temozolomide

for Patients with Progressive Low

Grade Glioma (Schering-Plough Co.)

40. Principal Investigator on Phase II 1997-1999 \$ 150,000

Trial of Temozolomide for Adults

with Newly Diagnosed or Recurrent

Anaplastic Oligodendroglioma

(Schering-Plough Co.)

41. Principal Investigator on Phase I 1997-1999 \$ 72,000

Trial of Gliadel Wafers Plus

Temozolomide for Adults with

Progressive High Grade Glioma

(Schering-Plough Co. and Rhone-

Poulenc-Rorer)

42. Principal Investigator on Phase I 1998-1999 \$ 72,000

Trial of Gliadel Wafers Plus

CPT-11 for Adults with Progressive

High Grade Glioma

(Schering-Plough Co. and Rhone-

Poulenc-Rorer)

43. Principal Investigator on Phase II 1998-1999 \$ 140,000

Trial of L-Alanosine for Adults

with Recurrent High Grade Glioma

(Triangle Pharmaceuticals)

153

44. Principal Investigator on FDA Grant: 1998-2001 \$ 300,000

Phase I Trial of Intrathecal Busulfan

for Patients with Neoplastic

Meningitis (FDA)

FD-R-001519-01

45. Principal Investigator on NCI Grant 1998-2005 \$215,696 \$1,157,756

T32 CA74736 – Research Training

In Neuro-Oncology

46. Principal Investigator on NINDS 1999-2004 \$225,000 \$ 1,203,058

R01 Grant NS 30245: DNA Repair

Mediated Resistance in CNS Tumors

47. Principal Investigator on Phase II 1999-2000 \$ 250,000

Trial of Temozolomide for

Brain Metastases

(Schering-Plough Co.)

48. Principal Investigator on Phase II 1999-2000 \$ 360,000

Trial of Temozolomide for

Children with Newly Diagnosed

Brain Tumors

(Schering-Plough Co.)

49. Principal Investigator on Phase I 1999-2000 \$ 150,000

Trial of Anti-angiogenesis Agent

PXY in Patients with Recurrent

Malignant Brain Tumors

(Novartis)

50. Principal Investigator on Phase I 1999-2000 \$ 150,000

Trial of CPT-11 plus Temozolomide

For Patients with Recurrent

Malignant Glioma (Schering-

Plough Co. and Pharmacia and

Upjohn)

51. Principal Investigator on NCI Grant 1999-2001 \$150,000 \$ 300,000

R21 CA81651 – Temozolomide



Resistance in CNS Tumors

154

52. Principal Investigator on Phase II 2000-2002 \$ 50,000

Trial of Temozolomide for Patients

with Newly Diagnosed or

Progressive CNS Lymphoma

(Schering-Plough Co.)

53. Principal Investigator on Phase II 2000-2002 \$ 525,000

Trial of CPT-11 for Patients with

Brain Metastases (Pharmacia and

Upjohn)

54. Principal Investigator on Phase II 2000-2002 \$ 40,000

Trial of Temodar plus Gliadel

Wafers for Patients with Recurrent

Malignant Glioma (Aventis Co. and

Schering-Plough Co.)

55. Principal Investigator on Phase II 2000-2002 \$ 100,000

Trial of O6-Benzylguanine Plus

BCNU for Patients with Nitrosourea

Resistant Malignant Glioma

56. Principal Investigator on Phase I 2000-2002 \$ 90,000

Trial of CPT-11 Plus Temodar for

Patients with Recurrent Malignant

Glioma (Pharmacia,

and Schering-Plough Co.)

57. Principal Investigator on Phase I 2000-2002 \$ 30,000

Trial of Temozolomide Plus

VP-16 for Patients with Recurrent

Malignant Glioma (Schering-Plough

Co.)

58. Principal Investigator on Phase I Trial 2000-2002 \$ 100,000

of SCH66636 for Patients with

Recurrent Malignant Glioma

(Schering-Plough Co.)

59. Principal Investigator on Phase II 2001-2003 \$ 250,000

Trial of CPT-11 Plus BCNU for

Patients with Malignant Glioma

(Pharmacia Co.)

60. Principal Investigator on NCI Grant 1999-2004 \$125,000 \$ 625,000

U01 CA81474 – Pediatric Brain

Tumor Consortium

155

61. Principal Investigator on Phase II 2001-2003 \$ 150,000

Trial of Thalidomide Plus

Cyclophosphamide for Newly Diagnosed

or Recurrent Malignant Glioma

(Celgene)

62. Principal Investigator on NCI Grant: 2001-2003 \$225,000 \$ 450,000

R21 CA091548) – Phase II Trial of

ZD1839 for First Relapse Glioblastoma

63. Principal Investigator on Phase II Trial 2001-2003 \$ 100,000

of Irofulven for Patients with

Recurrent Malignant

Glioma (MGI Pharma)

64. Principal Investigator on 2001-2002 \$ 100,000

Phase II Trial of Karenitecin for

Patients with Newly Diagnosed or

Recurrent Malignant Glioma

(BioNumerik)

65. Principal Investigator on 2001-2005 \$225,000 \$ 900,000

NCI RO1 CA 94231:

Regional AGT Depletion of CNS

and Leptomeningeal Tumors

66. Principal Investigator on 2002-2003 \$ 125,000

Phase II Trial of CPT-11/Celebrex

for Newly Diagnosed or

Recurrent Malignant Glioma

67. Principal Investigator on 2003-2004 \$ 50,000

Phase I Trial of CPT-11/Temodar/

O6-BG for Recurrent Malignant

Glioma

68. Principal Investigator on 2004-2009 \$125,000 \$ 675,000

NCI Grant UO1 CA 81457:

Pediatric Brain Tumor Consortium

69. Principal Investigator on 2005-2010 \$250,000 \$ 1,250,000

NCI RO1 NS 30245: Temozolomide

Resistance in CNS Tumors

70. Principal Investigator on NCI Grant 2005-2010 \$300,571 \$ 1,501,855

T32 CA 74736: Research Training

156

in Neuro-Oncology

71. Principal Investigator on 2006-2007 \$ 350,000

Phase II Trial of Avastin vs. Avastin

plus CPT-11 for First or Second Relapse

GBM (Genentech)

72. Principal Investigator on Voices 2009-2011 \$50,000 \$ 100,000

Against Brain Tumors Grant: Stem

Cell Models to Stimulate Neuro-

Regeneration Following Whole Brain

Radiation Therapy in a Mouse Model

of Malignant Glioma

73. Principal Investigator on NCI Grant 2010-2015 \$296,172 \$ 1,480,860

T32 CA 74736: Research Training in

Neuro-Oncology

157

**Clinical Activity - Type of Practice and Estimate of Time Commitment:**

Laboratory Research: 20%

Clinical Research/Service: 80%

**Participation and Academic and Administrative Activities of the University and Medical**

**Center:**

Co-Director, Collegiate Athlete Premedical Experience (CAPE), 1999-present

Executive Admissions Committee, Duke Medical School, 2008-present