

DUKE UNIVERSITY MEDICAL CENTER

CURRICULUM VITAE

**for
Permanent Record
and the
Appointments, Promotions and Tenure Committee**

Date Prepared: February 10, 2015

Name (complete with degrees): John Howard Sampson, M.D., Ph.D., M.H.Sc., M.B.A.

Primary academic appointment: Department of Surgery

Secondary appointments (Department): Department of Biomedical Engineering
Department of Immunology
Department of Pathology
Department of Radiation Oncology
Duke University Graduate School

Social Security number: Available upon request

Present academic rank and title: Robert H. and Gloria Wilkins Professor of Surgery
(Tenured)
Professor of Biomedical Engineering
Professor of Pathology
Professor of Immunology
Professor of Radiation Oncology

Date and rank of first Duke faculty appointment: Assistant Professor of Surgery, September 1, 1998

Medical licensure: North Carolina (9600716)
April 1, 1996

Specialty certification(s) and dates: American Board of Neurological Surgery
May 29, 2002, Re-certified 2011

Date of birth: November 15, 1966
Place: Ottawa, Ontario, Canada
Citizen of: United States of America and Canada

Education:

	<u>Institution</u>	<u>Date (Year)</u>	<u>Degree</u>
High School	John Taylor Collegiate	1984	
College	St. John's College University of Manitoba Winnipeg, Manitoba, Canada	1986	
Graduate School	University of Manitoba, Canada	1990	B.Sc. (Med), M.D.
	Duke University Durham, North Carolina	1996	Ph.D.
	Duke University Durham, North Carolina	2007	M.H.Sc.
	Fuqua School of Business Duke University Durham, North Carolina	2011	M.B.A.

Professional training and academic career:

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
University of Manitoba	Investigator in Cerebral Hydrodynamics Laboratory	1987-89
Duke University Medical Center	Intern in Surgery, Duke University Medical Center	1990-91
Duke University Medical Center	Resident in Neurosurgery	1991-98
Duke University Medical Center	Fellow in Neurological Intensive Care	1998
Duke University Medical Center	Assistant Professor of Surgery	1998
Duke University Medical Center	Assistant Professor of Pathology	1999
Duke University Medical Center	Associate Professor of Surgery	2003
Duke University Medical Center	Associate Professor of Surgery (Tenured)	2003
Duke University Medical Center	Professor of Surgery (Tenured)	2009
Duke University Medical Center	Professor of Pathology	2009
Duke University Medical Center	Professor of Immunology	2009
Duke University Medical Center	Professor of Radiation Oncology	2009
Duke University Medical Center	Robert H. and Gloria Wilkins Distinguished Professor	2009
Duke University Medical Center	Chief, Division of Neurosurgery	2014

Publications:

1. Refereed journals:

1. **Sampson, J.H.**, and Nashold, B.S., Jr.: Facial pain due to vascular lesions of the brainstem relieved by dorsal root entry zone lesions in the nucleus caudalis. **J. Neurosurg.** 77:473-475, 1992.
2. **Sampson, J.H.**, Rossitch, E., Jr., and Oakes, W.J.: Initial management of pediatric head trauma: The role of the primary care physician. **Am. Fam. Physician** 45:2621-2628, 1992.
3. **Sampson, J.H.**, Rossitch, E., Jr., Lane, K., Young, J.N., and Friedman, A.H.: Solitary eosinophilic granuloma invading the clivus of an adult. **Neurosurgery** 31:755-758, 1992.
4. Oakes, W.J., **Sampson, J.H.**, and Rossitch, E., Jr.: CT scans following loss of consciousness in children. **Am. Fam. Physician** 47:1570-1571, 1993.
5. **Sampson, J.H.**: The surgical art of Harvey Cushing. **J. Neurosurg.** 78:308-309, 1993.
6. **Sampson, J.H.**, and Cardoso, E.R.: The gravitational shunt: An alternative approach to cerebrospinal fluid shunting. **Surg. Neurol.** 40:112-118, 1994.
7. **Sampson, J.H.**, Cashman, R.E., Nashold, B.S., Jr., and Friedman, A.H.: Conus medullaris DREZ lesions for intractable pain after trauma to the conus medullaris and cauda equina. **J. Neurosurg.** 82:28-34, 1995.
8. Spiegel, D.A., **Sampson, J.H.**, Richardson, W.J., Friedman, A.H., Rossitch, E., Hardaker, W.T., Jr., and Seigler, H.F.: Metastatic melanoma to the spine: demographics, risk factors, and prognosis in 114 patients. **Spine** 20:2141-2146, 1995.
9. Gabriel, E.M., **Sampson, J.H.**, Dodd, L.G., and Turner, D.A.: Glomus jugulare tumor metastatic to the sacrum after high-dose radiation therapy. **Neurosurgery** 37:1001-1005, 1995.
10. Gabriel, E.M., **Sampson, J.H.**, and Wilkins, R.H.: Recurrence of a cerebral arteriovenous malformation after surgical excision. **J. Neurosurg.** 84:879-882, 1996.
11. **Sampson, J.H.**, Archer, G.E., Ashley, D.M., Fuchs, H.E., Hale, L.P., Dranoff, G., and Bigner, D.D.: Subcutaneous vaccination with irradiated, cytokine-producing tumor cells stimulates CD8+ cell-mediated immunity against tumors located in the "immunologically privileged" central nervous system. **Proc. Natl. Acad. Sci. U.S.A.** 93:10399-10404, 1996. PMID: PMC38396.
12. Ashley, D.M., **Sampson, J.H.**, Archer, G.E., Batra, S.K., Bigner, D.D., and Hale, L.P.: A genetically modified allogeneic cellular vaccine generates MHC class I-restricted cytotoxic responses against specific tumor-associated antigens and protects against CNS tumor challenge. **J. Neuroimmunol.** 78:34-46, 1997.
13. **Sampson, J.H.**, Ashley, D.M., Archer, G.E., Fuchs, H.E., Dranoff, G., Hale, L.P., and Bigner, D.D.: Characterization of a spontaneous murine astrocytoma and abrogation of its tumorigenicity by cytokines. **Neurosurgery** 41:1365-73, 1997.
14. Archer, G.E., **Sampson, J.H.**, and Bigner, D.D.: Viruses and oncogenes in brain tumors. **J. Neurovirology** 3 (Suppl. 1):S76-S77, 1997.

15. **Sampson, J.H.**, Carter, J.H., Jr., Friedman, A.H., and Seigler, H.F.: Demographics, prognosis, and therapy in 702 patients with brain metastases from malignant melanoma. **J. Neurosurg.** 88:11-20, 1998.
16. Ashley, D.M., **Sampson, J.H.**, Archer, G.E., Hale, L.P., and Bigner, D.D.: Local production of TGF β 1 inhibits cerebral edema, enhances TNF- α induced apoptosis and improves survival in a murine glioma model. **J. Neuroimmunol.** 86:46-52, 1998.
17. **Sampson, J.H.**: The Preuss Foundation Seminar on vaccine therapy for malignant primary brain tumors. **Neuro-oncol.** 1:33-42, 1999
18. **Sampson, J.H.**, Archer, G.E., Villavencencio, A.T., McLendon, R.E., Friedman, A.H., Bishop, R., Bigner, D.D., and Friedman, H.S.: Treatment of neoplastic meningitis with intrathecal temozolomide. **Clin. Cancer Res.** 5:1183-88, 1999.
19. Archer, G.E., **Sampson, J.H.**, Lorimer, I.A.J., McLendon, R.E., Friedman, A.H., Friedman, H.S., Pastan, I., and Bigner, D.D.: Regional treatment of epidermal growth factor receptor vIII-expressing neoplastic meningitis with a single-chain immunotoxin, MR-1. **Clin. Cancer Res.** 5:2646-52, 1999.
20. Heimberger, A.B., Crotty, L.E., Archer, G.E., McLendon, R.E., Friedman, A.H., Dranoff, G., Bigner, D.D., and **Sampson, J.H.**: Bone marrow-derived dendritic cells pulsed with tumor homogenate induce immunity against syngeneic intracerebral glioma. **J. Neuroimmunol.** 103:16-25, 1999.
21. Archer, G.E., **Sampson, J.H.**, McLendon, R.E., Fuchs, H.E., Colvin, O.M., McCulloch, W., Parikh, I., Clement, M., Bigner, D.D., and Friedman, H.S.: Intrathecal busulfan treatment of human neoplastic meningitis in athymic nude rats. **J. Neurooncol.** 44:233-41, 1999.
22. Wikstrand, C.J., Cokgor, I., **Sampson, J.H.**, Bigner, D.D.: Monoclonal antibody therapy of human gliomas: Current status and future approaches. **Cancer Metastasis Rev.** 18:451-64, 1999.
23. **Sampson, J.H.**, Crotty, L.E., Lee, S., Archer, G.E., Wikstrand, C.J., Ashley, D.M., Friedman, A.H., Friedman, H.S., and Bigner, D.D.: Unarmed, tumor-specific, monoclonal antibody effectively treats brain tumors. **Proc. Natl. Acad. Sci. U.S.A.** 97:7503-08, 2000. PMID: PMC16575.
24. Wikstrand, C.J., **Sampson, J.H.**, Bigner, D.D.: EGFRvIII: An oncogene deletion mutant cell surface receptor target expressed by multiple tumor types. **Emerg. Thera. Targets** 4:497-514, 2000.
25. Quinn, J.A., Pluda, J., Dolan M.E., Delaney, S., Kaplan, R., Rich, J.N., Friedman, A.H., Reardon, D.A., **Sampson, J.H.**, Colvin, O.M., Haglund, M.M., Pegg, A.E., Moschel, R.C., McLendon, R.E., Provenzale, J.M., Gururangan, S., Tourt-Uhlig, S., Herndon, J.E. 2nd, Bigner, D.D., Friedman, H.S.: Phase I trial of carmustine plus O6-benzylguanine for patients with nitrosourea-resistant recurrent or progressive malignant glioma. **J. Clin. Oncol.** 20:2277-83, 2002.
26. Heimberger, A.B., Archer, G.E., McLendon, R.E., Hulette, C., Friedman, A.H., Friedman, H.S., Bigner, D.D., and **Sampson, J.H.**: Temozolomide delivered by intracerebral microinfusion is safe and efficacious against malignant gliomas. **Clin. Cancer Res.** 6:4148-53, 2000.
27. Gururangan, S., Cokgor, L., Rich, J.N., Edwards, S., Affronti, M.L., Quinn, J.A., Herndon, 2nd, J.E., Provenzale, J.M., McLendon, R.E., Tourt-Uhlig, S., **Sampson, J.H.**, Stafford-Fox, V., Zaknoen, S., Early, M., Friedman, A.H., Friedman, H.S.: Phase I study of Gliadel wafers plus

- temozolomide in adults with recurrent supratentorial high-grade gliomas. **Neuro-oncol.** 3:246-50, 2001.
28. Wikstrand, C.J., Cole, V.R., Crotty, L.E., **Sampson, J.H.**, Bigner, D.D.: Generation of anti-idiotypic reagents in the EGFRvIII tumor-associated antigen system. **Cancer Immunol. Immunother.** 50: 639-52, 2002.
 29. Lal, A., Glazer, C.A., Martinson, H.M., Friedman, H.S., Archer, G.E., **Sampson, J.H.**, Riggins, G.J.: Mutant epidermal growth factor receptor up-regulates molecular effectors of tumor invasion. **Cancer Res.** 62:3335-3339, 2002.
 30. Heimberger, A.B., Archer, G.E., Crotty, L.E., McLendon, R.E., Friedman, A.H., Friedman, H.S., Bigner, D.D., and **Sampson, J.H.**: Dendritic cells pulsed with a tumor-specific peptide induce long-lasting immunity and are effective against murine intracerebral melanoma. **Neurosurgery** 50:158-166, 2002.
 31. Reardon, D.A., Akabani, G., Coleman, R.E., Friedman, A.H., Friedman, H.S., Herndon, 2nd, J.E., Cokgor, I., McLendon, R.E., Pegram, C.N., Provenzale, J.M., Quinn, J.A., Rich, J.N., Regalado, L.V., **Sampson, J.H.**, Shafman, T.D., Wikstrand, C.J., Wong, T.Z., Zhao, X.G., Zalutsky, M.R., Bigner, D.D.: Phase II trial of murine (131) I-labeled antitenascin monoclonal antibody 81C6 administered into surgically created resection cavities of patients with newly diagnosed malignant gliomas. **J. Clin. Oncol.** 20:1389-1397, 2002.
 32. Grossi, P., **Sampson, J.H.**, Asaoka, K., Fukushima, T.: The efficacy and durability of microvascular decompression for glossopharyngeal neuralgia. **Pain Newsletter.** June, 2002.
 33. Asaoka, K., Barrs, D.M., **Sampson, J.H.**, McElveen, J.T., Tucci, D.L., Fukushima, T.: Intracanalicular meningioma mimicking vestibular schwannoma. **Am. J. Neuroradiol.** 23:1493-1496, 2002.
 34. Heimberger, A.B., Learn, E.C., Archer, G.E., McLendon, R.E., Chewing, T., Tuck, F., Pracyk, J., Friedman, A.H., Friedman, H.S., Bigner, D.D., **Sampson, J.H.**: Brain tumors in mice are susceptible to blockade of epidermal growth factor receptor (EGFR) with the oral, specific, EGFR-tyrosine kinase inhibitor ZD1839 (Iressa). **Clin. Cancer Res.** 8:3496-3502, 2002.
 35. Fecci, P.E., Gromeier, M., **Sampson, J.H.**: Viruses in the treatment of brain tumors. **Neuroimaging Clin. N. Am.** 12:553-70, 2002.
 36. Fecci, P.E., **Sampson, J.H.**: Clinical immunotherapy for brain tumors. **Neuroimaging Clin. N. Am.** 12:641-64, 2002.
 37. Reardon, D.A., Akabani, G., Coleman, R.E., Friedman, A.H., Friedman, H.S., Herndon, J.E., II, Cokgor, I., McLendon, R.E., Pegram, C.N., Provenzale, J.M., Quinn, J.A., Rich, J., Regalado, L.V., **Sampson, J.H.**, Shafman, T.D., Wikstrand, C.J., Wong, T.Z., Zhao, X.-G., Zalutsky, M.R., and Bigner, D.D.: Phase II trial results of murine 131I-labeled anti-tenascin monoclonal antibody 81C6 administered into surgically created resection cavities of patients with newly diagnosed malignant gliomas. **J. Clin. Oncol.** 20:1389-1397, 2002.
 38. Mitchell, D.A., Fecci, P.E., **Sampson, J.H.**: Adoptive immunotherapy for malignant glioma. **Cancer J.** 9:157-66, 2003.
 39. Grossi, P.M., Ochiai, H., Archer, G.E., McLendon, R.E., Friedman, A.H., Friedman, H.S., Bigner, D.D., **Sampson, J.H.**: Efficacy of intracerebral microinfusion of trastuzumab in an athymic rat model of intracerebral metastatic breast cancer. **Clin. Cancer Res.** 9:5514-5520, 2003.

40. Heimberger, A., Crotty, L., Archer, G., Hess, K., Wikstrand, C., Friedman, A., Friedman, H., Bigner, D., **Sampson, J.H.**: Epidermal growth factor receptor VIII peptide vaccination is efficacious against established intracerebral tumors. **Clin. Cancer Res.** 9:4247-4254, 2003.
41. Fecci, P., Mitchell, D., Archer, G., Morse, M., Lyerly, H., Bigner, D., and **Sampson, J.H.**: The history, evolution, and clinical use of dendritic cell-based immunization strategies in the therapy of brain tumors. **J. Neurooncol.** 64:161-176, 2003.
42. Quinn, J.A., Reardon, D.A., Friedman, A.H., Rich, J.N., **Sampson, J.H.**, Provenzale, J.M., McLendon, R.E., Gururangan, Bigner, D.D., Herndon, J.E. II, Avgeropoulos, N., Finlay, J., Tourt-Uhlig, S., Affronti, M.L., Evans, B., Stafford-Fox, V., Zaknoen, S., Friedman, H.S.: Phase II trial of temozolomide in patients with progressive low grade glioma. **J. Clin. Oncol.** 21:646-51, 2003.
43. **Sampson, J.H.**, Akabani, G., Archer, G.E., Bigner, D.D., Berger, M.S., Friedman, A.H., Friedman, H.S., Herndon, 2nd, J.E., Kunwar, S., Marcus, S., McLendon, R.E., Paolino, A., Penne, K., Provenzale, J., Quinn, J., Reardon, D.A., Rich, J., Stenzel, T., Tourt-Uhlig, S., Wikstrand, C., Wong, T., Williams, R., Yuan, F., Zalutsky, M.R., Pastan, I.: Progress report of a phase I study of the intracerebral microinfusion of a recombinant chimeric protein composed of transforming growth factor (TGF)- β and a mutated form of the pseudomonas exotoxin termed PE-38 (TP-38) for the treatment of malignant brain tumors. **J. Neurooncol.** 65:27-35, 2003.
44. Quinn, J., Reardon, D., Friedman, A., Rich, J., **Sampson, J.H.**, Vredenburgh, J., Gururangan, S., Provenzale, J., Walker, A., Schweitzer, H., Bigner, D., Tourt-Uhlig, S., Herndon, J., Affronti, M., Jackson, S., Allen, D., Ziegler, K., Bohlin, C., Lentz, C., Friedman, H. Phase I trial of irinotecan plus BCNU in patients with progressive or recurrent malignant glioma. **Neuro-oncol.** 6:145-153, 2004.
45. Ochiai, H., Moore, S., Archer, G., Okamura, T., Chewning, T., Marks, J., **Sampson, J.H.**, Gromeier, M.: Treatment of intracerebral neoplasia and neoplastic meningitis with regional delivery of oncolytic recombinant poliovirus. **Clin. Cancer Res.** 10:4831-4838, 2004.
46. Reardon, D., Quinn, J., Rich, J., Gururangan, S., Vredenburgh J., **Sampson, J.H.**, Provenzale, J., Walker, A., Badruddoja, M., Tourt-Uhlig, S., Herndon, J., Dowell, J., Affronti, M., Jackson, S., Allen, D., Ziegler, K., Silverman, S., Bohlin, C., Friedman, A., Bigner, D., Friedman, H.: Phase 2 trial of BCNU plus irinotecan in adults with malignant glioma. **Neuro-oncol.** 6:134-144, 2004.
47. Rich, J.N., Reardon, D.A., Peery, T., Dowell, J.M., Quinn, J.A., Penne, K.L., Wikstrand, C.J., Van Duyn, L.B., McLendon, R.E., Kao, J.C., Stenzel, T.T., Ahmed Rasheed, B.A., Tourt-Uhlig, S.E., Herndon, J.E., 2nd, Vredenburgh, J.J., **Sampson, J.H.**, Friedman, A.H., Bigner, D.D., Friedman, H.S.: Phase II trial of gefitinib in recurrent glioblastoma. **J. Clin. Oncol.** 22:133-142, 2004.
48. Morse, M.A., Lyerly, H.K., Clay, T.M., Abdel-Wahab, O., Chui, S.Y., Garst, J., Gollob, J., Grossi, P.M., Kalady, M., Mosca, P.J., Onaitis, M., **Sampson, J.H.**, Seigler, H.F., Toloza, E.M., Tyler, D., Vieweg, J., Yang, Y.: Immunotherapy of surgical malignancies. **Curr. Probl. Surg.** 41:99-105, 2004.
49. Learn, C.A., Hartzell, T.L., Wikstrand, C.J., Archer, G.E., Rich, J.N., Friedman, A.H., Friedman, H.S., Bigner, D.D., **Sampson, J.H.**: Resistance to tyrosine kinase inhibition by mutant epidermal growth factor receptor variant III contributes to the neoplastic phenotype of glioblastoma multiforme. **Clin. Cancer Res.** 10:3216-3224, 2004.

50. Merrill, M.K., Bernhard, G., **Sampson, J.H.**, Wikstrand, C.J., Bigner, D.D., Gromeier, M.: Poliovirus receptor CD155-targeted oncolysis of glioma. **Neuro-oncol.** 6:208-217, 2004.
51. **Sampson, J.H.**, Grossi, P., Asaoka, K., Fukushima, T.: Microvascular decompression for glossopharyngeal neuralgia: long-term effectiveness and complication avoidance. **Neurosurgery** 54: 884-890, 2004.
52. **Sampson, J.H.**, Reardon, D., Friedman, A., Friedman, H., Coleman, R., McLendon, R., Pastan, I., Bigner, D.: Sustained radiographic and clinical response in patient with bifrontal recurrent glioblastoma multiforme with intracerebral infusion of the recombinant targeted toxin TP-38: case study. **Neuro-oncol.** 7:90-96, 2005.
53. Little, K.M., Friedman, A.H., **Sampson, J.H.**, Wanibuchi, M., Fukushima, T.: Surgical management of petroclival meningiomas: defining resection goals based on risk of neurological morbidity and tumor recurrence rates in 137 patients. **Neurosurgery** 56:546-549, 2005.
54. Quinn, J., Desjardins, A., Brem, H., Weingart, J., Dolan, M., Vredenburgh, J., Rich, J., Friedman, A., Reardon, D., **Sampson, J.H.**, Pegg, A., Moschel, R., McLendon, R., Provenzale, J., Gururangan, S., Tourt-Uhlig, S., Herndon, J., Bigner, D., Friedman, H. Phase I trial of temozolomide plus O6-benzylguanine for patients with recurrent or progressive malignant glioma. **J. Clin. Oncol.** 23:7178-87, 2005.
55. Reardon, D., Egorin, M. Quinn, J., Rich, J., Gururangan, S., Vredenburgh, J., Desjardins, A., Sathornsumetee, S., Provenzale, J., Herndon, J., Dowell, J., Badruddoja, M., McLendon, R., Lagattuta, T., Kicielinski, K., Dresemann, G., **Sampson, J.H.**, Friedman, A., Salvado, A., Friedman, H. Phase II study of imatinib mesylate plus hydroxyurea in adults with recurrent glioblastoma multiforme. **J. Clin. Oncol.** 23:9359-68, 2005.
56. Petrella, J., **Sampson, J.H.**: Preoperative functional MR imaging localization of language and motor areas: effect on therapeutic decision making in patients with potentially resectable brain tumors. **Radiology** 240:793-802, 2006.
57. Reardon, D., Zalutsky, M., Akabani, G., Coleman, R., Friedman, H., Friedman, H., Herndon, J., McLendon, R., Pegram, C., Provenzale, J., Quinn, J., Rich, J., Vredenburgh, J., Desjardins, A., **Sampson, J.H.**, Gururangan, S., Wong, T., Badruddoja, M., Zhao, X., Dowell, J., Bigner, D.: Novel human IgG2b/murine chimeric antitenascin monoclonal antibody construct radiolabeled with ¹³¹I and administered into the surgically created resection cavity of patients with malignant glioma: phase I trial results. **J. Nucl. Med.** 47:912-918, 2006.
58. Raghavan, R., Brady, M., Rodriguez-Ponce, M., Hartlep, A., Pedain, C., **Sampson, J.H.**: Convection-enhanced delivery of therapeutics for brain disease, and its optimization. **Neurosurg. Focus** 20:E12, 2006.
59. Kunwar, S., Chang, S., Prados, M., Berger, M., **Sampson, J.H.**, Croteau, D., Sherman, J., Grahn, A., Shu, V., Dul, J., Husain, S., Joshi, B., Pedain, C., Puri, R: Safety of intraparenchymal convection-enhanced delivery of cintredekin besudotox in early-phase studies. **Neurosurg. Focus** 20:E15, 2006.
60. Reardon, D., Quinn, J., Vredenburgh, J., Gururangan, S., Friedman, A., Desjardins, A., Sathornsumetee, S., Herndon, J., Dowell, J., McLendon, R., Provenzale, J., **Sampson, J.H.**, Smith, R., Swaisland, A., Ochs, J., Lyons, P., Tourt-Uhlig, S., Bigner, D., Friedman, H., Rich, J.: Phase I trial of gefitinib plus sirolimus in adults with recurrent malignant gliomas. **Clin. Cancer Res.** 12:860-868, 2006.

61. Fecci, P., Sweeney, A., Grossi, P., Nair, S., Learn, C., Mitchell, D., Cui, X., Cummings, T., Bigner, D., Gilboa, E., **Sampson, J.H.**: Systemic anti-CD25 monoclonal antibody administration safely enhances immunity in murine glioma without eliminating regulatory T cells. **Clin. Cancer Res.** 12:4294-305, 2006.
62. Fecci, P., Mitchell, D., Whitesides, J., Xie, W., Friedman, A., Archer, G., Herndon, J., Bigner, D., Dranoff G., **Sampson, J.H.**: Increased regulatory T-cell fraction amidst a diminished CD4 compartment explains cellular immune defects in patients with malignant glioma. **Cancer Res.** 66:3294-3302, 2006.
63. Ochiai, H., Campbell, S., Archer, G., Chewning, T., Dragunsky, E., Ivanov, A., Gromeier M., **Sampson, J.H.**: Targeted therapy for glioblastoma multiforme neoplastic meningitis with intrathecal delivery of an oncolytic recombinant poliovirus. **Clin. Cancer Res.** 12:1349-1354, 2006.
64. **Sampson, J.H.**, Akabani, G., Friedman, A., Bigner, D., Kunwar, S., Berger, M., Bankiewicz, K.: Comparison of intratumoral bolus injection and convection-enhanced delivery of radiolabeled anti-tenascin monoclonal antibodies. **Neurosurg. Focus** 20:E14, 2006.
65. Ochiai, H., Pernell, C.T., Archer, G.E., Chewning, T.A., McLendon, R.E., Friedman, H.S., **Sampson, J.H.**: Treatment of neoplastic meningitis with intrathecal 9-Nitro-camptothecin. **Neurol. Med. Chir.** 46:486-491, 2006.
66. Learn, C., Fecci, P., Schmittling, R., Xie, W., Karikari, I., Mitchell, D., Archer, G., Wei, Z., Dressman, H., **Sampson, J.H.**: Profiling of CD4+, CD8+ and CD4+CD25+CD45R0+FoxP3+ T-cells in patients with malignant glioma reveals differential expression of the immunologic transcriptome compared to T-cells from healthy volunteers. **Clin. Cancer Res.** 12:7306-15, 2006.
67. Reardon, D., Quinn, J., Akabani, G., Coleman, R., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Pegram, C., Bohlin, C., Provenzale, J., Dowell, J., Rich, J., Vredenburgh, J., Desjardins, A., **Sampson, J.H.**, Gururangan, S., Wong, T., Badruddoja, M., Zhao, X., Bigner, D., Zalutsky, M.: Novel human IgG2b/Murine chimeric antitenascin monoclonal antibody construct radiolabeled with 131I and administered into the surgically created resection cavity of patients with malignant glioma: phase I trial results. **J. Nucl. Med.** 47:912-918, 2006.
68. **Sampson, J.H.**, Raghavan, R., Brady, M., Provenzale, J., Herndon, II, J., Croteau, D., Friedman, A., Reardon, D., Coleman, R.E., Wong, T., Bigner, D., Pastan, I., Rodriguez-Ponce, M., Tanner, P., Puri, R., Pedain, C.: Clinical utility of a patient-specific algorithm for simulating intracerebral drug infusions. **Neuro-oncol.** 9:343-53, 2007. PMID: PMC1907410.
69. **Sampson, J.H.**, Raghavan, R., Provenzale, J., Croteau, D., Reardon, D., Coleman, R.E., Rodriguez-Ponce, M., Pastan, I., Puri, R., Pedain, C.: Induction of hyperintense signal on T2-weighted MR images correlates with infusion distribution from intracerebral convection-enhanced delivery of a tumor-targeted cytotoxin. **Am. J. Roentgenol.** 188:703-9, 2007.
70. Soper, J., Spillman, M., **Sampson, J.H.**, Kirkpatrick, J., Wolfe, J., Clarke-Pearson, D.: Multidisciplinary therapy for high-risk gestational trophoblastic neoplasia patients with brain metastases. **Gynecol. Oncol.** 104:691-4, 2007.
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2. In press publications

1. Swartz, A.M., Batich, K.A., Fecci, P.E., **Sampson, J.H.**: S.I. Brain Tumor Immunotherapy. **J. Neurooncol.**
2. Mitchell, D.A., Batich, K.A., Gunn, M.D., Nair, S.K., Sanchez-Perez, L., Congdon, K.L., Reap, E.A., Archer, G.E., Desjardins, A., Friedman, A.H., Friedman, H.S., Herndon, J.E. 2nd, Coan, A., McLendon, R.E., Reardon, D.A., Vredenburgh, J.J., Bigner, D.D., **Sampson, J.H.**: Tetanus toxoid and CCL3 improve DC vaccines in mice and glioblastoma patients. **Nature.**
3. Archer, G.E., Choi, B.D., Bigner, D.D., Healy, P., Reap, E., **Sampson, J.H.**, Saraswathula, A., Sayour, E.J., Sanchez-Perez, L., Schmittling, R.J.: Brief Report: B_{reg} compartment remains constant in glioblastoma patients receiving immunotherapy. **Cancer Immunology, Immunotherapy.**
4. Suryadevara, C.M., Verla, T., Sanchez-Perez, L., Reap, E., Choi, B.D., Fecci, P.E., **Sampson, J.H.**: Immunotherapy for malignant glioma. **Surgical Neurology International.**
5. Suryadevara, C., Gedeon, P.C., Sanchez-Perez, L., Verla, T., Alvarez-Breckenridge, C., Choi, B.D., Fecci, P.E., **Sampson, J.H.**: Are BiTEs the ‘missing link’ in cancer therapy. **OncImmunity.**

3. Submitted publications

1. Kwatra, M.M., Brown, K.E., Hoadley, K.A., Chi, J., Healy, P., Herndon, J.E., II, Keir, S.T., Ahmad, R.B., Perou, C.M., **Sampson, J.H.**, Bigner, D.D.: Oncogenic NK1RΔ311 in adult glioblastoma: subtype-specific expression and inhibition of stem cell proliferation by neurokinin-1 receptor antagonists. **Neurooncol.**, Submitted, 2013.
2. Schuster, J., Lai, R.K., Reicht, L.D., Reardon, D.A., Paleologos, N., Groves, M., Mrugala, M., Jensen, R., Baehring, J., Sloan, A., Davis, T., Archer, G.E., Cruickshank, S., Green, J., Heimberger, A., **Sampson, J.H.**: A Phase II, Multicenter Trial of Rindopepimut (CDX-110) in Newly Diagnosed Glioblastoma. **J. Clin. Oncol.**, Submitted, 2013.
3. Mowery, Y., Kim, G., Wright, A., Desjardins, A., Peters, K., Vlahovic, G., **Sampson, J.**, Kirkpatrick, J.: Outcomes for patients with intracranial meningiomas treated with radiotherapy and bevacizumab: a single-institution retrospective analysis. **ASTRO.** Submitted, 2015

4. Major invited lectures:

1. **Sampson, J.H.**, and Cardoso, E.R.: New adjustable anti-siphon valve for pressure controlled cerebrospinal fluid shunting. 23rd Annual Meeting, Canadian Congress of Neurological Sciences, Quebec City, Quebec, 1988.
2. **Sampson, J.H.**, Friedman, A.H., and Seigler, H.F.: Central nervous system melanoma. 60th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 12-16, 1992. (*Plenary Session*)
3. **Sampson, J.H.**, Spiegel, D.A., Friedman, A.H., Richardson, W.J., Rossitch, E., and Seigler, H.F.: Epidural spinal metastases from malignant melanoma: demographics, prognosis, and

treatment. 44th Annual Meeting, Southern Neurosurgical Society, Williamsburg, VA, March 31-April 4, 1993.

4. **Sampson, J.H.**, Cashman, R.E., and Nashold, B.S., Jr.: Radiofrequency lesions in the dorsal root zone for treatment of persistent pain secondary to traumatic injuries of the terminal spinal cord. 28th Annual Meeting, Canadian Congress of Neurological Sciences, Toronto, Ontario, Canada, June 16-19, 1993.
5. **Sampson, J.H.**, Carter, J.H., Jr., Friedman, A.H., and Seigler, H.F.: Epidural spinal metastases from malignant melanoma: Demographics, prognosis, and treatment. 28th Annual Meeting, Canadian Congress of Neurological Sciences, Toronto, Ontario, Canada, June 16-19, 1993.
6. **Sampson, J.H.**, Carter, J.H., Jr., Friedman, A.H., and Seigler, H.F.: Central nervous system melanoma in children. 28th Annual Meeting, Canadian Congress of Neurological Sciences, Toronto, Ontario, Canada, June 16-19, 1993.
7. **Sampson, J.H.**, Friedman, A.H., and Seigler, H.F.: Malignant melanoma of the scalp. 28th Annual Meeting, Canadian Congress of Neurological Sciences, Toronto, Ontario, Canada, June 16-19, 1993.
8. **Sampson, J.H.**, Cashman, R.E., and Nashold, B.S., Jr.: DREZ lesions for intractable pain caused by trauma to the terminal spine. 62nd Annual Meeting, American Association of Neurological Surgeons, San Diego, CA, April 9-14, 1994. (*Plenary Session*)
9. **Sampson, J.H.**, Spiegel, D.A., Rossitch, E., Richardson, W., Friedman, A.H., and Seigler, H.F.: Metastatic melanoma of the spine: demographics, risk factors, treatment results, and prognosis. 62nd Annual Meeting, American Association of Neurological Surgeons, San Diego, CA, April 9-14, 1994.
10. **Sampson, J.H.**, Cashman, R.E., and Nashold, B.S., Jr.: Conus medullaris DREZ lesions for intractable pain after trauma to the conus medullaris and cauda equina. 45th Annual Meeting, Southern Neurosurgical Society, White Sulphur Springs, WV, April 28-May 1, 1994. (*Resident Award*)
11. **Sampson, J.H.**, Vervaert, C., Friedman, A.H., and Seigler, H.F.: Genetic immunotherapy of central nervous system tumors by *in situ* transduction with the γ -interferon gene. 45th Annual Meeting, Southern Neurosurgical Society, White Sulphur Springs, WV, April 28-May 1, 1994.
12. Spiegel, D.A., **Sampson, J.H.**, Richardson, W.J., Friedman, A.H., Rossitch, E., Jr., Hardaker, W.T., Jr., and Seigler, H.F.: Metastatic melanoma to the spine: demographics, risk factors, and prognosis in 114 patients. 9th Annual Meeting, North American Spine Society, Minneapolis, MN, October 19-22, 1994.
13. Spiegel, D.A., **Sampson, J.H.**, Richardson, W.J., Friedman, A.H., Rossitch, E., Hardaker, W.T., Jr., and Seigler, H.F.: Metastatic melanoma to the spine: demographics, risk factors, and prognosis in 114 patients. 62nd Annual Meeting, American Academy of Orthopedic Surgeons, Orlando, FL, February 16-21, 1995.
14. **Sampson, J.H.**, Friedman, A.H., and Seigler, A.F.: Demographics, treatment, and prognosis of 76 patients with "primary" intracerebral melanoma. 46th Annual Meeting, Southern Neurosurgical Society, Dorado, Puerto Rico, April 6-9, 1995.
15. **Sampson, J.H.**, Friedman, A.H., and Seigler, A.F.: Demographics, treatment, and prognosis of 76 patients with "primary" intracerebral melanoma. 63rd Annual Meeting, American Association of Neurological Surgeons, Orlando, FL, April 22-27, 1995.

16. **Sampson, J.H.**, Archer, G.E., Kurpad, S.N., Castleberry, K.A., Fuchs, H.E., Gilboa, E., Dranoff, G., and Bigner, D.D.: Cytokine producing tumor cells demonstrate reduced intracerebral tumorigenicity and reduce the growth of intracerebral tumors when used as subcutaneous vaccinations. 45th Annual Meeting, Congress of Neurological Surgeons, San Francisco, CA, October 14-18, 1995.
17. **Sampson, J.H.**, Archer, G.E., Jr., Kurpad, S.N., Castleberry, K.A., Fuchs, H.E., Gilboa, E., Dranoff, G., and Bigner, D.D.: Cytokine producing tumor cells demonstrate reduced intracerebral tumorigenicity and reduce the growth of intracerebral tumors when used as subcutaneous vaccinations. 11th International Conference on Brain Tumor Research and Therapy, Napa, CA, October 31 – November 3, 1995.
18. **Sampson, J.H.**, Archer, G., McLaughlin, C., Ashley, D., Fuchs, H., Hale, L., Gilboa, E., Dranoff, G., and Bigner, D.D.: Cytokine producing tumor cells demonstrate reduced intracerebral tumorigenicity and reduce the growth of intracerebral tumors when used as subcutaneous vaccinations. 47th Annual Meeting, Southern Neurosurgical Society, Miami, FL, March 28-31, 1996. (*Resident Award*)
19. Archer, G.E., **Sampson, J.H.**, McLendon, R.E., Fuchs, H.E., Colvin, O.M., McCulloch, W., Parikh, I., Clement, M., Bigner, D.D., and Friedman, H.S.: Treatment of neoplastic meningitis with intrathecal Spartaject-busulfan. 87th Annual Meeting, American Association for Cancer Research, Washington, DC, April 20-24, 1996.
20. **Sampson, J.H.**, Archer, G.E., Ashley, D.M., Hale, L.P., Gilboa, E., Dranoff, G., and Bigner, D.D.: Vaccination with irradiated tumor cells producing GM-CSF or IL-3 reduces growth of established brain tumor and increases survival. 87th Annual Meeting, Annual Meeting, American Association for Cancer Research, Washington, DC, April 20-24, 1996. (*First Annual Gerald B. Grindley Memorial Travel Award*)
21. Ashley, D.M., **Sampson, J.H.**, Archer, G.E., Batra, S.K., Bigner, D.D., and Hale, L.P.: A genetically modified allogeneic cellular vaccine generates MHC class I-restricted cytotoxic responses against specific tumor-associated antigens and protects against CNS tumor challenge. 7th International Symposium, Pediatric Neuro-Oncology, Washington, DC, May 16-18, 1996.
22. Ashley, D.M., **Sampson, J.H.**, Archer, G.E., Batra, S.K., Bigner, D.D., and Hale, L.P.: Protection against CNS tumor challenge by a genetically modified allogeneic cellular vaccine which generates MHC class I-restricted cytotoxic responses against specific tumor-associated antigens. 1st Meeting, Society for Neuro-Oncology, Santa Fe, NM, November 8-10, 1996.
23. **Sampson, J.H.**, Ashley, D.M., Archer, G.E., Fuchs, H.E., Hale, L.P., and Bigner, D.D.: Cytokines abrogate tumorigenicity of TGF- β producing spontaneous murine astrocytoma. 1st Meeting, Society of Neuro-Oncology, Santa Fe, NM, November 8-10, 1996.
24. **Sampson, J.H.** and Jaeckle, K.: (**Moderators**) Session III. Opportunities in Immunology. 1st Annual Meeting, Society of Neuro-Oncology, Santa Fe, NM, November 8-10, 1996.
25. **Sampson, J.H.**: Cell-mediated immunotherapy of brain tumors. Doctoral Thesis Defense, Duke University, December 5, 1996.
26. **Sampson, J.H.**: Cell-mediated immunotherapy of brain tumors. Immune Response Corporation, Carlsbad, CA, December 15, 1996.
27. **Sampson, J.H.**: Cytokine-mediated immunotherapy of brain tumors. Neuroscience Rounds, University of Manitoba, Health Sciences Center, Winnipeg, Canada, December 20, 1996.

28. Archer, G.E., Reist, C.J., Lorimer, I.A.J., **Sampson, J.H.**, Chu, C.T., Wikstrand, C.J., Zalutsky, M.R., Pastan, I.H., and Bigner, D.D.: Deletion mutant of the epidermal growth factor receptor as a target for immunotherapy. Proceedings of the U.S. - Japan Workshop on Cell Membrane Targets for Cancer Therapy, Maui, HI, February 3-5, 1997.
29. Ashley, D.M., **Sampson, J.H.**, Archer, G.E., Batra, S.K., Dranoff, G., Hale, L.P., and Bigner, D.D.: Treatment of CNS tumors with genetically modified cellular vaccines. The Borden Conference on Gene Therapy, Thredbo, New South Wales, February 5-7, 1997.
30. **Sampson, J.H.**: Cytokine-mediated therapy of brain tumors. Tumor Biology Seminar Series, Georgetown University, Washington, DC, February 21, 1997.
31. **Sampson, J.H.**, Ashley, D.M., Archer, G.E., Fuchs, H.E., Batra, S.K., Hale, L.P., and Bigner, D.D.: Successful treatment of established intracerebral tumors by vaccination with glioma-antigen specific, genetically-modified allogeneic cells in a murine model. 65th Annual Meeting, American Association of Neurological Surgeons, Denver, CO, April 12-17, 1997. (*Selected as Feature Article for meeting*)
32. **Sampson, J.H.**, Ashley, D.M., Archer, G.E., Fuchs, H.E., Hale, L.P., and Bigner, D.D.: Cytokines abrogate tumorigenicity of TGF- β producing spontaneous murine astrocytoma. 88th Annual Meeting, American Association for Cancer Research, San Diego, CA, April 12-16, 1997.
33. Archer, G.E., **Sampson, J.H.**, Ashley, D.M., Fuchs, H.E., Hale, L.P., and Bigner, D.D.: IL-12 cytokine treatment of an established intracranial mouse astrocytoma increases survival and induces long lasting immunity. 88th Annual Meeting, American Association for Cancer Research, San Diego, CA, April 12-16, 1997.
34. Ashley, D.M., **Sampson, J.H.**, Archer, G.E., Bigner, D.D., and Hale, L.P.: Patterns of lymphocyte trafficking after cytokine modified tumor vaccines differ for central nervous system vs. Subcutaneous tumors. 88th Annual Meeting, American Association for Cancer Research, San Diego, CA, April 12-16, 1997.
35. Archer, G.E., **Sampson, J.H.**, and Bigner, D.D.: Viruses and oncogenes in brain tumors. 1st International Symposium of NeuroVirology, Philadelphia, PA, May 5-7, 1997.
36. Archer, G.E., Fuchs, H.E., **Sampson, J.H.**, Wikstrand, C.J., Lorimer, I.A.J., Pastan, I., and Bigner, D.D.: *In vivo* efficacy of immunotoxin (MR1) targeting an EGFR mutation. 12th International Conference on Brain Tumor Research and Therapy, Oxford, United Kingdom, September 20-23, 1997.
37. **Sampson, J.H.**, Archer, G.E., Fuchs, H.E., Ashley, D.M., Hale, L.P., and Bigner, D.D.: Efficacy of IL-12 for malignant gliomas. 12th International Conference on Brain Tumor Research and Therapy, Oxford, United Kingdom, September 20-23, 1997.
38. **Sampson, J.H.**, Archer, G.E., Ashley, D.M., Fuchs, H.E., and Bigner, D.D.: Late systemic administration of IL-12 increases median survival and cures well-established murine astrocytomas through a novel mechanism. 47th Annual Meeting, Congress of Neurological Surgeons, New Orleans, LA, September 27-October 2, 1997.
39. Archer, G.E., **Sampson, J.H.**, Ashley, D.M., Fuchs, H.E., Hale, L.P., and Bigner, D.D.: Treatment of well-established intracranial mouse astrocytoma with intraperitoneal IL-12 increases median survival, produces long term survivors and induces long lasting immunity. 2nd Annual Meeting, Society for Neuro-Oncology, Charlottesville, VA, October 31-November 2, 1997.

40. **Sampson, J.H.:** Host factors: Immunology of the CNS. A systems approach to glial neoplasms. New York University Symposium on Novel Treatments for Brain Tumors, New York, NY, November 13-14, 1997.
41. **Sampson, J.H.,** Cokgor, I., Akabani, G., Friedman, A., Coleman, E., Friedman, H., McLendon, R., Zhou, X., Bigner, S., Pegram, C., Wikstrand, C., Vick, N., Paleologos, N., Zalutsky, M., and Bigner, D.: Radiolabeled anti-tenascin monoclonal antibody in recurrent malignant brain tumors. 89th Annual Meeting, American Association for Cancer Research, New Orleans, LA, March 28-April 1, 1998.
42. Archer, G.E., Fuchs, H.E., **Sampson, J.H.,** Wikstrand, C.J., Lorimer, I., Pastan, I., and Bigner, D.D.: MR1scFvPE38KDEL (MR1), a single chain immunotoxin for the treatment of tumors expressing EGFRvIII a deletion mutation of the EGFR. 89th Annual Meeting, American Association for Cancer Research, New Orleans, LA, March 28-April 1, 1998.
43. **Sampson, J.H.,** Friedman, A.H., Fuchs, H.E., and Friedman, H. S.: Results of phase I trials of ¹³¹I-labeled anti-tenascin monoclonal antibody injected via surgically created resection cavities in patients with recurrent malignant brain tumors. 66th Annual Meeting, American Association of Neurological Surgeons, Philadelphia, PA, April 25-30, 1998.
44. **Sampson, J.H.,** Friedman, A.H., Fuchs, H.E., and Friedman, H. S.: Iodine-131-labeled anti-tenascin monoclonal antibody treatment of patients with recurrent malignant gliomas: Phase I trial results. 3rd Biennial AANS / CNS Section on Tumors Satellite Symposium, Philadelphia, PA, April 30-May 1, 1998.
45. **Sampson, J.H.,** Friedman, A.H., Friedman, H.S., Coleman, R.E., McLendon, R.E., Zalutsky, M.R., and Bigner, D.D.: Phase I trial of radiolabeled anti-tenascin monoclonal antibodies in patients with recurrent malignant gliomas. 49th Annual Meeting, Southern Neurosurgical Society, Hot Springs, VA, June 3-7, 1998.
46. **Sampson, J.H.,** Crotty, L.E., Archer, G.E., and Bigner, D.D.: A peptide vaccine specific for the EGFRvIII generates antitumor immunity through a humoral pathway. Cancer Research Institute Cancer Vaccines Week, New York, NY, October 5-9, 1998.
47. Archer, G.E., **Sampson, J.H.,** Lorimer, I.A.J., Wikstrand, C.J., Friedman, A.H., Pastan, I., and Bigner, D.D.: Compartmental treatment of neoplastic meningitis with an immunotoxin specific for an EGFR deletion mutation. 3rd Annual Meeting, Society for Neuro-Oncology, San Francisco, CA, November 12-15, 1998.
48. Lee, S., Crotty, L., Archer, G.E., **Sampson, J.H.,** Ashley, D.E., Friedman, A.H., and Bigner, D.D.: Unarmed anti-EGFRvIII monoclonal antibody effectively treats EGFRvIII expressing intracranial and subcutaneous tumors. 3rd Annual Meeting, Society for Neuro-Oncology, San Francisco, CA, November 12-15, 1998.
49. **Sampson, J.H.,** Archer, G.E., Villavicencio, A.T., Friedman, A.H., Bishop, W.R., Catino, J.J., Bigner, D.D., and Friedman, H.S.: Microcrystalline temozolomide for treatment of neoplastic meningitis. 3rd Annual Meeting, Society for Neuro-Oncology, San Francisco, CA, November 12-15, 1998.
50. **Sampson, J.H.,** Friedman, A.H., Coleman, R.E., Akabani, G., Friedman, H.S., Vick, N.A., Paleologos, N., Cokgor, I., Zalutsky, M.R., and Bigner, D.D.: Results of dose finding study for compartmental delivery of radiolabeled anti-tenascin monoclonal antibody 81C6 in Patients with recurrent malignant gliomas with prior whole brain radiation. 3rd Annual Meeting, Society for Neuro-Oncology, San Francisco, CA, November 12-15, 1998.

51. Archer, G.E., **Sampson, J.H.**, Villavicencio, A.T., McLendon, R.E., Friedman, A.H., Bishop, W.R., Bigner, D.D., and Friedman, H.S.: Regional delivery of microcrystalline temozolomide for the treatment of neoplastic meningitis. 90th Annual Meeting, American Association for Cancer Research, Philadelphia, PA, April 10-14, 1999.
52. Heimberger, A., Crotty, L.E., Archer, G.E., Friedman, A.H., Bigner, D.D., and **Sampson, J.H.**: Bone marrow-generated dendritic cells induced antitumor immunity against gliomas. 90th Annual Meeting, American Association for Cancer Research, Philadelphia, PA, April 10-14, 1999.
53. **Sampson, J.H.**, Cokgor, I., Akabani, G., Friedman, A.H., Coleman, R.E., Zalutsky, M.R., McLendon, R.E., Bigner, S.H., Xiao-Guang, A., Pegram, C.N., Wikstrand, C.J., Herndon, J.E., III, Provenzale, J.M., Friedman, H.S., and Bigner, D.D.: Phase I/II trial of newly diagnosed brain tumor patients treated with ¹³¹I-anti-tenascin MAb 81C6 *via* surgically created resection cavities. 90th Annual Meeting, American Association for Cancer Research, Philadelphia, PA, April 10-14, 1999.
54. Friedman, H., Cokgor, I., Kerby, T., Lawless, A., Rich, E., Stewart, E., Rasheed, K., Affronti, M., Tourt-Uhlig, S., Provenzale, J., McLendon, R., Colvin, O., Bigner, D., Malczyn, J., Friedman, A., and Miller, L., **Sampson, J.H.**: Phase I trial of CPT-11 plus BCNU in malignant glioma. 35th Annual Meeting, American Society of Clinical Oncology, Atlanta, GA, May 15-18, 1999.
55. Friedman, A., Cokgor, I., Kerby, T., Edwards, S., Rich, J., Stewart, E., McLendon, R., Affronti, M., Rasheed, K., Provenzale, J., Colvin, O., Bigner, D., Zaknoen, S., Fraass, U., Dugan, M., **Sampson J.H.**, and Friedman, H.: Phase II treatment of anaplastic oligodendroglioma and low grade glioma with Temodal[®]. 35th Annual Meeting, American Society of Clinical Oncology, Atlanta, GA, May 15-18, 1999.
56. Heimberger, A., Crotty, L.E., Archer, G.E., McLendon, R.E., Friedman, A.H., Dranoff, G., Bigner, D.D., and **Sampson, J.H.**: Bone marrow-generated dendritic cells pulsed with tumor extract induce immunity against syngeneic intracerebral gliomas. 50th Annual Meeting, Southern Neurosurgical Society, Memphis, TN, May 19-22, 1999. (*Resident Award - Supervisor*)
57. **Sampson, J.H.**, Crotty, L.E., Lee, S., Archer, G.E., Wikstrand, C.J., Ashley, D.M., Friedman, A.H., Friedman, H.S., and Bigner, D.D.: Unarmed anti-EGFRvIII monoclonal antibody effectively treats EGFRvIII expressing intracranial tumors through antibody dependent macrophage cytotoxicity. 13th International Conference on Brain Tumor Research and Therapy, Sapporo, Japan, October 4-6, 1999.
58. **Sampson, J.H.**, Crotty, L.E., Archer, G.E., Friedman, A.H., Friedman, H.S., and Bigner, D.D.: An EGFRvIII specific peptide vaccine generates antitumor immunity through a humoral pathway. 13th International Conference on Brain Tumor Research and Therapy, Sapporo, Japan, October 4-6, 1999.
59. Archer, G.E., Heimberger, A.B., Villavicencio, A.T., Friedman, A.H., Friedman, H.S., and Bigner, D.D., **Sampson, J.H.**: Generation of peripheral blood-derived dendritic cells from the immunosuppressive environment of patients with malignant gliomas. 13th International Conference on Brain Tumor Research and Therapy, Sapporo, Japan, October 4-6, 1999.
60. Archer, G.E., **Sampson, J.H.**, Lorimer, I.A.J., McLendon, R.E., Kuan, C.-T., Friedman, A.H., Friedman, H.S., Pastan, I.H., and Bigner, D.D.: EGFR deletion mutant specific immunotoxin MR1scFvPE38KDEL (MR-1) for regional therapy of neoplastic meningitis. 13th International Conference on Brain Tumor Research and Therapy, Sapporo, Japan, October 4-6, 1999.

61. Wikstrand, C.J., Cole, V.R., Crotty, L.E., **Sampson, J.H.**, Bigner, D.D. Anti-idiotype monoclonal antibody (MAB) vaccine approach to the therapy of variant epidermal growth factor receptor (EGFRvIII)-expressing tumors. 13th International Conference on Brain Tumor Research and Therapy, Sapporo, Japan, October 4-6, 1999.
62. Heimberger, A.B., Archer, G.E., Friedman, H.S., Bishop, W.R., Friedman, A.H., Bigner, D.D., and **Sampson, J.H.**: Intratumoral temozolomide via bulk flow microinfusion is efficacious against intracranial glioma. 13th International Conference on Brain Tumor Research and Therapy, Sapporo, Japan, October 4-6, 1999.
63. Heimberger, A.B., Archer, G.E., Friedman, H.S., Bishop, R.W., Friedman, A.H., Bigner, D.D., and **Sampson, J.H.**: Intratumoral bulk flow microinfusion of temozolomide is efficacious against intracranial glioma. 4th Annual Meeting, Society for Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999
64. Villavicencio, A.T., Archer, G.E., Friedman, A.H., Bishop, W.R., Bigner, D.D., Friedman, H.S., and **Sampson, J.H.**: Treatment of neoplastic meningitis with microcrystalline temozolomide. 49th Annual Meeting, Congress of Neurological Surgeons, Boston, MA, October 30-November 4, 1999.
65. Heimberger, A., Archer, G.E., Villavencencio, A.T., Friedman, A.H., Bigner, D.D., and **Sampson, J.H.**: Functionally active dendritic cells (DCs) are generated from patients with malignant glioma. 49th Annual Meeting, Congress of Neurological Surgeons, Boston, MA, October 30-November 4, 1999.
66. Archer, G.E., Heimberger, A.B., Villavencencio, A.T., Friedman, A.H., Friedman, H.S., Bigner, D.D., and **Sampson, J.H.**: *In vitro* generation of dendritic cells from the peripheral blood of patients with malignant gliomas for antigen specific immunotherapy. 4th Annual Meeting, Society for Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
67. **Sampson, J.H.**, Crotty, L.E., Archer, G.E., Friedman, A.H., Friedman, H.S., and Bigner, D.D.: Tumoricidal humoral immunity induced by a peptide vaccination against the epidermal growth factor receptor mutation. 4th Annual Meeting, Society for Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
68. Wikstrand, C.J., Cole, L.E., Crotty, L.E., **Sampson, J.H.**, Bigner, D.D. Development of potentially therapeutic anti-idiotypic MAbs for EGFRvIII-expressing tumors. 4th Annual Meeting, Society for Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
69. Friedman, H., Cokgor, I., Kerby, T., Edwards, S., Albergo, G., Tourt-Uhlig, S., Rich, J., Stewart, E., McLendon, R., Provenzale, J., Malczyn, J., Miller, L., Zaknoen, S., Fraass, U., Dugan, M., Colvin, O., Bigner, D., Friedman, A., **Sampson, J.H.**, and Cohen, L.: Phase I trials of gliadelTM plus CPT-11 or temodal® (temozolomide). 4th Annual Meeting of the Society for Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
70. Quinn, J., Cokgar, I., Rich, J., Sands, H., Tourt-Uhlig, S., Garcia-Turner, A., Stewart, B., **Sampson, J.H.**, Friedman, A., Friedman, H.: Phase I trial of intrathecal busulfan for patients with neoplastic meningitis. 36th Annual Meeting, American Society of Clinical Oncology, New Orleans, LA, May 20-23, 2000.
71. Colvin, O., Cokgor, I., Edwards, S. Albergo, G., Tourt-Uhlig, S., Rich, J., Quinn, J., Stewart, B., McLendon, R., Provenzale, J., **Sampson, J.H.**, Haglund, M.: Phase I trials of Gliadel plus CPT-11 or temodar. 36th Annual Meeting, American Society of Clinical Oncology, New Orleans, LA, May 20-23, 2000.

72. Friedman, A., Cokgor, I., Edwards, S., Rich, J., Quinn, J., Stewart, B., McLendon, R., Affronti, M., Rasheed, K., Provenzale, J., Tourt-Uhlig, S., **Sampson, J.H.**: Phase II treatment of anaplastic oligodendroglioma and low grade glioma with temozolomide. 36th Annual Meeting, American Society of Clinical Oncology, New Orleans, LA, May 20-23, 2000.
73. Friedman, H.S., Quinn, J.A., Rich, J.N., Tourt-Uhlig, S., McLendon, R.E., Provenzale, J.M., **Sampson, J.H.**, Haglund, M., Colvin, O.M., Cokgor, I., Gururangan, S., Affronti, M.L., Edwards, S., Albergo, G., Stewart, E., Beason, R., Zaknoen, S., Bigner, D.D., Stafford-Fox, V., Early, M., and Friedman, A.H.: Phase I trial of gliadel plus temodar. 5th Annual Meeting of the Society for Neuro-Oncology, Chicago, IL, November 9-12, 2000.
74. **Sampson, J.H.**, Crotty, L.E., Lee, S., Archer, G.E., Ashley, D.M., Wikstrand, C.J., Hale, L.P., Small, C., Dranoff, G., Friedman, A.H., Friedman, H.S., and Bigner, D.D.: Unarmed, tumor-specific antibody effectively treats brain tumors. Presentation: 5th Annual Meeting of the Society for Neuro-Oncology, Chicago, IL, November 9-12, 2000.
75. Quinn, J.A., Rich, J.N., Reardon, D.A., **Sampson, J.H.**, Provenzale, J.M., McLendon, R.E., Edwards, S.D., Tourt-Uhlig, S.E., Gururangan, S., Affronti, M.L., Stewart, E.S., Buchanan, M.W., Bigner, D.D., Stafford-Fox, V., Zaknoen, S., Haglund, M.M., Friedman, A.H., and Friedman, H.S.: Phase II trial of Temodar[®] for progressive low grade glioma. 92nd Annual Meeting, American Association for Cancer Research, New Orleans, LA, March 24-28, 2001.
76. Reardon, D., Akabani, G., Friedman, A., Friedman, H., Herndon, II, J., Cokgor, I., McLendon, R., Quinn, J., Rich, J., Regalado, L., **Sampson, J.H.**, Shafman, T., Wong, T., Zalutsky, M., Bigner, D.: Results of a phase II trial in the treatment of newly diagnosed patients with high grade glioma treated with Iodine 131 murine anti-tenascin monoclonal antibody 81C6 via surgically created resection cavities. 92nd Annual Meeting, American Association for Cancer Research, New Orleans, LA, March 24-28, 2001.
77. Tourt-Uhlig, S., Quinn, J.A., Rich, J.N., Reardon, D.A., **Sampson, J.H.**, Provenzale, J.M., McLendon, R.E., Edwards, S., Gururangan, S., Affronti, M.L., Buchanan, W., Jackson, S., Allen, D., Penne, K., Lentz, C., Bigner, D.D., Haglund, M., Friedman, A.H., Avgeropoulos, N., Korones, D., Zaknoen, S., and Friedman, H.S.: Phase II trial of Temodar[®] in patients with progressive or recurrent low grade glioma. 37th Annual Meeting, American Society of Clinical Oncology, San Francisco, CA, May 12-15, 2001.
78. Shafman, T., Friedman, H., Friedman, A., Akabani, G., Cokgor, I., Herndon, J., III, McLendon, R., Quinn, J., Reardon, D., Rich, J., Regalado, L., **Sampson, J.H.**, Wong, T., Zalutsky, M., Bigner, D.: Update of a phase II trial of iodine-131-labeled anti-tenascin monoclonal antibody for the treatment of recurrent brain tumors. 37th Annual Meeting, American Society of Clinical Oncology, San Francisco, CA, May 12-15, 2001.
79. Rich, J., Reardon, D., Allen, D., Affronti, M.L., Carter, J., Edwards, S., Friedman, A., Gururangan, S., Herndon, J., Jackson, S., McLendon, R., Quinn, J., Tourt-Uhlig, S., **Sampson, J.H.**, Bigner, D., and Friedman, H.: Phase I/II trial of gliadel plus temodar for adult patients with recurrent high-grade glioma. 37th Annual Meeting, American Society of Clinical Oncology, San Francisco, CA, May 12-15, 2001.
80. Affronti, M.L., Reardon, D., Allen, D., Friedman, A., Gururangan, S., Herndon, J., Houghton, P., Jackson, S., McLendon, R., Quinn, J., Rich, J., **Sampson, J.H.**, Tourt-Uhlig, S., Walker, A., Bigner, D., and Friedman, H.: Phase I trial of topotecan with BCNU in the treatment of adult patients with recurrent high grade glioma. 37th Annual Meeting, American Society of Clinical Oncology, San Francisco, CA, May 12-15, 2001.

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82. Friedman, H.S., Petros, W., Rich, J.N., Glantz, M.J., Bennington, V.T., Sands, H., Tourt-Uhlig, S., Stewart, E.S., Gururangan, S., **Sampson, J.H.**, Friedman, A.H., Colvin, M., and Quinn, J.: Phase I trial of intrathecal (Spartaject[®]) Busulfan for patients with neoplastic meningitis. 37th Annual Meeting, American Society of Clinical Oncology, , San Francisco, CA, May 12-15, 2001.
83. Friedman, A.H., Quinn, J.A., Tourt-Uhlig, S., Rich, J.N., Stewart, E.S., Affronti, M.L., Provenzale, J., McLendon, R., Gururangan, S., Buchanan, W., Colvin, O.M., Bigner, D.D., Beason, R., **Sampson, J.H.**, Haglund, M., Miller, L., and Friedman, H.S.: Phase I trial of CPT-11 plus BCNU in malignant glioma. 37th Annual Meeting, American Society of Clinical Oncology, San Francisco, CA, May 12-15, 2001.
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89. Quinn, J.A., Tourt-Uhlig, S., Rich, J.N., Reardon, D.A., **Sampson, J.H.**, Provenzale, J.M., McLendon, R.E., Edwards, S.D., Gururangan, S., Affronti, M.L., Buchanan, M.W., Jackson, S., Allen, H., Penne, K., Lentz, C., Bigner, D.D., Haglund, M.M., Friedman, A.H., Avger Opoulos, N., Korones, D. Stafford-Fox, V., Zaknoen, S., and Friedman, H.S.: Phase II trial of Temodar[®]

for progressive low grade glioma. 14th International Conference on Brain Tumor Research and Therapy, Asheville, NC, May 27-30, 2001.

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91. Wang, G.T., Chewning, T., Archer, G.A., McLendon, R.E., Bigner, D.D., Friedman, H.S., **Sampson, J.H.**: SN-38G delivered via intratumoral microinfusion is effective against malignant glioma in athymic rats. 6th Annual Meeting, Society for Neuro-Oncology, Washington, D.C., November 15-18, 2001.
92. Grossi, P.M., Archer, G.A., Bigner, D.D., **Sampson, J.H.**: Intratumoral infusion of unarmed herceptin against a murine model of intracranial breast cancer. 6th Annual Meeting, Society for Neuro-Oncology, Washington, D.C., November 15-18, 2001
93. Heimberger, Crotty, L.E., Archer, G.E., McLendon, R.E., Bigner, D.D., **Sampson, J.H.**: Preclinical Efficacy of Dendritic Cell Immunotherapy for CNS Tumors. Pasteur Institute, Paris, France, February 9-12, 2002.
94. Learn, C.A., Archer, G.E., Heimberger, A.B., McLendon, R.E., Chewning, T.A., Tuck, F.L., Pracyk, J.B., Friedman, A.H., Friedman, H.S., Bigner, D.D., **Sampson, J.H.**: Oral Administration of the Specific Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor (EGFR-TKI) ZD1839 (Iressa) is Efficacious Against EGFR-overexpressing Intracranial Tumors. 93rd Annual Meeting, American Association for Cancer Research, San Francisco, CA, April 6-10, 2002.
95. Hwang, E., Rich, J., Friedman, H., Keir, S., Cavenee, W., Bigner, D., Wakeling, A., **Sampson, J.H.**: Antitumor Activity of ZD-1839 (Iressa), An Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor (EGFR-TKI), In Combination With Temoxolomide In Human Cancer Xenografts. 93rd Annual Meeting, American Association for Cancer Research, San Francisco, CA, April 6-10, 2002.
96. **Sampson, J.H.**, Reardon, D., Akabani, G., Archer, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Penne, K., Paolino, A., Tourt-Uhlig, S., Quinn, J., Rich, J., Williams, R., Marcus, S., Wang, Q., Pastan, I., Bigner, D.: A Phase I Study of Intratumoral Infusion of a Recombinant Chimeric Protein Composed of Transforming Growth Factor (TGF)- α and a Mutated Form of the Pseudomonas Exotoxin (TP-38) for the Treatment of Malignant Brain Tumors. 93rd Annual Meeting, American Association for Cancer Research, San Francisco, CA, April 6-10, 2002.
97. Reardon, D., Akabani, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Quinn, J., Ricj, J., Penne, K., **Sampson, J.H.**, Shafman, T., Wong, T., Zalutsky, M., Bigner, D.: Phase I trial results: Treatment of patients with newly diagnosed malignant gliomas using 131-iodine labeled human/murine chimeric antitenascin monoclonal antibody 81C6 via surgically created resection cavities. 93rd Annual Meeting, American Association for Cancer Research, San Francisco, CA, April 6-10, 2002.
98. **Sampson, J.H.**, Grossi, P., Ocahai, H., Archer, G., Chewning, T., McLendon, R., Friedman, A., Friedman, H., Bigner, D.: Intracerebral Microinfusion of Herceptin[®] in an Athymic Rat Model of Intracranial Metastatic Breast Cancer. 93rd Annual Meeting, American Association for Cancer Research, San Francisco, CA, April 6-10, 2002.

99. Grossi, P., Ochiai, H., Archer, G., Bigner, D., **Sampson, J.H.**: Intracerebral Versus Systemic Microinfusion of Herceptin in an Athymic Rat Model of Intracranial Metastatic Breast Cancer. 70th Annual Meeting, American Association of Neurological Surgeons, Chicago, IL, April 6-11, 2002.
100. Grossi, P., **Sampson, J.H.**, Asaoka, K., Fukushima, T.: The Efficacy and Durability of Microvascular Decompression for Glossopharyngeal Neuralgia. 70th Annual Meeting, American Association of Neurological Surgeons, Chicago, IL, April 6-11, 2002.
101. Tourt-Uhlig, S., Reardon, D., Affronti, M.L., Allen, D., Beason, R., Evans, B., Gururangan, S., Friedman, A., Jackson, S., McLendon, R., Quinn, J., Rich, J., **Sampson, J.H.**, Stafford-Fox, V., Ziegler, K., Bigner, D.D., Friedman, H.: Treatment of adults with recurrent malignant glioma using temozolomide plus CPT-11: a phase I study. 38th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 18-21, 2002.
102. Reardon, D., Akabani, G., Friedman, A., Friedman, H., Herndon II, J., Cokgor, I., McLendon, R., Quinn, J., Rich, J., Penne, K., **Sampson, J.H.**, Shafman, T., Wong, T., Zalutsky, M., Bigner, D.D.: Phase I trial results of iodine-131-labeled antitenascin monoclonal antibody 81C6 treatment of patients with newly diagnosed malignant brain tumors following external beam radiotherapy. 38th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 18-21, 2002.
103. Friedman, H.S., Pluda, J., Weingart, J., Brem, H., Evans, B., Petros, W., Rich, J., Tourt-Uhlig, S., Gururangan, S., Reardon, D., **Sampson, J.H.**, Friedman, A., Provenzale, J., McLendon, R., Colvin, O.M., Bigner, D.D., Dolan, M.E., Pegg, A., Moschel, R., Quinn, J.: Phase I trial of temodar plus O⁶-benzylguanine in the treatment of patients with recurrent or progressive cerebral anaplastic gliomas. 38th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 18-21, 2002.
104. Quinn, J., Glantz, M., Petros, W., Rich, J., Sands, H., Tourt-Uhlig, S., Walker, A., Reardon, D., Gururangan, S., **Sampson, J.H.**, Friedman, A.H., Colvin, O.M., Friedman, H.: Phase I trial of intrathecal Spartaject busulfan for patients with neoplastic meningitis. 38th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 18-21, 2002.
105. Friedman, A.H., Agarwal, S., Evans, B., Walker, A., Tourt-Uhlig, S., Reardon, D., Affronti, M.L., Allen, D., Beason, R., Gururangan, S., Jackson, S., McLendon, R., Quinn, J., Rich, J., **Sampson, J.H.**, Stafford-Fox, V., Ziegler, K., Bigner, D.D., Friedman, H.S.: Novel use of Gliadel[®] for gliomas. 38th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 18-21, 2002.
106. Affronti, M.L., Reardon, D., Allen, D., Beason, R., Gururangan, S., Friedman, A., Herndon, J., Jackson, S., McLendon, R., Quinn, J., Rich, J., **Sampson, J.H.**, Walker, A., Bigner, D.D., Friedman, H.: A phase II study of CPT-11 plus BCNU for adults with high grade glioma. 38th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 18-21, 2002.
107. **Sampson, J.H.**, Reardon, D., Akabani, G., Archer, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Penne, K., Paolino, A., Tourt-Uhlig, S., Quinn, J., Rich, J., Williams, R., Marcus, S., Pastan, I., Bigner, D.D.: A phase I study of intratumoral infusion of a recombinant chimeric protein composed of transforming growth factor (TGF)- α and a mutated form of the pseudomonas exotoxin (TP-38) for the treatment of malignant brain tumors. 38th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 18-21, 2002.

108. Reardon, D., Akabani, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Quinn, J., Rich, J., Penne, K., **Sampson, J.H.**, Shafman, T., Wong T., Zalutsky, M., and Bigner, D.D.: Treatment of patients with newly diagnosed malignant gliomas using iodine 131-labeled human-mouse chimeric antitenascin monoclonal antibody 81C6 via surgically created resections cavities: Phase I/II trial results. 5th Congress of the European Association for Neuro-Oncology, Florence, Italy, September 7-10, 2002.
109. Quinn, J., Pluda, J., Weingart, J., Brem, H., Petros, W., Evans, B., Rich, J., Tourt-Uhlig, S., Gururangan, S., Reardon, D., **Sampson, J.H.**, Friedman, A., Provenzale, J., McLendon, R., Colvin, M., Bigner, D., Dolan, E., Pegg, A., Moschel, Friedman, H.: Phase I trial of temodar plus O6-benzylguanine in the treatment of patients with recurrent or progressive cerebral anaplastic gliomas. 7th Annual Meeting, Society for Neuro-Oncology, San Diego, CA, November 21-24, 2002.
110. Reardon, D., **Sampson, J.H.**, Akabani, G. Archer, G., Coleman, R., Friedman, A., Friedman, H., Herndon, J., Kunwar, S., McLendon, R., Penne, K., Paolino, A., Quinn, J., Rich, J, Williams, R., Marcus, S., Pastan, I., and Bigner, D.: Preliminary Phase I study results of a recombinant chimeric protein composed of transforming growth factor (TGF)- α and a mutated form of the pseudomonas exotoxin termed PE-38 (TP-38) for the treatment of malignant brain tumors. 7th Annual Meeting, Society for Neuro-Oncology, San Diego, CA, November 21-24, 2002.
111. Reardon, D., Akagani, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Quinn, J., Rich, J., Penne, K., **Sampson, J.H.**, Shafman, T., Wong, T., Zalutsky, M., And Bigner, D.: Results of a Phase I/II trial using iodine 131-labeled human-mouse chimeric antitenascin monoclonal antibody 81C6 via surgically created resection cavities in the treatment of patients with newly diagnosed malignant gliomas. 7th Annual Meeting, Society for Neuro-Oncology, San Diego, CA, November 21-24, 2002.
112. Reardon, D., Affronti, M.L., Allen, D., Beason, R., Gururanga, S., Friedman, A., Herndon, J., Jackson, S., McLendon, R., Quinn, J., Rich, J., **Sampson, J.H.**, Walker, A., Ziegler, K., Bigner, D., and Friedman, H.: A Phase II study of upfront CPT-11 plus BCNU for adults with newly diagnosed high grade glioma. 7th Annual Meeting, Society for Neuro-Oncology, San Diego, CA, November 21-24, 2002.
113. **Sampson, J.H.**, Reardon, D., Akabani, G., Coleman, R., Friedman, A., Friedman, H., Herndon, J., Kunwar, S., McLendon, R., Penne, K., Paolino, A., Quinn, J., Rich, J., Williams, R., Marcus, S., Pastant, I., Bigner, D.: Preliminary Phase I Study Results of a Recombinant Chimeric Protein Composed of Transforming Growth Factor (TGF)- α and a Mutated Form of the Pseudomonas Exotoxin Termed PE-38 (TP-38) for the Treatment of Malignant Brain Tumors. 71st Annual Meeting, American Association of Neurological Surgeons, San Diego, CA, April 26-March 1, 2003.
114. Learn, C., Heimberger, A., Lal, A., Glazer, C., Martinson, H., Riggins, G., Archer, G., McLendon, Chewning, T., Tuck, F., Pracyk, J., Friedman, A., Friedman, H., Bigner, D., **Sampson, J.H.**: Brain Tumor Growth and Invasion in Mice are Susceptible to Inhibition by Blockade of Epidermal Growth Factor Receptor (EGFR) with a selective EGFR-Tyrosine Kinase Inhibitor. 71st Annual Meeting, American Association of Neurological Surgeons, San Diego, CA, April 26-March 1, 2003.

115. Quinn, J.A., Weingart, J., Brem, H., Rich, J., Reardon, D., **Sampson, J.H.**, Friedman, A., Friedman, H.S., Colvin, O.M., Dolan, E.: Phase I trial of temozolomide plus O⁶-benzylguanine in the treatment of patients with recurrent or progressive cerebral anaplastic gliomas. 39th Annual Meeting, American Society of Clinical Oncology, May 31-June 3, 2003.
116. Badruddoja, M.A., Reardon, D., Beason, R., Friedman, A., Quinn, J.A., Rich, J., **Sampson, J.H.**, Stafford-Fox, V., Bigner, D.D., Friedman, H.S.: Phase 1 study of temozolomide plus irinotecan (CPT-11) in adults with recurrent malignant glioma. 39th Annual Meeting, American Society of Clinical Oncology, May 31-June 3, 2003.
117. Shafman, T., Reardon, D.A., Akabani, G., Friedman, A., Friedman, H.S., **Sampson, J.H.**, Wong, T., Zhao, X.-G., Zalutsky, M., Bigner, D.D.: Delivering a targeted radiation boost dose of 44Gy to the resection cavity perimeter of patients with newly diagnosed malignant brain tumors via an individualized dose of 131-iodine labeled murine antitenascin monoclonal antibody 81C6: Preliminary results of a phase II trial. 39th Annual Meeting, American Society of Clinical Oncology, May 31-June 3, 2003.
118. **Sampson, J.H.**, Akabani, G., Archer, G., Berger, M., Friedman, A., Friedman, H.S., Marcus, S., Reardon, D., Bigner, D.D., Pastan, I.: Clinical outcome and distribution measure of a recombinant chimeric protein composed of transforming growth factor alpha and a mutated Pseudomonas exotoxin (TP-38) via convection-enhanced microinfusion on a phase I study for malignant brain tumor. 39th Annual Meeting, American Society of Clinical Oncology, May 31-June 3, 2003.
119. Archer, G., Bigner, D., Friedman, A., Friedman, H., Heimberger, A., **Sampson, J.H.**: Induction of CD4 and CD8 T cells to the tumor-specific antigen EGFRvIII. 15th International Conference on Brain Tumor Research and Therapy, Sorrento, Italy, May 24-27, 2003.
120. Boskovitz, A. Vaidyanathan, G., Archer, G., Ochiai, Okamura, T., **Sampson, J.H.**, Bigner, D.D., Zalutsky, M.: Alpha particle-emitting thymidine analogues: Therapeutic experiments on a neoplastic meningitis animal model. 15th International Conference on Brain Tumor Research and Therapy, Sorrento, Italy, May 24-27, 2003.
121. Learn, C.A., Hartzell, T.L., Archer, G., Riggions, G., Friedman, H., Friedman, A., Bigner, D., **Sampson, J.H.**: Inhibition of cell cycle progression and invasion of cells expressing epidermal growth factor receptor (EGFR) but not mutant EGFR variant III (EGFRvIII) by tyrosine kinase inhibition. 15th International Conference on Brain Tumor Research and Therapy, Sorrento, Italy, May 24-27, 2003.
122. Reardon, D., Akabani, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Quinn, J., Rich, J., Penne, K., **Sampson, J.H.**, Shafman, T., Vredenburgh, J., Wong, T., Zalutsky, M., Bigner, D.: Phase I trial results using iodine 131-labeled human-mouse chimeric antitenascin monoclonal antibody 81C6 via surgically created resection cavities in the treatment of patients with malignant gliomas. 15th International Conference on Brain Tumor Research and Therapy, Sorrento, Italy, May 24-27, 2003.
123. Rich, J., Peery, T., Reardon, D., Quinn, J., Dancy, J., Wikstrand, C., Stenzel, T., McLendon, R., Friedman, A., **Sampson, J.H.**, Bigner, D.D., Friedman, H.: Phase I/II trial of ZD1839 (Iressa) in patients with first-relapse glioblastoma. 15th International Conference on Brain Tumor Research and Therapy, Sorrento, Italy, May 24-27, 2003.

124. **Sampson, J.H.**, Akabani, G., Reardon, D.R., Coleman, R.E., Friedman, H.S., Provenzale, J.M., Friedman, A.H., Pedain, C., Brady, M., Raghavan, R., Pastan, I., Bigner, D.D.: Imaging and Predicting the Extensive Intracerebral Distribution of Macromolecules after Direct Infusion. 15th International Conference on Brain Tumor Research and Therapy, Sorrento, Italy, May 24-27, 2003.
125. Learn, C., Archer, G., Riggins, G., Friedman, H., Bigner, D., **Sampson, J.H.**: Inhibition of cell cycle progression and invasion of cells expressing epidermal growth factor receptor (EGFR) but not mutant EGFR variant III (EGFR vIII) by the specific EGFR tyrosine kinase inhibitor (TKI) gefitinib (Iressa, ZD1839). 94th Annual Meeting, American Association for Cancer Research, Washington D.C., July 11-14, 2003.
126. **Sampson, J.H.** and Lally-Batts, D.M.: Trigeminal neuralgia treatment options. Triad Chapter Support Meeting, Raleigh, NC, September 13, 2003.
127. Badruddoja, M.A., Reardon, D.A., Beason, R., Friedman, A., Quinn, J.A., Rich, J., **Sampson, J.H.**, Stafford-Fox, V., Bigner, D.D., Friedman, H.S. Phase I study of temozolomide plus irinotecan (CPT-11) in adults with recurrent malignant glioma. 8th Annual Meeting, Society of Neuro-Oncology, Keystone, CO, November 13-16, 2003.
128. Quinn, J., Glantz, M., Petros, W., Rich, R., Sands, H., Tourt-Uhlig, S., Walker, A., Reardon, D., Gururangan, S., Vredenburgh, J., **Sampson, J.H.**, Friedman, A., Colvin, O.M., Friedman, H.: Phase I trial of intrathecal Spartaject TM busulfan for patients with neoplastic meningitis. 8th Annual Meeting, Society of Neuro-Oncology, Keystone, CO, November 13-16, 2003.
129. Reardon, D., Affronti, M., Allen, D., Baddrudoja, M., Beason, R., Friedman, A., Gururangan, S., Jackson, S., Quinn, J., Rich, J., **Sampson, J.H.**, Vredenburgh, J., Walker, A., Zeigler, K., Bigner, D., Friedman, H.: A phase II study of CPT-11 plus celecoxib for adults with recurrent malignant glioma. 8th Annual Meeting, Society of Neuro-Oncology, Keystone, CO, November 13-16, 2003.
130. Reardon, D., Akabani, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Quinn, J., Rich, J., Vredenburgh, J., Penne, K., **Sampson, J.H.**, Shafman, T., Wong, T., Coleman, R., Zalutsky, M., Bigner, D.: Phase II trial of iodine 131-labeled murine antitenascin monoclonal antibody 81C6 (M81C6) via surgically created resection cavities in the treatment of patients with recurrent malignant brain tumors. 8th Annual Meeting, Society of Neuro-Oncology, Keystone, CO, November 13-16, 2003.
131. Rich, J.N., Peery, T., Reardon, D.A., Quinn, J., Van Duyn, L., Dancey, J., Wikstrand, C., Stenzel, T., McLendon, R., Herndon, J., Friedman, A.H., **Sampson, J.H.**, Bigner, D.D., Friedman, H.: Phase I/II trial of the epidermal growth factor receptor small molecule inhibitor ZD1839 (Gefitinib) in patients with first relapse glioblastoma. 8th Annual Meeting, Society of Neuro-Oncology, Keystone, CO, November 13-16, 2003.
132. Reardon, D.A., Akabani, G., Dowell, J., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Quinn, J., Rich, J., Vredenburgh, J., Penne, K., **Sampson, J.H.**, Shafman, T., Wong, T., Coleman, R., Zalutsky, M., Bigner, D.: Results of a phase II trial with iodine 131-labeled murine antitenascin monoclonal antibody 81C6 (m81C6) via surgically created resection cavities in the treatment of patients with recurrent malignant brain tumors. 95th Annual Meeting, American Association of Cancer Research, Orlando, FL, March 27-31, 2004.
133. Penne, K., Bohlin, C., Paolino, A., **Sampson, J.H.**, Archer, G.: Tumor-specific cell vaccines: Innovative therapy for primary and metastatic brain tumors. 29th Annual Oncology Nursing Society Congress, Anaheim, CA, April 29-May 2, 2004.

134. Hlatky, R., Aldape, K., Suki, D., McGary, E., **Sampson, J.H.**, Sawaya, R., Gilbert, M., Heimberger, A.: Is There a Prognostic Significance of Amplified EGFR or EGFRvIII Expression in GBM Patients? 72nd Annual Meeting, American Association of Neurological Surgeons, Orlando, FL, May 1-May 5, 2004.
135. **Sampson, J.H.**, Friedman, A., Reardon, D., Friedman, H., Provenzale, J., Bigner, D., Brady, M., Raghavan, R., Pedain, C., Archer, G., Lally-Batts, D., Grahn, A., Cohen, T., Dul, J., Croteau, D., Purl, R.: Convection-Enhanced Delivery of IL13-PE38QQR in Malignant Glioma: Effect of Catheter Placement on Drug Distribution. 72nd Annual Meeting, American Association of Neurological Surgeons, Orlando, FL, May 1-May 5, 2004.
136. **Sampson, J.H.**: CED: Current landscape and State of the art: Clinical setting. Accelerate Brain Cancer Cure Retreat, San Francisco, CA, September 23, 2004.
137. **Sampson, J.H.**: CED: Current landscape and State of the art: Pre-clinical setting. Accelerate Brain Cancer Cure Retreat, San Francisco, CA, September 23, 2004.
138. Archer, G., Bigner, D., Friedman, A., Friedman, H., Penne, K., Lally-Batts, D., Paolino, A., Tout-Uhlig, S., Reardon, D., **Sampson, J.H.**: Dendritic cell vaccine for intracranial tumors I (DC Victori trial). 9th Annual Meeting, Society for Neuro-Oncology, Toronto, Canada, November 18-21, 2004.
139. Desjardins, A., Reardon, D., Vredenburgh, J., Rich, J., Gururangan, S., Friedman, A., **Sampson, J.H.**, Provenzale, J., McLendon, R., Herndon, J., Badruddoja, M., Amara, J., Tourt-Uhlig, S., Newton, H., Friedman, H., Quinn, J.: Phase I trial of adults with primary malignant glioma with irinotecan (CPT-11) plus temozolomide (Temodar). 9th Annual Meeting, Society for Neuro-Oncology, Toronto, Canada, November 18-21, 2004.
140. Quinn, J., Desjardins, A., Reardon, D., Vredenburgh, J., Rich, J., Gururangan, S., Friedman, A., **Sampson, J.H.**, Provenzale, J., McLendon, R., Herndon, J., Dolan, M., Badruddoja, M., Walker, A., Tourt-Uhlig, S., Friedman, H.: Phase I trial of temozolomide (Temodar) plus irinotecan (CPT-11) plus O6-benzylguanine (O6-BG) in the treatment of recurrent or progressive cerebral anaplastic gliomas. 9th Annual Meeting, Society for Neuro-Oncology, Toronto, Canada, November 18-21, 2004.
141. Quinn, J., Desjardins, A., Reardon, D., Vredenburgh, J., Rich, J., Gururangen, S., Friedman, A., **Sampson, J.H.**, Provenzale, J., McLendon, R., Herndon, J., Dolan, M., Badruddoia, M., Walker, A., Tourt-Uhlig, S., Friedman, H.: Phase II trail of temozolomide (Temodar) plus O6-benzylguanine (O6-BG) in the treatment of patients with Temodar-resistant malignant glioma. 9th Annual Meeting, Society for Neuro-Oncology, Toronto, Canada, November 18-21, 2004.
142. Reardon, D., Akabani, G., Friedman, A., Friedman, H., Herndon, J., McLendon, R., Quinn, J., Rich, J., Vredenburgh, J., Penne, K., **Sampson, J.H.**, Gururangan, S., Shafman, T., Wong, T., Dowell, J., Dunn, R., Badruddoja, M., Desjardins, A., Affronti, M., Allen, D., Jackson, S., Zeigler, K., Silverman, S., Tourt-Uhlig, S., Coleman, R., Zalutsky, N., Bigner, D.: Phase II study of 131-iodine-labeled anti-tenascin murine monoclonal antibody 81C6 (M81C6) administered to deliver a targeted radiation boost dose of 44 Gy to the surgically created cystic resection cavity perimeter in the treatment of patients with newly diagnosed primary and metastatic brain tumors. 9th Annual Meeting, Society for Neuro-Oncology, Toronto, Canada, November 18-21, 2004.

143. Reardon, D., Friedman, A., Herndon, J., Quinn, J., Rich, J., Vrendenburgh, J., Badruddoia, M., Desjardins, A., **Sampson, J.H.**, Gururangan, S., Dowell, J., Affronti, M., Allen, D., Jackson, S., Zeigler, K., Silverman, S., Tourt-Uhlig, S., Salvado, A., Nikolova, Z., Bigner, D., Friedman, H.: Phase II trial of imatinib mesylate plus hydroxyurea in the treatment of patients with malignant glioma. 9th Annual Meeting, Society for Neuro-Oncology, Toronto, Canada, November 18-21, 2004.
144. **Sampson, J.H.**: Dendritic cell-based immunotherapy targeting novel tumor antigens in malignant gliomas: *Cytomegalovirus*- the cause and cure of brain tumors in adults and children. Grand Rounds, University of Manitoba, December 18, 2004. (**Visiting Professor**)
145. **Sampson, J.H.**: Convection-enhanced delivery: A new and challenging paradigm for the treatment of malignant glioma. University of Manitoba, Section of Neurosurgery Grand Rounds, December 22, 2004.
146. **Sampson, J.H.**: Two Roads to the Cure of Malignant Brain Tumors: intracerebral Infusion and Anti-viral therapy. University of Texas, M. D. Anderson Cancer Center, February 28, 2005. (**Recruitment Visit**)
147. **Sampson, J.H.**: VICTORI (Vaccine for Intra-Cranial TumORs I) results. University of Texas, M. D. Anderson Cancer Center, March 1, 2005. (**Recruitment Visit**)
148. Kunwar, S., Ram, Z., **Sampson, J.H.**, Prados, M., Chang, S., Lang, F.F., Piepmeier, J.M., Gutin, P.H., Croteau, D., Puri, R.K.: Peritumoral convection-enhanced delivery (CED) of IL13-PE38QQR (IL13PE): Results of multicenter phase I studies in recurrent high grade glioma (HGG). 2nd Quadrenial Meeting, World Federation of Neuro-Oncology, Edinburgh, U.K., May 5-8, 2005.
149. Archer, G., Bigner, D., Friedman, A., Friedman, H., Penne, K., Smith, D., Reardon, D., **Sampson, J.H.**: Immunologic targeting of the tumor-specific antigen contained in the deletion mutation of the epidermal growth factor receptor (EGFRvIII) with peptide loaded dendritic cells in patients with malignant gliomas. 2nd Quadrenial Meeting, World Federation of Neuro-Oncology, Edinburgh, U.K., May 5-8, 2005.
150. Prados, M., Kunwar, S., Lang, F.F., Ram, Z., Westphal, M., Barnett, G., **Sampson, J.H.**, Croteau, D., Puri, R.K.: Final results of Phase I/II studies of IL13-PE38QQR administered intratumorally (IT) and/or peritumorally (PT) via convection-enhanced delivery (CED) in patients undergoing tumor resection for recurrent malignant glioma. 41st Annual Meeting, American Society of Clinical Oncology, May 13-17, 2005.
151. Heimberger, A, Hussain, S., Suki, D., Hess, K., Shi, W., Aldape, K., Crutcher, L., Gilbert, M., Sawaya, R., Archer, G., Smith, D., Friedman, H., Reardon, D., Herndon, J., Friedman, A., Bigner, D., **Sampson, J.H.**: An epidermal growth factor receptor variant III Peptide Vaccination appears promising in Newly Diagnosed GBM Patients: Preliminary Results of a Randomized Phase II Clinical Trial. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
152. Mitchell, D., Xie, W., Ellis, M., Learn, C., Schmittling, R., Friedman, A., McLendon, R., Bigner, D., **Sampson, J.H.**: Detection and Immunologic Recognition of *Cytomegalovirus* Antigens Expressed Within Malignant Gliomas. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.

153. **Sampson, J.H.**, Raghavan, R., Brady, M., Provenzale, J., Lally-Goss, D., Tansey, L., McGehee, S., Ochiai, H., Smith, D., Petry, N., Croteau, D., Grahn, A., Sherman, J., Pri, Raj., Friedman, A., Greer, K., Coleman, R., Wong, T., Bigner, D., Pastan, I., Pedain, C.: Validation of a Patient-specific Convection-enhanced Delivery Simulation Algorithm with SPECT Imaging. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
154. Mitchell, D., Karikari, I., Xie, W., Schmittling, R., Archer, G., Learn, C., **Sampson, J.H.**: Selection of Antigen-Specific T cells Using RNA Transfection of Marker Genes. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
155. Mitchell, D., Cui, X., Ochiai, H., Chewning, T., Friedman, H., **Sampson, J.H.**: Enhancement of Antigen-Specific Immune Responses in Mice Recovering from Temozolomide Induced Lymphopenia. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
156. Karikari, I., Xie, W., Schmittling, R., Archer, G., Learn, C., **Sampson, J.H.**, Mitchell, D.: RNA-Modified T cells for Use in Adoptive Immunotherapy. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
157. Xie, W., Humphries, W., Smith, D., Pegram, C., Bigner, D., Mitchell, D., **Sampson, J.H.**: Detection of Human *Cytomegalovirus* in the Peripheral Blood of Patients with Glioblastoma Multiforme. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
158. Mitchell, D., Humphries, W., Ochiai, H., Henry, S., Hamilton, J., **Sampson, J.H.**: Development of a Novel Murine Model of *CMV*-Associated Astrocytoma. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
159. Learn, C., Schmittling, B., **Sampson, J.H.**: Investigations into CD4⁺ and CD8⁺ T Lymphocyte Expression Profiles in Patients with GBM. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
160. Vogelbaum, M.A., **Sampson, J.H.**, Kunwar, S., Chang, S., Lang, F.F., Shaffrey, M.E., Asher, A.L., Croteau, D., Parker, K., Laway, C., Sherman, J.W., Puri, R.K.: Results of a Phase I study: Convection-enhanced delivery of cintredekin besudotox (IL13-PE38QQR) followed by radiation therapy without and with temozolomide in newly diagnosed malignant glioma patients. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
161. Unger, J., Fecci, P., Ochiai, H., Mitchell, D., Schmittling, B., Chewning, T., **Sampson, J.H.**: Radiotherapy with regulatory T-cell depletion is synergistic for treatment of experimental model of malignant glioma. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
162. Fecci, P., Nair, S., Mitchell, D., Cummings, T., Bigner, D., **Sampson, J.H.**: Systemic Depletion of Regulatory T-cells Facilitates Rejection of Tumors Harbored Within the Brain. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.

163. Fecci, P., Ochiai, H., Archer, G., Chewning, T., Mitchell, D., Cummings, T., Dranoff, G., Allison, J., **Sampson, J.H.**: Systemic Blockade of Cytotoxic T Lymphocyte-Associated Antigen 4 (CTLA-4) Enhances Anti-Tumor Immunity against Established Tumor in a Murine Model of Intracranial Glioma. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
164. Fecci, P., Mitchell, D., Whitesides, J., Xie, W., Archer, G., Bigner, D., Dranoff, G., **Sampson, J.H.**: Increased Proportions of Tregs Within a Diminished CD4 Compartment Explain Cellular Immune Defects in patients with Malignant Gliomas. 74th Annual Meeting, American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
165. Heimberger, A., Hussain, F., Aldape, K., Sawaya, R., Archer, G., Friedman, H., Reardon, D., Friedman, A., Bigner, D., **Sampson, J.H.**: Tumor-specific Peptide Vaccination in Newly-Diagnosed Patients with GBM. 42nd Annual Meeting, American Society of Clinical Oncology, Atlanta, GA, June 2-6, 2006.
166. Lally-Goss, D., **Sampson, J.H.**: Normal Pressure Hydrocephalus: Recognition, Diagnosis, and Treatment. 21st National Conference, American Academy of Nurse Practitioners, Grapevine, TX, June 20-24, 2006.
167. Reardon, D., Akabani, G., Friedman, A., Friedman, H. Herndon, J., McLendon, R., Quinn, J., Rich, J., Vrendenburga, J., Dejardins, A., **Sampson, J.H.**, Gururangan, S., Kirkpatrick, J., Wong, T., Dowell, J., Dunn, R., Sathornsumettee, S., Boutiton, S., Coleman, R., Zalustsky, M., Bigner, D.: Patient-specific murine I-131-labeled anti-tenascin monoclonal antibody 81C6 radioimmunotherapy for delivering a 44-GY boost to the resection cavity periphery of patients with newly diagnosed primary malignant brain tumors: A feasibility pilot study. 11th Annual Meeting, Society for Neuro-Oncology, Orlando, FL, November 16-19, 2006.
168. Vogelbaum, M.A., **Sampson, J.H.**, Kunwar, S., Chang, S.M., Lang, F.F., Shaffrey, M., Ashler, A.L., Croteau, D., Parker, K., Dul, J.L., Sherman, J.W., Puri, R.K.: Phase I study final safety results: Convection-enhanced delivery of cintredekin besudotox (IL13-PEQQRR) followed by radiation therapy without and with temozolomide in newly diagnosed malignant glioma. 11th Annual Meeting, Society for Neuro-Oncology, Orlando, FL, November 16-19, 2006.
169. Heimberger, A.B., **Sampson, J.H.**: "Preclinical Trial Results," Celldex ACT III Study Clinical Investigator's Meeting, Dallas, TX, February 10, 2007.
170. **Sampson, J.H.**, Heimberger, A.B.: VICTORI, ACTIVATE, AND ACT II. Celldex ACT III Study Clinical Investigator's Meeting, Dallas, TX, February 10, 2007.
171. Heimberger, A.B., Hussain, S.F., Aldape, K., Sawaya, R., Archer, G.A., Friedman, H.S., Reardon, D., Friedman, A., Bigner, D.D., **Sampson, J.H.**: Tumor-specific peptide vaccination in newly-diagnosed patients with GBM. 43rd Annual Meeting, American Society of Clinical Oncology, Chicago, IL, June 1-5, 2007.
172. Heimberger, A.B., **Sampson, J.H.**: Educational Session: Immunotherapy of Glioblastoma. 43rd Annual Meeting, American Society of Clinical Oncology, Chicago, IL, June 1-5, 2007. (**Invited Educational Session**)
173. **Sampson, J.H.**: Brain tumors: Turning money into knowledge and knowledge into cure. St. Charles Country Club, Winnipeg Regional Health Authority Donors Dinner, June 19, 2007. (**Recruitment Visit**)

174. **Sampson, J.H.:** Investigating and counteracting tumor-induced immunosuppression to enhance tumor-specific immunotherapy in malignant gliomas. Grand Rounds, University of Manitoba, June 20, 2007. **(Recruitment Visit)**
175. **Sampson, J.H.:** Novel Brain Tumor Therapies. MGI PHARMA Meeting; Las Vegas, NV, October 3, 2007.
176. Heimberger, A., Davis, T., Keler, T., Vitale, L., **Sampson, J.H.:** EGFRVIII Vaccine (CDX-110) Alone and with Simultaneous Temozolomide in Patients with Newly Diagnosed, Resected, EGFRVIII Positive GBM. 22nd Annual Meeting, International Society for Biological Therapy of Cancer (iSBTc), Boston, MA, November 3, 2007.
177. **Sampson, J.H.:** Active Immunotherapy Targeting Brain Tumor Stem Cells in an Immunocompetent Murine Model. The Preuss Foundation Seminar on “Stem Cell Biology,” La Jolla, CA, November 7-9, 2007.
178. Kunwar, S., Westphal, M., Medhorn, M., Ram, Z., **Sampson, J.H.**, Byrne, R., Lang, F., Tatter, S., Piepmeier, J., Barnett, G., Guha, A., Mooij, J., Vogelbaum, M., Chang, S., Croteau, D., Sherman, J., Puri, R.: Results from precise: a randomized phase 3 study in patients with first recurrent glioblastoma multiforme (GBM) comparing cintredekin besudotox (CB) administered via convection-enhanced delivery (CED) with gliadel wafers (GW). 12th Annual Scientific Meeting, Society for Neuro-Oncology (SNO), Gaylord, TX, November 15-18, 2007.
179. Mitchell, D.A., Karikari, I., Cui, X., Xie, W., Schmittling, R., **Sampson, J.H.:** Selective modification of antigen-specific T cells using RNA electroporation. 12th Annual Scientific Meeting, Society for Neuro-Oncology (SNO), Gaylord, TX, November 15-18, 2007.
180. Mitchell, D., Cui, X., Chewning, T., Friedman, H., **Sampson, J.H.:** Induction of enhanced immunologic responses during hematopoietic recovery from temozolomide-induced lymphopenia. 12th Annual Scientific Meeting, Society for Neuro-Oncology (SNO), Gaylord, TX, November 15-18, 2007.
181. Archer, G., Mitchell, D., Heimberger, A., Friedman, H., Reardon, D., Vredenburgh, J., Gilbert, M., Friedman, A., Sawaya, R., Aldape, K., Bigner, D., **Sampson, J.H.:** Temozolomide therapy induces an increase in regulatory T-cells without abrogating a specific tumor. 12th Annual Scientific Meeting, Society for Neuro-Oncology (SNO), Gaylord, TX, November 15-18, 2007.
182. Mitchell, D., Archer, G., Bigner, D., Friedman, A., Friedman, H., Reardon, D., Vredenburgh, J., Herndon, J., McLendon, R., **Sampson, J.H.:** RNA-loaded dendritic cells targeting *Cytomegalovirus* in patients with malignant glioma. 12th Annual Scientific Meeting, Society for Neuro-Oncology (SNO), Gaylord, TX, November 15-18, 2007.
183. **Sampson, J.H.**, Friedman, H.S., Bigner, D.D.: Novel approaches to the immunotherapy of brain tumors: Targeting EGFRvIII and CTLA-4 as an adjuvant. Accelerate Brain Cancer Cure Retreat, San Francisco, CA, November 29, 2007.
184. **Sampson, J.H.:** Slaying Goliath: Advancing a Tumor-Specific Vaccine for Malignant Gliomas to the Holy Grain of Big Pharma. Emory University Brain Tumor Visiting Professor Program Seminar, Atlanta GA, January 30, 2008. **(Recruitment Visit)**
185. **Sampson, J.H.:** If you want drugs in the brain, don't put them in the vein – Convection-enhanced delivery to the brain: promise and pitfalls. Visiting Professor Grand Rounds lecture, Emory University, Atlanta GA, January 31, 2008. **(Recruitment Visit)**

186. **Sampson, J.H.:** CTLA-4 blockade in patients with recurrent glioblastoma multiforme. Emory University, Atlanta, GA, January 31, 2008. (**Grantee Award**)
187. **Sampson, J.H.:** Vaccines targeting EGFRvIII. Grand Rounds, Department of Neurosurgery, University of Washington, Seattle, WA, April 9, 2008.
188. Mitchell, D.A., Archer, G.E., Bigner, D.D., Desjardins, A., Friedman, A.H., Friedman, H.S., Lally-Goss, D., Herndon, II, J.E., McGehee, S., McLendon, R.E., Perry, B., Reardon, D., Rich, J., Silverman, S., Vredenburgh, J., **Sampson, J.H.:** Efficacy and immunologic effects of RNA-pulsed dendritic cell vaccines targeting human *Cytomegalovirus* antigens in patients with glioblastoma. 99th Annual Meeting, American Association for Cancer Research, San Diego, CA, April 12-16, 2008.
189. Archer, G.A., Heimberger, A., Pelloski, C., Hussain, S., Sun, W., Suki, D., Hess, K., Shi, W., Aldape, K., Gilbert, M., Sawaya, R., Schmittling, B., Archer, G., Herndon, J., Davis, T., Keler, T., Friedman, H., Vredenburgh, J., Reardon, D., Friedman, A., Bigner, D., **Sampson, J.H.:** Humoral and cell-mediated immune responses to EGFRvIII-targeted vaccine (CDX-110) are enhanced with continuous temozolomide in patients with GBM. 99th Annual Meeting, American Association of Cancer Research, San Diego, CA, April 12-16, 2008.
190. **Sampson, J.H.** for EGFRvIII Vaccine Group. Temozolomide Enhances Efficacy of EGFRvIII Vaccine (CDX-110) in Patients with Newly-diagnosed GBM. 76th Annual Meeting, American Association of Neurological Surgeons, Chicago, IL, April 26-May 1, 2008.
191. Mitchell, D.A., Archer, G.E., McGehee-Norman, S., Perry, B.A., Lally-Goss, D., Schmittling, R., Bigner, D.D., Friedman, A.H., Friedman, H.S., Reardon, D.A., Vredenburgh, J.J., Herndon, J.E., Fecci, P.E., **Sampson, J.H.:** A Phase I/II Clinical Trial Evaluating RNA-loaded Dendritic Cells Targeting Human *Cytomegalovirus* in Patients with Newly-diagnosed GBM. 76th Annual Meeting, American Association of Neurological Surgeons, Chicago, IL, April 26-May 1, 2008.
192. **Sampson, J.H.:** Slaying Goliath: Advancing a Tumor-Specific Vaccine for Malignant Gliomas to the Holy Grain of Big Pharma. Grand Rounds, University of Calgary, May 16, 2008. (**Recruitment Visit**)
193. Mitchell, D., Archer, G., Bigner, D., Desjardins, A., Friedman, A., Friedman, H., Lally-Goss, D., Herndon, J., McGehee, S., McLendon, R., Perry, B., Reardon, D., Rich, J., Silverman, S., Vredenburgh, J., **Sampson, J.H.:** Phase II trial of RNA-pulsed dendritic cell vaccines targeting human *Cytomegalovirus* antigens in patients with GBM. 13th Biennial Meeting, Canadian Neuro-Oncology Meeting, Banff, Alberta, May 16-18, 2008.
194. **Sampson, J.H.:** Lessons learned from imaging and computerizing convection-enhanced intracerebral delivery. 13th Biennial Meeting, Canadian Neuro Oncology Meeting, Banff, Alberta, May 16-18, 2008. (**Del Meastro International Guest Lecturer**)
195. Mitchell, D.A., Archer, G.E., Bigner, D.D., Friedman, H.S., Lally-Goss, D., Herndon, J.E., McGehee, S., McLendon, R., Reardon, D.A., **Sampson, J.H.:** Efficacy of a Phase II vaccine targeting *Cytomegalovirus* antigens in newly-diagnosed GBM. 44th Annual Meeting, American Society of Clinical Oncology, Chicago, IL, May 30-June 3, 2008. (**ASCO Merit Award**)
196. Anders, C.K., Hsu, D., Acharya, C., McLendon, R., **Sampson, J.H.**, Vredenburgh, J., Satterfield, D., Spector, N., Potti, A., Blackwell, K.L.: A genomic approach to define important and targetable molecular pathways in brain metastasis arising from solid tumors. 44th Annual Meeting, American Society of Clinical Oncology, Chicago, IL, May 30-June 3, 2008. (**ASCO Merit Award**)

197. **Sampson, J.H.**, Archer, G. E., Bigner, D. D., Davis, T., Friedman, H. S., Keler, T., Mitchell, D. A., Reardon, D.A., Sawaya, R., Heimberger, A.B.: EGFRvIII-targeted Vaccine (CDX-110) induces immune responses and prolongs TTP when given with simultaneous standard and continuous temozolomide in patients with GBM, 44th Annual Meeting, American Society of Clinical Oncology, Chicago, IL, May 30-June 3, 2008.
198. Mitchell, D.A., Archer, G.E., Bigner, D.D., Friedman, H.S., Lally-Goss, D., Herndon, J.E., McGehee, S., McLendon, R., Reardon, D.A., **Sampson, J.H.**: Efficacy of a Phase II vaccine targeting *Cytomegalovirus* antigens in newly-diagnosed GBM. 17th International Conference on Brain Tumor Research and Therapy, Hakodate, Japan, June 9-12, 2008.
199. Archer, G.E., Heimberger, A.B., Bigner, D.D., Davis, T., Friedman, H.S., Keler, T., Mitchell, D.A., Reardon, D., Sawaya, R., Vredenberg, J., **Sampson, J.H.**: Induction of Immunologic and clinical responses with EGFRvIII-targeted vaccine (CDX-110) with cycles of temozolomide in patients with newly-diagnosed EGFRvIII positive GBM. 17th International Conference on Brain Tumor Research and Therapy, Hakodate, Japan, June 9-12, 2008.
200. Kirkpatrick, J.P., Wu, Q.J., Yin, F., Zheng, C., **Sampson, J.H.**, Wang, Z.: Exploiting the capabilities of advanced planning and treatment technology in radiotherapy: initial clinical strategy and experience. 21st JASTRO Annual Meeting, Sapporo, Japan, October 16-18, 2008.
201. **Sampson, J.H.**, Pedain, C., Wembacher-Schroder, Rodriguez-Ponce, I., Westphal, M., Kunwar, S., Vogelbaum, M.A., Raghavan, R., Brady, M., Friedman, A.H., Friedman, H.S., Reardon, D.A., Bigner, D.D., Pastan, I., Mittermeyer, S., Goldbrunner, R., Tanner, P.G., Croteau, D., Puri, R.: Poor Coverage as a Possible Explanation for the Low Efficacy Results with CED: Simulation Analysis of Patients from the PRECISE Study. 77th Annual Meeting, American Association of Neurological Surgery, San Diego, CA, May 2-7, 2009.
202. **Sampson, J.H.**: Clinical Immunotherapy Approaches in Brain Tumors. Cedar-Sinai Medical Center, Department of Neurosurgery sponsored Stem Cells and Immunity in Glioma Therapy. Los Angeles, CA, May 8, 2009.
203. **Sampson, J.H.**, Archer, G.E., Bigner, D.D., Schmittling, R.J., Herndon, J.E., Davis, T., Friedman, H.S., Keler, T., Reardon, D.A., Mitchell, D.A.: Effect of daclizumab on TReg counts and EGFRvIII-specific immune responses in GBM. 45th Annual Meeting, American Society of Clinical Oncology, Orlando, FL, May 29-June 2, 2009.
204. **Sampson, J.H.**: Advancing Tumor-specific Immunotherapy to the Holy Grail of the Big Pharma and Beyond...! Seminar-University of Virginia, Charlottesville, VA, August 6-7, 2009.
205. Chang, S., **Sampson, J.H.**, Aghi, M., Theodosopoulos, P.V.: Novel Therapies in the Management of Malignant Brain Tumors: Bevacizumab and Surgery. CNS Neurosurger Webinars, Controversies in Neuro-Oncology: An Academic- Community Forum, January 12, 2010.
206. **Sampson, J.H.**: Inhibition of Regulatory T-cell Immunosuppression in GBM. 78th Annual Meeting, American Association of Neurological Surgery, Philadelphia, PA, May 1-5, 2010.
207. Kanaly, C.W., Ding, D., Hoang, J., Kranz, P., Herndon, J., Coan, C., Crocker, I., Fox, T.H., Pantalone, P., Waller, A.F., Friedman, A.H., Reardon, D.A., **Sampson, J.H.**: A Novel, Reproducible, and Objective Method for Volumetric MRI Assessment of Enhancing Brain Tumors 78th Annual Meeting, American Association of Neurological Surgery, Philadelphia, PA, May 1-5, 2010.

208. **Sampson, J.H.:** Inhibition of Regulatory T-cell Immunosuppression in GBM. 78th Annual Meeting, American Association of Neurological Surgery, Philadelphia, PA, May 1-5, 2010.
209. **Sampson, J.H.:** Advancing a Tumor-specific Vaccine to the Holy Grail of Big Pharma: Turning Knowledge into Money! Memorial Sloan-Kettering Medical Center, Grand Rounds Presentation, May 6, 2010.
210. **Sampson, J.H.,** Archer, G.E., Schmittling, R., Herndon, J.E., II, Coan, A., Reardon, D.A., Vredenburgh, J., Desjardins, A., Dechkovskaia, A., McGehee-Norman, S., Lally-Goss, D., Perry, B.A., Friedman, A., Friedman, H.S., Bigner, D.D., Mitchell, D.A.: Interleukin-2 Receptor α (IL-2R α / CD25)-specific Antibodies Eliminate Regulatory T-cells (T_{Regs}) without Eliminating Vaccine-induced, Tumor-specific Immune Responses against *Cytomegalovirus* (CMV) in the Context of Therapeutic Temozolomide (TMZ)-induced Lymphopenia In Patients With Glioblastoma (GBM). 18th International Conference on Brain Tumor Research and Therapy, Travemunde, Germany, May 18-20, 2010.
211. Kuan, C.-T., Cai, M., Choi, B., **Sampson, J.H.,** Bigner, D.D.: A bispecific T cell-engaging antibody effectively eradicates EGFRvIII expressing glioblastoma multiforme. 18th International Conference on Brain Tumor Research and Therapy, Travemunde, Germany, May 18-20, 2010.
212. Archer, G.E., Mitchell, D.A., Davis, T., Readett, D., Herndon, J.E., II, Coan, A., Schmittling, R., Dechkovskaia, A., Reardon, D.A., Vredenburgh, J., Desjardins, A., Friedman, H.S., Friedman, A., Lally-Goss, D., Perry, B.A., McGehee-Norman, S., Bigner, D.D., **Sampson, J.H.:** Elimination of regulatory T-cells alters the isotype and affinity index of the antigen specific humoral immune responses following vaccination with CDX-110 in patients with EGFRvIII expressing gliomas. 18th International Conference on Brain Tumor Research and Therapy, Travemunde, Germany, May 18-20, 2010.
213. Mitchell, D.A., Archer, G.E., Dechkovskaia, A., Schmittling, R., Friedman, H.S., Lally-Goss, D., Perry, B.A., McGehee-Norman, S., McLendon, R., Bigner, D.D., **Sampson, J.H.:** Adoptive cellular therapy targeting CMV antigens in patients with glioblastoma. 18th International Conference on Brain Tumor Research and Therapy, Travemunde, Germany, May 18-20, 2010.
214. Lai, R., Recht, L.D., Reardon, D.A., Paleologos, N., Groves, M.D., Rosenfeld, M.R., Meech, S., Davis, T.A., Pavlov, D., **Sampson, J.H.:** Interim data for ACT III - phase II trial of PF-04948568 (CDX-110) in combination with temozolomide (TMZ) in patients (pts) with glioblastoma (GBM). 46th Annual Meeting, American Society of Clinical Oncology, Chicago, IL, June 4-8, 2010.
215. **Sampson J.H.:** Joe Doupe Memorial Lecture. University of Manitoba, Winnipeg, Manitoba, CA, September 8, 2011.
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 238. Meagher Lecture Visiting Professor – Ohio State University, Columbus, OH, April 30 – May 1, 2014.

239. 2nd Annual Mike and Dianne Traynor Lectureship – Labatt Brain Tumour Research Centre, Toronto, ON Canada, October 23, 2014.
240. John Green Visiting Professor – Barrow Neurological Institute Neuro-Oncology Symposium, Pheonix, AZ, November 7-9, 2014.

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Patents and invention disclosures:

1. Vaccination with Antigen-Specific, Genetically Modified Allogeneic Cells. U.S. patent US 6,503,503 B1.
2. Concurrent Chemotherapy and Immunotherapy. U.S. patent US WO 2007/056061 A2.
3. Assay for EGFRvIII Antibodies. U.S. patent US 12/699,374.
4. CMV as an Immunotherapeutic Target in Malignant Gliomas. U.S. patent. US 8,425,898.
5. Compositions, Methods, and Kits for Eliciting an Immune Response. U.S. Patent 8,425,898.
6. Compositions, Methods, and Kits for Eliciting an Immune Response. U.S. Patent 13/748,096.
7. Modified Peptide Vaccinations Against the EGFR Mutants. U.S. patent. (Pending)
8. Naked MAbs that Recognize the EGFR Mutation as Therapeutic Agents. U.S. patent. (Pending)
9. Soluble Microcrystalline Formulation of Temozolomide for Intrathecal Use. U.S. patent. (Pending)
10. RNA-transfected T cells. U.S. patent. (Pending)
11. A Super-sensitive PCR Assay for CMV. U.S. patent. (Pending)
12. Universal Cancer Stem Cell Vaccine. U.S. patent. (Pending)
13. Human use of Daclizumab in combination with vaccination. U.S. patent. (Pending)
14. Human Bispecific EGFRvIII Antibody Engaging Molecules. U.S. patent. (13/296/809; Pending)
15. Novel Oxidoreductases for Enantioselective Reactions. U.S. patent. (61/604,630; Pending)

Consultant appointments:

1. **National Institutes of Health** – Clinical Neuroimmunology and Brain Tumors (CNBT) Study Section (former) and Clinic Oncology (CONC) (current), Official Reviewer
2. **Alteris Therapeutics, Inc. (Philadelphia, PA)** – Albert J. Wong, M.D., President
3. **BrainsGate (Caesarea, Israel)** – David M. Hable, President and CEO
4. **Cytec (Malborough, MA)** – Ellen Sheets, M.D., Vice President and Chief Medical Officer
5. **MGI Pharma (Bloomington, MN)** – Edward B. Rubenstein, Senior Vice President, Medical & Scientific Affairs
6. **BD Technologies (Research Triangle Park, NC)** – Charles Goldstein, Ph.D., Vice President, Researcher and Director
7. **Celldex Therapeutics, Inc. (Philipsburg, NJ)** – Anthony S. Marucci, Vice President and Chief Financial Officer
8. **ImmunoBiosciences (Raleigh, NC)** – Chris A. Rallis, President and Chief Executive Officer
9. **NeoPharm (Waukegan, IL)** – Jeffrey W. Sherman, M.D., FACP, Chief Medical Officer, Executive Vice President
10. **BrainLab (Munich, Germany)** – Stephan Mittermier, Ph.D., Director of Pharmaceutical Solutions
11. **Immusol (San Diego, CA)** – Tsvi Goldenberg, Ph.D., Chairman and CEO
12. **Protox Therapeutics, Inc. (Vancouver, Canada)** – Fahar Merchant, Ph.D., President and CEO

13. **Medtronic, Inc. (Minneapolis, MN)** – Maura Donovan, Vice President, Therapy Research & Development, Medtronic Strategy and Innovation
14. **Antisense Pharma GmbH (Regensburg, Germany)** – Dr. Hubert Heinrichs, Chief Medical Officer

Professional awards and special recognitions:

- | | |
|----------------|--|
| 1983 | Bronze Medallion-Manitoba Schools Science Symposium |
| 1983 | Waterloo University Math Contest Award |
| 1984 | Runner-up Governor General's Award |
| 1984 | University of Manitoba Entrance Scholarship |
| 1984 | University of Winnipeg Entrance Scholarship |
| 1984 | Gold Award for Extracurricular Activities |
| 1984 | Arthur Uniacke Chipman-Saint John's College Entrance Scholarship |
| 1985 | Saint John's College Distinguished Scholar Award |
| 1986 | Phi Delta Theta National Scholar Award |
| 1987 | Saint John's College Distinguished Scholar Award |
| 1988 | Allan Bronfman Family Scholarship in Medicine |
| 1988 | Natalie Riedle Award in Medicine |
| 1988 | Award for Best B.Sc. (Med) Thesis in the Neurological Sciences |
| 1988 | Award for B.Sc. (Med) Thesis with the Most Scientific Merit |
| 1993 | Southern Neurosurgical Society Clinical Paper Award |
| 1994 – 1996 | Duke University Graduate School Fellowship |
| 1994 – 1995 | American Brain Tumor Association Fellowship |
| 1995 – 1996 | American Association of Neurological Surgeons Research Fellowship |
| 1996 | Duke Comprehensive Center Terry Seelinger Fellow in Cancer |
| 1996, 1999 | Southern Neurosurgical Society Research Paper Award |
| 1996 | American Association for Cancer Research First Annual Gerald B. Grindley Memorial Travel Award |
| 1996 | Continuing Medical Education Award in Neurosurgery |
| 1996 – 1997 | Pediatric Brain Tumor Foundation Fellowship |
| 1997 | American Association of Neurological Surgeons Research Fellowship |
| 1999 | Southern Neurosurgical Society Research Paper Award (Supervisor) |
| 1999 | American Association of Neurological Surgeons Young Clinical Investigator Award |
| 1999 | General Clinical Research Unit Clinical Associate Physician Award Nominee |
| 2000 | Atlantic Symposium on Computational Biology, Genome Information Systems Technology, Program Committee Member |
| 2006 – present | Associate Deputy Director, Preston Robert Tisch Brain Tumor Center at Duke |
| 2007 | Tug McGraw/Duke Brain Tumor Center Researcher of the Year Award |
| 2008 | Pathology Graduate School Faculty appointment |
| 2009 | Castle Connolly America's Top Doctors |
| 2009 | Duke Research Mentoring Award Nominee |
| 2009 – present | Robert H. Wilkins and Gloria Wilkins Distinguished Professor of Neurosurgery |
| 2009 – present | Who's Who in America (2011 Edition) |
| 2009 – present | Castle Connolly Top Doctor for Cancer |
| 2011 – present | Alpha Omega Alpha Medical Honor Society, Faculty Inductee, 039-F-2011-0166711 |
| 2011 | U.S. News & World Report – Top Doctors – Top 1% of Neurosurgeons |
| 2012 | SLD Industries, Inc. America's Top Surgeons |
| 2012 | Duke University, Fuqua School of Business, Fuqua Scholar Award |

2012 Duke University, Fuqua School of Business, Masters of Business Administration, HealthSector Management Scholar Award
 2012 – present Co-Director, Duke Cancer Institute, Neuro-Oncology Program
 2015 Society for Neuro-Oncology and the Section on Tumors of the AANS/CNS Abhijit Guha Award and Lecture

Organizations and participation:

1992 – present North Carolina Medical Society
 1992 – present American Medical Association
 1996 – present Society for Neuro-Oncology
 1998 – present AANS/CNS Joint Section on Neurotrauma and Critical Care
 1998 – present AANS/CNS Joint Section on Tumors
 1998 – present American Society of Clinical Oncology
 1998 – present American Association for Cancer Research, Member #53927
 1998 – present Medical Staff, Veterans Administration Hospital
 1999 – present Duke Comprehensive Cancer Center (Associate Member)
 2000 – present American Association of Neurological Surgeons
 2001 – present MENSA (100007127)
 2001 – present American College of Surgeons Oncology Group
 2002 – present Congress of Neurological Surgeons (CNS)
 2004 – present International Stereotactic Radiosurgery Society
 2004 – 2005 Radiation Therapy Oncology Group, Neurosurgery Subcommittee
 2005 – 2006 AANS/CNS Section on Tumors Executive Committee, Program Subcommittee
 2007 – present AANS Maintenance of Certification Committee
 2008 – present CNS Ad-hoc Committee on Best Practices and Ethical Standards
 2008 – present American Board of Neurological Surgery
 2008 – present The Open Neurosurgery Journal Editorial Board
 2009 – present Brain Tumor Society (Watertown, MA) – Scientific Advisory Council, Member
 2009 – present Duke University SPORE Executive Committee (Durham, NC) – Member
 2008 – present Journal of Neuro-Oncology Editorial Board
 2009 – present Duke Translational Research Institute T1 Advisory Committee
 2009 – present Duke Translational Research Institute Work Culture Committee
 2009 – present Duke Department of Radiology Chair Search Committee
 2009 – present Duke Department of Ear Nose and Throat Chair Search Committee
 2009 – present Duke Translational Medicine Institute Cell Therapy Discussion Development Committee
 2009 – present Faculty Worklife Initiative Steering Committee
 2009 – present CNS/AANS Tumor Section Executive Committee
 2009 – present Editorial Board Member – Journal of Neurosurgery
 2009 – present Associate Editor – Neurosurgery
 2009 – present Editorial Board of World Journal of Clinical Oncology
 2012 – present Voted Member of the Society of Neurological Surgeons
 2012 – present Society of University Surgeons
 2012 – present Society of Neurological Surgeons
 2012 – present Society for Neuro-Oncology Awards Committee
 2012 – present Clinical Cancer Research Editorial Board
 2012 – present The Society of Neurological Surgeons

2012 – present Walter E. Dandy Neurosurgical Society, Active Member
 2013 – present Cancer Immunology Research Editorial Board

Teaching responsibilities, including continuing education:

Scholarly Committees

McGuire, Sara	2004	Ph.D. Thesis Committee; Ph.D. Faculty, University of Iowa, Dept. of Radiation Oncology
Fecci, Peter	2004	Ph.D. Thesis Committee (Advisor); Assistant Professor of Neurosurgery, Duke University Medical Center, Director of Duke Brain Tumor Immunotherapy Program
Ellis, Michael	2005	B. Sc. (Med.) Supervisor, Phillip Yaffe Memorial Award for Best Clinical Project on Cancer, Neurosurgery Resident, University of Toronto
Dollins, Claudia	2007	Ph.D. Thesis Committee
deRidder, Gustaaf	2008	Ph.D. Thesis Committee
Choi, Bryan	2009/2013	Ph.D. Thesis Committee (Advisor)

3rd Year Medical Students

Hwang, Eugene	9/1/00 to 8/1/01	Physician (M.D.), Pediatric Hematology-Oncology Duke University
Lee, Samson	8/1/97 to 7/1/98	Physician (M.D.), Bellevue ENT Clinic, Bellevue, Washington
Wang, George	9/1/00 to 8/1/01	Physician (M.D.), Neurology and Sleep Medicine Associates, Tempe, AZ
Grossi, Peter	9/1/00 to 8/1/01	Physician (M.D.), Duke Neurosurgery of Raleigh
Hartzell, Tristan	10/7/02 to 9/7/03	Physician (M.D.), Massachusetts General Hospital
Pernell, Chris	9/6/01 to 7/26/02	Physician (M.D.), Newark, NJ
Karikari, Isaac	7/20/04 to 5/15/05	Neurosurgery Resident, Duke University
Unger, Joshua	7/20/04 to 5/15/05	Vascular Surgery Fellow, Duke University
Elongovan, Ganesh	7/20/04 to 5/15/05	Neurosurgery Resident, UCLA
Humphries III, William	7/20/04 to 5/15/05	Neurosurgery Resident, Baylor College of Medicine
Sweeney, Alison	7/20/04 to 5/15/05	Physician (M.D.), Pediatrics/Neonatology, Duke University
Vega, Eleanor	8/1/07 to 08/08	Resident, Anesthesiology and Perioperative Medicine, Oregon Health & Science University
Everson, Richard	8/1/07 to 08/08	Resident, Neurosurgery, UCLA
Ding, Dale	9/1/08 to 2009	Resident, Neurosurgery, University of Virginia

Surgical Residents

Pracyk, M.D., Ph.D., John	9/4/00 to 3/1/05	Neurological Surgeon, Iowa Spine and Brain Institute
Heimberger, M.D., Amy	10/1/97 to 10/1/99	Associate Professor of Neurosurgery, M.D. Anderson Cancer Center, University of Texas, Houston TX
Villavicencio, M.D., Alan	1/9/98 to 1/10/99	Neurosurgical Private Practice, Boulder, CO
Grossi, M.D., Peter	7/1/03 to 6/30/2004	Neurosurgery Faculty, Medical Director of Neurosciences, Duke Raleigh Hospital
Aliabadi, M.D., Hamid	6/21/07 to 6/20/08	Clinical Faculty, University of California-San Francisco
Kanaly, M.D., Charles	6/21/08 to 6/20/09	Assistant Professor of Neurosurgery, Boston University; Rhode Island Neurosurgical Institute
Reynolds, M.D., Renee	6/21/09 to 2010	Neurosurgery Chief Resident, Duke University
Mehta, M.D., Ankit	07/01/10 to 2011	Resident in Neurosurgery, Duke University
Hodges, M.D., Tiffany	06/01/12 to present	Resident in Neurosurgery, Duke University

Post-Doctoral Fellows

Mitchell, M.D., Ph.D., Duane	2/1/02 to 3/2005	Co-Director, Preston A. Wells, Jr. Center for Brain Tumor Therapy and Director of the University of Florida Brain Tumor Immunotherapy Program
Learn, Ph.D., Christopher	1/1/01 to 4/9/06	Associate Project Manager, Quintines - Oncology Division, Research Triangle Park
Heimberger, M.D., Amy	10/1/97 to 10/1/99	Professor of Neurosurgery, M.D. Anderson Cancer Center, University of Texas, Houston, TX
Pracyk, M.D., Ph.D., John	9/4/00 to 1/8/01	Neurosurgeon in Private Practice
Ochiai, M.D., Hidenobu	7/3/01 to 8/10/05	Neurosurgeon, Department of Neurosurgery University of Miyazaki, Kihara, Kiyotake Miyazaki, Japan
Okanura, M.D., Tatsunori	7/20/02 to 8/01/03	Neurosurgeon, Department of Neurosurgery Hiroshima University Medical Hospital Hiroshima, Japan
Sanchez, Ph.D., Luis	2/01/08 to Present	Assistant Professor, Duke University Medical Center
Persson, M.D., Oscar	4/01/10 to 9/01/10	MD, PhD – Lund University, Sweden
Flores, Ph.D., Catherine	1/09 to 3/13	Postdoctoral Fellow, University of Florida

Medical Scientist Training Program (M.S.T.P.) (M.D., Ph.D.)

Peter Fecci, M.D., Ph.D.	11/1/01 to 04/26/07	Assistant Professor of Neurosurgery, Duke University Medical Center, Director of Duke Brain Tumor Immunotherapy Program
Bryan Choi	1/15/08 to 2014	MSTP Graduate, Duke University

Undergraduate/Graduate Students

Crotty Alexander, Laura	7/1/96 to 8/1/99	UCSD Pulmonary & Critical Care Medicine (Associated Faculty, MD)
Ibrahimiye, Ali	1/1/00 to 5/15/02	M.D., Columbia University, Adult Cardiac Surgery
Castleberry, Kelly	6/1/95 to 6/30/96	Student, Duke University Medical Center
Keck, Sara	7/1/96 to 8/1/99	Physician (M.D.), Internal Medicine, University of California at San Francisco
Shuler, Kevin	11/1/99 to 5/30/01	Stockbroker
Gracz, Adam	10/1/06 to 12/01/07	Senior, University of North Carolina at Chapel Hill Undergraduate Research Fellow, Department of Medicine – Gastroenterology
Khoury, Shireen	1/20/05 to 2007	Medical Student George Washington University
Raja, Harish	8/29/05 to 2009	Medical Student Albert Einstein College of Medicine
Liu, Rebecca	11/07 to 2010	MSTP Program Yale University
Chua, Joshua (Singapore)	06/12 to 05/13	Medical Student Singapore
Papadimas, Evan (Singapore)	06/12 to 05/13	Medical Student Singapore
DeLong, Michael	09/12 to 05/13	Medical Student, Duke University
Kemeny, Hanna	08/12 to 03/13	Analyst, Advisory Board Company – Oncology Roundtable, Washington, D.C.
Saraswathula, Ani	04/12 to present	Undergraduate Student, Duke University
Shan, Tony	04/12 to 01/13	Undergraduate Student, Duke University
Suryadevra, Carter	05/12 to present	Undergraduate Student, Duke University
Riccione, Katherine	08/12 to present	Ph.D. Candidate, Duke University
DeLeon, Gabriel	08/11 to 03/13	Ph.D. Candidate, University of Florida
Gedeon, Patrick	04/12 to present	Ph.D. Candidate, Duke University
Pham, Christina	06/10 to 03/13	Ph.D. Candidate, University of Florida
Batich, Kristen	06/10 to present	Ph.D. Candidate, Duke University
Swartz, Adam	1/12 to present	Undergraduate Student, Duke University
Daniels, Christine	5/14 to present	Undergraduate Student, Duke University

Grant support:**ACTIVE**

- R01 NS085412-02 09/30/13-08/31/18 1.2 calendar months
 NIH \$1,710,036-total direct costs
 (Sampson) \$2,566,801-total direct and indirect costs
 EGFRvIII-targeted Bispecific T cell Engagers for brain tumors
 The SPECIFIC AIMS are to evaluate the efficacy and toxicity of an EGFRvIII BiTE in a murine GBM model and evaluate the potential mechanisms by which BiTEs penetrate the BBB, and whether they can be manipulated to enhance efficacy against infiltrative tumors.
- P01 CA154291-01A1 07/11/12-06/30/17 0.6 calendar months
 NIH/NCI \$2,555,131-total direct costs
 (Bigner/Sampson) \$3,837,552-total direct and indirect costs
 Targeting Immunosuppression Pathways to Enhance Brain Tumor Immunotherapy
 The SPECIFIC AIMS of this project are to develop a safe and effective immunotherapy for patients with GBM by targeting immunogenic tumor-specific antigens and eliminating host immunosuppression.
- P01 CA154291-01A1 07/11/12-06/30/17 0.6 calendar months
 NIH/NCI \$1,266,126-total direct costs
 (Bigner/Sampson) \$1,987,817-total direct and indirect costs
 EGFRwt and EGFRvIII Dual-Specific Immunotoxin for Glioblastoma Multiforme
 The specific aims of this proposal are to conduct a Phase I dose-escalation study of D2C7IT of recurrent GBM patients whose tumors react with D2C7. EGFRwt and EGFRvIII amplification and expression will be conducted by fluorescence in situ hybridization (FISH) quantitative PCR and immunohistochemistry. CED with computer algorithm catheter placement and delivery imaging by ¹²⁴I-labeled albumin PET and co-CED-infused gadolinium-DTPA MRI will be performed.
- R01 CA177476-02 04/05/13-3/31/18 0.6 calendar months
 NIH \$1,865,073-total direct costs
 (Sampson) \$2,894,451-total direct and indirect costs
 Brain tumors with regulatory T-cells treated with EGFRvIII-specific T-cells
 The SPECIFIC AIMS of this proposal are to evaluate the risk of toxicity, utility of TMZ, and the requirements for efficacy of a tumor-specific, EGFRvIII-targeted CAR in a syngeneic, immunocompetent, orthotopic murine GBM model and determine if CD3-CD28-4-1BB CAR vectors naturally transfect and activate T_{Regs} and dissect the role of CAR-secreted IL-2 in supporting the growth of intratumoral T_{Regs} and effector T-cells.
- ABTA/NBTS/ABCC 09/01/10 – 06/30/15 0.12 calendar months
 (Sampson) \$352,739-total direct costs
 CTLA-4 in GBM \$352,739-total direct and indirect costs
 The SPECIFIC AIM of this project is to perform a Phase I/II trial of Cytomegalovirus targeted peptide-based immunotherapy for patients with GBM.

- R01 CA124756-06A1 10/17/07-05/31/17 0.46 calendar months
 NIH/NCI \$1,167,070-total direct costs
 (Gromeier) \$1,774,865-total direct and indirect costs
 Targeting Translation Control in Malignant Glioma
 The major goals of this project are to unravel molecular mechanisms of alternative translation control via internal ribosomal entry in the normal CNS and in CNS malignancy.
- R01 NS086943-01 04/01/14-03/31/18 0.96 calendar months
 (Sampson) \$1,103,968-total direct costs
 NIH \$1,733,230-total direct and indirect costs
 Brain Tumor Targeting Using Tumor-Specific Neuroimmunology
 The SPECIFIC AIMS of this project are to evaluate whether standard of care TMZ chemotherapy and clinically relevant adjuvants enhance the immunogenicity of an IDH1 R132H– specific peptide vaccine in mice and assess if targeting IDH1 R132H with peptide vaccination is safe and enhances survival in immunocompetent mice with syngeneic orthotopic IDH1 R132H tumors. In addition, we will characterize immune presentation and recognition of IDH1 R132H in patients with IDH1 R132H–expressing tumors.
- 2R25 NS065731-06 09/01/14-06/30/19 0.24 calendar months
 (Sampson) \$80,661-total direct costs
 NIH \$87,114-total direct and indirect costs
 Research Education programs for Residents and Fellows in Neurosurgery
 The SPECIFIC AIMS are to enroll and matriculate a diverse group of residents or fellows with training in Neurology or Neurosurgery in the joint Duke-NIH Clinical Research Training Program and to expand the availability of well-designed and cost-effective clinical trials in the Divisions of Neurology and Neurosurgery and to increase resident, faculty, and patient participation in these trials.
- P50-CA190991-01 (Sampson) 09/24/14-8/31/19 3.6 calendar months
 NIH \$1,170,417-total direct costs
 Duke SPORE in Brain Cancer \$1,837,555-total direct and indirect costs
 The specific aims of this project are to determine if the cellular populations responding to IDH1R132H-specific peptide (PEPIDH1M) vaccination and optimize the immunogenicity and efficacy of PEPIDH1M. In addition, all studies of a PEPIDH1M vaccine sufficient for an IND application to the FDA. A pilot clinical trial will be conducted to assess safety and immunogenicity of PEPIDH1M in patients with histologically-proven, recurrent and resectable IDH1R132H-expressing grade II gliomas.
- U01 NS090284-01 12/01/14-11/30/19 2.4 calendar months
 (Sampson) \$4,290,343-total direct costs
 NIH \$5,626,726-total direct and indirect costs
 Human EGFRvIII-specific BiTE for the treatment of Glioblastoma
 The specific aims of this project are to validate the efficacy of our fully human lead construct, hEGFRvIII-CD3 BiTE and optimize protocols for Current Good Manufacturing Practice (cGMP) manufacturing of hEGFRvIII-CD3 BiTE and produce a sufficient quantity for IND-enabling studies
 We will also define the pharmacokinetics of cGMP hEGFRvIII-CD3 BiTE, perform formal toxicity and stability testing for IND submission and assemble the necessary documents and file an IND application for phase I trial of hEGFRvIII-CD3 BiTE for the treatment of recurrent GBM.

P30 CA014236-41 01/01/15-12/31/19 1.2 calendar months
 (Kastan) \$388,114-total direct costs
 NIH \$609,339-total direct and indirect costs
 Co-Program Leaders- Duke Comprehensive Cancer Core Grant
 Goal: Make preeminent contributions to understanding, preventing, detecting, diagnosing and treating cancer through laboratory investigation, clinical research, cancer prevention and control, research, patient care, education and interaction with individuals and organizations outside the University.

Pediatric Brain Tumor Foundation 01/01/15-12/31/17 0.12 calendar months
 (Sampson) \$400,000-total direct project costs
 \$400,000 total direct and indirect project costs
 Development of a peptide vaccine for diffuse intrinsic pontine glioma
 The specific aims are assessing the potential of a K27M tumor mutation-specific peptide vaccine as a treatment for patients with tumors containing K27M mutations. The proposal is to develop a functional, murine homologue of the human H3.3K27M mutant histone and demonstrate mutation-specific immunogenicity of these peptides in murine and human DIPG models.

Twin Star Medical 01/01/15-12/31/16 0.6 calendar months
 (Sampson) \$113,325-total direct costs
 \$177,919-total direct and indirect costs
 Catheter and planning method for large volume intraparenchymal brain therapies
 The SPECIFIC AIMS are to construct and validate microporous hollow fiber (MHFC) catheters that are suitable for humans and to determine infusate distribution of brain tumors treated intratumorally.

R42-CA153845-01 04/01/15-03/31/17 1.2 calendar months
 (Sampson) \$950,171-total direct costs
 NIH \$1,136,268-total direct and indirect costs
 Annias Immunotherapeutics, Inc. (Prime)
 The specific aims of this project are to to conduct a pilot clinical trial demonstrating the feasibility and safety of PEP-CMV vaccination in tetanus conditioned patients with newly-diagnosed GBM while determining whether standard or dose-intensified TMZ is the optimal regimen to be used in conjunction with vaccination. In addition we will determine immunogenicity of the PEP-CMV vaccine platform and characterize the cellular and humoral immune responses produced in both patient cohorts.

PENDING

1R35-CA197264-01 (Bigner) 7/1/15-6/30/22 0.36 calendar months
 NIH \$598,474-total direct costs
 \$939,604-total direct and indirect costs
 Oncolytic Poliovirus, Immunotoxin, and Checkpoint Inhibitor Therapy of Gliomas
 The goal of this project is to improve high quality survival by treating with a tumor killing poliovirus and bacterial toxin and by strengthening the immune system

(Sampson) 7/1/15-6/30/20 1.2 calendar months
 University of Florida \$248,796-total direct costs
 \$390,609-total direct and indirect costs
 Efficacy of dendritic cell vaccines targeting CMV antigens in glioblastoma

The specific aim is to conduct a prospective, randomized, double-blinded, and placebo-controlled, phase II clinical trial of CMV pp65 RNA-pulsed dendritic cell vaccines plus GM-CSF administered during recovery from dose-intensified adjuvant temozolomide in patients with newly-diagnosed GBM.

COMPLETED

Kinetics Foundation (Sampson)	07/01/13-12/31/14 \$227,273-total direct costs \$250,000-total direct and indirect costs	0.12 calendar months
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John Livingstone Study of Precision Drug Delivery

The goal of this project is to test enhanced planning and delivery methods that, if successfully validated, may be carried over to Convection Enhanced Delivery in other serious neurodegenerative diseases such as Parkinson's.

Pediatric Brain Tumor Foundation (Bigner/Sampson)	04/01/14-12/31/14 \$200,000-total direct project costs \$200,000 total direct and indirect project costs	0.12 calendar months
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Development of a peptide vaccine for diffuse intrinsic pontine glioma

The SPECIFIC AIMS are assessing the potential of a K27M tumor mutation-specific peptide vaccine as a treatment for patients with tumors containing K27M mutations. The proposal is to develop a functional, murine homologue of the human H3.3K27M mutant histone and demonstrate mutation-specific immunogenicity of these peptides in murine and human DIPG models.

The Cure Starts Now (Becher)	11/01/13-10/31/14 \$85,394 total direct costs \$85,394-total direct and indirect costs	0.12 calendar months
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Development of peptide vaccine for diffuse intrinsic pontine glioma

The SPECIFIC AIMS are assessing the potential of a K27M tumor mutation-specific peptide vaccine as a treatment for patients with tumors containing K27M mutations. The proposal is to develop a functional, murine homologue of the human H3.3K27M mutant histone and demonstrate mutation-specific immunogenicity of these peptides in murine and human DIPG models.

(Sampson) Annias Immunotherapeutics Agrmnt	01/01/13-08/01/14 \$82,824-total direct costs \$138,220-total direct and indirect costs	0.12 calendar months
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CMV Therapeutic Vaccine for the Treatment of Glioblastoma Multiforme

The overall objective of this Phase I study is to test the feasibility of PEP-CMV formulations for the generation of T cell responses clinical study of PEP-CMV vaccines in patients with newly-diagnosed GBM.

Pediatric Brain Tumor Foundation (Bigner/Sampson) Dendritic Cell Vaccines Targeting Medulloblastoma and Medulloblastoma Stem Cells	04/01/09-03/31/14 \$369,000-total direct project costs \$369,000 total direct and indirect project costs	0.18 calendar months
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The SPECIFIC AIMS are to determine if the capacity for DCs loaded with RNA libraries enriched for MB BTSC antigens to elicit cellular immune responses capable of preferentially killing CD133+ MB BTSC in vivo using a SCID/NOD mouse xenograft model.

Pediatric Brain Tumor Foundation (Bigner)	04/01/09-03/31/14	0.18 calendar months
	\$615,000-total direct project costs	
Targeting Pediatric Central Nervous System Cancer Stem Cells	\$615,000-total direct and indirect project costs	

The SPECIFIC AIMS are to identify antigens expressed in CD133+ and CD15+ brain tumor stem cells (BTSCs) in pediatric brain tumors and develop adoptive T cell strategies targeting these antigens.

(Sampson)	01/30/13-03/31/14	0.12 calendar months
Miami Brain Tumor Coalition	\$75,544-total direct project costs	
	\$75,544-total direct and indirect project costs	

EGFRvIII-targeted Bispecific Antibody Therapy for Malignant Glioma

In this project, we will create tandem bispecific molecules that will engage T cell via the CD3 complex and the CD28 costimulatory receptor, activating them against cells expressing the EGFRvIII tumor specific antigen. We will demonstrate the specificity of BiTE-mediated toxicity against EGFRvIII-expressing GBM cell lines in vivo against EGFRvIII-expressing tumors.

P50 NS020023-30 NIH/NINDS	06/15/09-01/31/14	1.5 calendar months
(Bigner/Sampson)	\$780,469-total direct project costs	
	\$1,217,531-total direct and indirect project costs	

SRC on Primary and Metastatic Tumors of the CNS (Project 2)

The SPECIFIC AIMS are to develop a mechanistic understanding of the effects of TMZ on the induction and maintenance of antitumor immunity will be explored in relevant murine astrocytoma models in order to rationally develop enhanced immunotherapeutic treatments for patients with GBM.

P50 NS020023-30 NIH/NINDS	06/15/09-01/31/14	0.24 calendar months
(Bigner/Sampson)	\$2,164,884-total direct project costs	
	\$3,377,219-total direct and indirect project costs	

SRC on Primary and Metastatic Tumors of the CNS (Project 3)

The hypothesis of this project is that innovative therapeutics, appropriate clinical trial eligibility, rigorous target validation, and enhanced delivery strategies will improve overall survival and quality of life for patients with malignant glioma.

P50 NS020023-30 NIH/NINDS	06/15/09-01/31/14	0.6 calendar months
(Bigner/Sampson)	\$454,093-total direct core costs	
	\$708,385-total direct and indirect core costs	

SRC on Primary and Metastatic Tumors of the CNS (Core A)

This Core will provide the statistical analysis to ensure proper design and interpretation of all experiments performed in this SRC. Experiments performed in this Core will ensure the quality and safety of all reagents produced within this SRC before clinical use. Finally, this Core provides the infrastructure to collect clinical data and to properly catalog, store and retrieve valuable clinical specimens.

P50 NS020023-30 NIH/NINDS (Bigner/Sampson) SRC on Primary and Metastatic Tumors of the CNS (Core C)	06/15/09-01/31/14 \$312,207-total direct project costs \$487,042-total direct and indirect project costs	0.6 calendar months
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The Administrative Core is necessary to coordinate all of the activities in the projects, all of which are designed to develop new and more effective and less toxic malignant brain tumor treatments. In addition, a specially trained technician is necessary to provide the necessary solutions and ultraclean glassware for the experiments proposed.

Ben and Catherine Ivy Foundation (Sampson)	01/01/10-08/31/13 \$2,247,316-total direct costs \$2,452,367-total direct and indirect costs	0.6 calendar months
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Using Genomic Signatures to Predict Combinational Therapy for GBM
The SPECIFIC AIMS are to make use of patterns of pathway activity in GBM to identify opportunities for combination therapy in patients with GBM.

R25 NS065731-05 NIH (Sampson)	03/01/08-06/30/14 \$269,238-total direct costs \$21,539-total direct and indirect costs	0.12 calendar months
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Research Education programs for Residents and Fellows in Neurosurgery
The goal of this project is to ensure that a diverse group of residents and fellows in the clinical neurosciences become highly-trained clinician-scientists with sufficient knowledge of clinical investigation principles and regulations to become competent, responsible, and independently-funded investigators capable of translating basic discoveries into clinical practice.

R01 CA135272-05 NIH/NCI (Sampson)	08/01/08-5/31/13 \$1,290,571-total direct costs \$2,013,291-total direct and indirect costs	1.2 calendar months
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RNA-based Immunotherapy Targeting Antigens Unique to Brain Tumor Stem Cells
The SPECIFIC AIMS of this project are to compare the safety and efficacy of vaccination with DCs pulsed with mRNA derived from CD133(+) brain tumor stem cells (BTSCs).

The Biomarker Factory (Sampson) CMV as a biomarker in glioblastoma	06/01/11-05/31/2013 \$280,217-total direct costs \$358,677-total direct and indirect costs	0.6 calendar months
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The SPECIFIC AIM of this project is to determine if the measurement of CMV DNA levels and the assessment of CMV-specific polyfunctional immune responses can serve as useful prognostic and predictive biomarkers in patients with GBM.

R21 NS067980-02 NIH/NINDS (Sampson)	07/01/10-06/30/12 \$275,000-total direct costs \$431,750-total direct and indirect costs	
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Pre-clinical Translation of Regulatory T-cell Inhibition in Brain Tumors
The SPECIFIC AIMS of this project were to test that during hematopoietic recovery from treatment-induced lymphopenia the generation of de novo TRegs from adoptively transferred antitumor T-cells can be selectively inhibited by anti-IL2R α antibodies leading to enhanced antitumor immunity without induction of limiting autoimmunity.

R21 NS068057-02 07/01/10–06/30/12
 NIH/NINDS \$272,500-total direct costs
 (Sampson) \$427,825-total direct and indirect costs
 Neuroimmunology of Vaccines in Adoptive T-cell Therapy for Brain Tumors
 The SPECIFIC AIMS of this project were to evaluate the combination of adoptive cellular therapy and TTRNA-loaded DC vaccines during recovery from serial lymphodepletion with TMZ in a murine brain tumor model prior to clinical studies in humans.

R21 NS067975-02 09/30/09-8/31/11
 NIH/NINDS \$275,000- total direct costs
 (Sampson) \$428,508-total direct and indirect costs
 Gene Targeted Therapy of Brain Tumors
 The SPECIFIC AIMS of this proposal are to evaluate the ability of existing genomic signatures to predict responsiveness to promising single agent small molecule therapeutics in human GBM xenografts.

R01 CA135272-02S1 09/30/09-09/29/11
 NIH/NCI (ARRA, Competitive supplement) \$261,000-total direct costs
 (Sampson) \$407,160-total direct and indirect costs
 RNA-Based Immunotherapy Targeting Antigens Unique to Brain Tumor Stem Cells
 The SPECIFIC AIMS of this proposal were to examine the impact of temozolomide treatment on the induction of immunologic responses directed against CD133+ brain tumor stem cell antigens.

R21 CA1352891-02S1 09/30/09-12/31/09
 NIH/NCI (ARRA, Competitive supplement) \$50,000-total direct costs
 (Sampson) \$78,000-total direct and indirect costs
 Effect on IL-2R Antibody on Regulatory T-cells in Patients with Malignant Gliomas
 The SPECIFIC AIMS of this proposal were to determine if serial administration of daclizumab infusion persistently inhibit the functional and quantitative recovery of TRegs and further enhance the magnitude of EGFRvIII-specific vaccine induced immune responses after therapeutic TMZ-induced lymphopenia in patients with newly-diagnosed GBM undergoing standard radiation and TMZ chemotherapy.

American Association of Neurological Surgeons 06/01/08–05/31/09
 (Sampson) \$50,000-total direct costs
 Molecular imaging of gene expression and cellular trafficking during adoptive immunotherapy in patients with newly diagnosed GBM. The SPECIFIC AIMS of this project was to determine if the sensitivity and specificity of [18F]FHBG PET/CT imaging for measuring the in vivo migration and duration of gene expression in RNA-modified T cells in patients with malignant gliomas is effected by the immunologic and clinical responses to adoptive cellular immunotherapy.

American Brain Tumor Association 07/01/08-06/30/09
 (Sampson) \$50,000-total direct costs
 Imaging RNA-modified T cells in Patients with GBM
 The SPECIFIC AIMS of this project were to evaluate the duration of transgene expression and intratumoral localization of RNA-modified T cells in an orthotopic malignant glioma model using MicoPET imaging and the HSV-tk dependent PET analogue [18F]FHBG.

<p>The Goldhirsh Foundation (Sampson) Predicting oncogenic pathways driving resistance to an EGFRvIII -targeted vaccine using signaling pathway gene signatures The SPECIFIC AIMS of this project were to analyze oncogenic pathway activity in samples derived from patients before EGFRvIII-targeted vaccination and at recurrence from ongoing Phase II and III trials to identify the dominant pathway patterns present before vaccination and determine if these patterns persist after vaccination or change to new patterns</p>	<p>07/01/08–06/30/11 \$545,454-total direct costs \$600,000-total direct and indirect costs</p>
<p>P50 CA108786-05 (Sampson) CTLA-4 in GBM The SPECIFIC AIMS of this project was to do immunologic monitoring for a trial of CTLA-4 blockade in patients with newly diagnosed GBM.</p>	<p>09/01/07–8/31/10 \$32,051-total direct costs \$49,679-total direct and indirect costs</p>
<p>R21 CA132891-02 NIH/NCI (Sampson) Effect on IL-2R Antibody on Regulatory T-cells in Patients with Malignant Gliomas The SPECIFIC AIMS of this project were to determine if daclizumab infusion enhances vaccine response in patients with GBM undergoing standard radiation and TMZ chemotherapy and vaccination with an EGFRvIII-specific peptide.</p>	<p>12/01/07–11/30/09 \$275,000-total direct costs \$418,495-total direct and indirect costs</p>
<p>The Brain Tumor Society (Sampson) Inhibition of Regulatory T cell Recovery with an IL-2 Receptor Blocking Antibody The SPECIFIC AIMS of this proposal were to determine if an IL-2Rα-blocking MAb inhibits the functional recovery of T_{Regs} after therapeutic TMZ-induced lymphopenia in patients with GBM.</p>	<p>09/01/07–8/31/09 \$200,000-total direct costs</p>
<p>Southeastern brain Tumor Foundation (Sampson) Effect of CTLA-4 Blockade on Immune Phenotype and Tumor Response in GBM The SPECIFIC AIMS of this project were to determine the MTD and DLT of systemically delivered CTLA-4 blocking Mab (MDX-010) in patients with recurrent GBM previously vaccinated with and EGFRvIII specific peptide.</p>	<p>11/12/07–11/11/08 \$75,000-total direct costs</p>
<p>Brain Tumor Society (Sampson) Reconstitution of Anti-tumor Immunity in Lymphopenic Hosts with malignant Gliomas The SPECIFIC AIMS of this project were to determine the capacity of DC vaccination coupled with autologous lymphocyte transfer (DC+ALT) to generate and maintain high levels of antigen-specific T cells in hosts recovering from treatment-induced lymphopenia.</p>	<p>10/01/05–09/30/07 \$199,995-total direct costs</p>
<p>Johnson and Johnson (Sampson) Determination of the efficacy of two</p>	<p>07/01/06-06/30/07 \$33,560-total direct costs \$52,018-total direct and indirect costs</p>

investigational treatments against intracranial MCF7/18 cells

The SPECIFIC AIMS of this proposal were to test the therapeutic efficacy of tyrosing kinase inhibitors for the treatment of intracranial breast carcinoma.

Accelerate Brain Cancer Cure
(Sampson) 09/01/06-08/31/07
\$193,665-total direct costs

Adoptive Transfer of CMV Specific T-cells for the
Treatment of Patients with Malignant Glioma

The SPECIFIC AIMS of this project were to enhance CMV pp65-specific immune responses in patients with GBM through the elimination or reduction of immunosuppressive CD4+CD25+ TRegs without inducing autoimmune toxicity.

Neopharm 02/01/04-12/31/06
(Sampson) \$293,744-total direct costs

NeoPharm IL 13PEI-301 study \$366,805-total direct and indirect costs

“Phase III Randomized Evaluation of Convection Enhanced Delivery of IL13-PE38QQR Compared to Gliadel Wafer with Survival Endpoint in Glioblastoma Multiforme Patients at First Recurrence”

The SPECIFIC AIMS of this project were to compare the overall extension of the life of patients who receive study drug (IL13PEI-301) compared to patients who received Gliadel Wafer for glioblastoma multiforme following surgical resection.

Accelerate Brain Cancer Cure 09/01/03-08/31/05
(Sampson) \$100,000-total direct costs

Development of a Clinical Dendritic Cell Vaccine

Targeting Human Cytomegalovirus Antigens Expressed Within High-Grade Malignant Astrocytomas
The SPECIFIC AIMS of this project was to evaluate methods to improve immunotherapy using RNA-modified dendritic cells (DCs) and examine the sagery of active immunization of patients with high-grade gliomas using RNA-loaded DCs.

Neopharm 07/01/03-06/30/04
(Sampson) \$357,193-total direct costs

Pilot Imaging Study to Assess the \$435,084-total direct and indirect costs

Distribution of IL13-PE38QQR Cytotoxin Infusions in patients with Recurrent, Resectable,
Supratentorial Malignant Glioma

The SPECIFIC AIMS of this project were to were to conduct a projected randomized trial of this cytotoxin in recurrent, resectable, supratentorial malignant gliomas.

American Brain Tumor Association 07/01/03-06/30/05
(Sampson) \$70,000-total direct costs

Molecular Analysis of Mutant EGFRvIII-expressing Tumors Following Treatment with the Tumor-Specific Monoclonal Antibody Y10

The SPECIFIC AIM of this project were to perform a molecular analysis of tumors, following treatment with an EGFRvIII-specific antibody to determine mechanisms of resistance.

- R01 CA097222-05 09/30/02–08/31/08
 NIH/NCI \$988,937-total direct costs
 (Sampson) \$1,509,827-total direct and indirect costs
 Dendritic Cell Immunotherapy of Malignant Gliomas
 The SPECIFIC AIMS of this project were to conduct a Phase I active immunotherapy trial in patients with malignant gliomas using DCs pulsed with a KLH conjugate of a peptide spanning the tumor-specific EGFRvIII mutation.
- R01 CA097611-05 09/30/02–08/31/08
 NIH/NCI \$982,499-total direct costs
 (Sampson) \$1,518,086-total direct and indirect costs
 Intracerebral Infusion of Radiolabeled Specific Antibody
 The SPECIFIC AIMS of this project were to optimize delivery of ¹³¹I-labeled and ²¹¹At-labeled anti-tenascin monoclonal antibodies infused intracerebrally by convection-enhanced delivery.
- Brain Tumor Society 10/01/02–09/30/04
 (Sampson) \$200,000-total direct costs
 Antiangiogenic Immunotherapy of Malignant Gliomas
 The SPECIFIC AIMS of this project were to evaluate and compare the safety and efficacy of RNA-pulsed, dendritic cell-based immunotherapy strategies targeting genes over-expressed in the endothelium of a malignant murine brain tumor model and to validate MRI-based techniques as a potential surrogate marker for assessing anti-angiogenetic therapy.
- Pediatric Brain Tumor Foundation 09/21/02–09/20/04
 (Sampson) \$99,997-total direct costs
 Anti-Angiogenic Immunotherapy for Malignant Brain Tumors
 The SPECIFIC AIMS of this project were to evaluate the potential of anti-angiogenic immunotherapy using dendritic cells targeted with angiogenic antigens.
- Accelerate Brain Cancer Cure 06/01/02-05/30/03
 (Sampson) \$75,000-total direct costs
 Modeling & Perfecting Convection-Enhanced Delivery
 of an EGFR-specific Immunotoxin for the Treatment of Malignant Brain Tumors
 The SPECIFIC AIMS of this project were to enhance the delivery of various agents intracerebrally by providing an integrated software system for guiding catheter placement and selecting infusion parameters.
- Accelerate Brain Cancer Cure 09/01/01-08/31/02
 (Sampson) \$50,000-total direct costs
 Development of a clinical vaccine for malignant gliomas by the in vitro assessment of the immunologic relevance of overexpressed Genes
 The SPECIFIC AIMS of this project were to select antigenic targets for use in a clinical vaccine from genes overexpressed in malignant gliomas by testing the ability of dendritic cells transfected with genes identified by serial analysis of gene expression to induce antigen-specific cytotoxicity in vitro.

IVAX Laboratories 06/01/01-05/31/02
 (Sampson) \$301,576-total direct costs
 Phase I/II Clinical Study of a Recombinant Chimeric Protein Composed of Transforming Growth Factor and a Mutated Form for the Treatment of Malignant Brain Tumors \$376,970-total direct and indirect costs
 The SPECIFIC AIMS of this project were to conduct a single arm trial of an EGFR-specific immunotoxin in patients with malignant gliomas.

K23 RR016065 07/01/00-11/30/03
 NIH/NCRR \$396,088-total direct costs
 (Sampson) \$426,959-total direct and indirect costs
 Mentored Patient Oriented Research Career Development Award
 The SPECIFIC AIMS of this award were to develop Dr. Sampson as a physician-scientist.

Sidney Kimmel Foundation for Cancer 07/01/00-06/30/02
 Research \$170,000-total direct costs
 (Sampson) \$195,500-total direct and indirect costs
 Immunotherapeutic Targeting of a Tumor-Specific Epidermal Growth Receptor Mutation with Unarmed Monoclonal Antibodies
 The SPECIFIC AIMS of this project were to assess the toxicity and efficacy of treating EGFRvIII-expressing tumors with unarmed monoclonal antibody.

R25 NS065731-01 07/01/09-06/30/10
 NIH \$47,506-total direct costs for Fellow
 (Sampson/Reynolds) \$51,306-total direct and indirect costs for Fellow
 NINDS Research Education Programs for Residents and Fellows in Neurosurgery
 The SPECIFIC AIMS were to enroll and matriculate a diverse group of residents or fellows with training in Neurology or Neurosurgery in the joint Duke-NIH Clinical Research Training Program and to expand the availability of well-designed and cost-effective clinical trials in the Divisions of Neurology and Neurosurgery and to increase resident, faculty, and patient participation in these trials.

R25-NS065731-02S1 07/01/10-06/30/11
 NIH \$50,446-total direct costs for Fellow
 (Sampson/Mehta) \$54,482-total direct and indirect costs for Fellow
 NINDS Research Education Programs for Residents and Fellows in Neurosurgery
 The SPECIFIC AIMS of this project were to translate a neuroradiology technology, Velocity AI™, towards clinical practice.

R25 NS065731-03S1 07/01/11-06/30/12
 NIH \$49,906-total direct costs for Fellow
 (Sampson/Choi) \$53,898-total direct and indirect costs for Fellow
 NINDS Research Education Programs for Residents and Fellows in Neurosurgery
 The SPECIFIC AIM of this project was to determine the feasibility of recording and using intrinsic brain rhythms as a signal to regulate closed-loop DBS.

R21 NS063337-02 09/15/09-08/31/12
NIH \$275,000-total direct costs
(Gromeier/Sampson) \$429,000-total direct and indirect costs
Enterovirus Vectors with Respiratory Tropism for Cancer Immunotherapy
The SPECIFIC AIMS of this proposal were to test CAV21 vaccine vectors targeting VEGF receptor tyrosine kinases and investigate the immune and tissue responses to CAV21-vector mediated vaccination against VEGF receptor tyrosine kinases.

P50 CA108786-05 09/01/04-08/31/10
NIH/NCI \$653,355-total direct costs
(Bigner/Sampson) \$1,012,700-total direct and indirect costs
SPORE in Brain Cancer
The major goal of the research projects was to advance knowledge of brain tumor biology and etiology and to translate these into clinical protocols that represent significant and novel advances in the management of these therapeutically intractable tumors.

Varian Medical Systems, Inc. 08/05/09-08/05/12
(Kirkpatrick/Sampson) \$68,826-total direct costs
Defining Optimal PTV in \$107,368-total direct and indirect costs
Brain Metastases SRS
The SPECIFIC AIMS were to determine the optimal planning target volume (PTV) for patients undergoing image-guided stereotactic radiosurgery (IGRS) of brain metastases.

Areas of research interests:

The development and application of immunotherapy and drug delivery to malignant tumors of the brain.

Clinical activity:

Academic neurosurgery with an emphasis in neuro-oncology, radiosurgery, translation drug development, and clinical trial design and execution.

Participation in academic and administrative activities of the University and Medical Center:

Chief, Division of Neurosurgery, Department of Surgery
Associate Director, Preston Robert Tisch Brain Tumor Center at Duke
Member, Duke Comprehensive Cancer Center and Duke Cancer Institute
Medical Staff, Veterans Administration Hospital
Search Committee for ENT Chair
Search Committee for Radiology Chair
Faculty Worklife Initiative Steering Committee
Neurosurgery Site-Based Research Chair
K12 Review Committee
Chancellor's Innovation Council Committee
Co-Chair of Duke University Science Council
Science Council Representative to Chancellors' Academic Cabinet
Search Committee for Orthopedic Surgery Chair