

DAVID "CORY" ADAMSON

CURRICULUM VITAE

Date Prepared: June 2015

Name (complete with degrees): David Cory Adamson, M.D., Ph.D., M.P.H., M.H.Sc., FAANS, FACS

Primary academic appointment: Department of Neurosurgery

Present academic rank and title: Associate Professor of Surgery *with tenure*

Date and rank of first faculty appointment: 12/1/2005, Assist Professor of Surgery (Track II), Duke

Medical licensure: North Carolina License

Date of License (Month/Day/Year): 07/22/2005

Specialty certification(s) and dates (Month/Day/Year): American Board of Neurosurgery (6/9/09)

Place (include city/state/country): Decatur, GA, USA

Citizen of: USA

Visa Status (if applicable): N/A

<u>Education:</u>	<u>Institution</u>	<u>Date (Year)</u>	<u>Degree</u>
High School	Dadeville High School Dadeville, AL	1987	College Prep. Diploma (<i>Valedictorian</i>)
College	Bridgewater College Bridgewater, VA	1991	B.S. (biology, chemistry) (<i>summa cum laude</i>)
Graduate School	Johns Hopkins University Baltimore, MD	1998	M.D.
Graduate School	Johns Hopkins University Baltimore, MD	1998	Ph.D. (neuroscience)
Graduate School	Johns Hopkins University Baltimore, MD	1999	M.P.H. (biostatistics)
Graduate School	Duke University Durham, NC	2007	M.H.Sc. (clinical trials)

Scholarly societies:

Lambda Society (undergraduate academic honor society)

Alpha Chi (undergraduate academic honor society)

Omicron Delta Kappa (undergraduate leadership honor society)

Alpha Omega Alpha (medical honor society)

Professional training and academic career:

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
Duke University, Durham, NC	General Surgery Intern	1999-2000
Duke University, Durham, NC	Neurosurgery Resident	2000-2003
Duke University, Durham, NC	Neurosurgery Chief Resident	2003-2004
Duke University, Durham, NC	Neuro-oncology Fellowship	2004-2005
Duke University, Durham, NC	Assistant Professor of Neurosurgery	2005-2010
Duke University, Durham, NC	Assistant Professor in Neurobiology	2005-2010
Duke University, Durham, NC	Director, Molec Neuro-oncology Lab	2005-2014
Durham VAMC, Durham, NC	Chief of Neurosurgery Service	2005-2014
Duke University, Durham, NC	Associate Residency Program Director Division of Neurosurgery	2010-2014
Duke University, Durham, NC	Associate Professor of Neurosurgery	2010-2013
Duke University, Durham, NC	Associate Professor in Neurobiology	2010-2013
Duke University, Durham, NC	Associate Professor of Neurosurgery <i>with Tenure</i>	2013-2014
Emory University, Atlanta, GA	Director, Molec Neuro-oncology Lab	2015-present
Atlanta VAMC, Atlanta, GA	Chief of Neurosurgery Service	2015-present
Emory University, Atlanta, GA	Associate Professor of Neurosurgery <i>with Tenure</i>	2015-present

Publications:**1. Refereed journals:**

1. **Adamson DC**, Dawson TM, Zink MC, Clements JE, Dawson VL. Neurovirulent simian immunodeficiency virus infection induces neuronal, endothelial and glial apoptosis. *Mol. Med.* 2(4):417-28, July 1996. PMID: 8827712.
2. **Adamson DC**, Wildemann B, Sasaki M, Glass JD, McArthur JC, Christov VI, Dawson TM, Dawson VL. Immunologic NO synthase: elevation in severe AIDS dementia and induction by HIV-1 coat protein, gp41. *Science.* 274(5294):1917-21, December 1996. PMID: 8943206.
3. **Adamson DC**. Mechanisms of central nervous system neurotoxicity in human and simian immunodeficiency virus infection. Ph.D. Dissertation. The Johns Hopkins University School of Medicine Department of Neuroscience, May 1998.
4. **Adamson DC**, Kopnisky KL, Dawson TM, Dawson VL. Mechanisms and structural determinants of HIV-1 coat protein, gp41-induced neurotoxicity. *J. Neurosci.* 19(1):64-71, January 1999. PMID: 9870939.
5. **Adamson DC**, McArthur JC, Dawson TM, Dawson VL. Rate and severity of HIV-Associated Dementia: correlation with gp41, iNOS and macrophage/microglial activation. *Mol. Med.* 5(2):98-109, January 1999. PMID: PMC2230416.
6. Samdani AF, Kuchner EB, Rhines L, **Adamson DC**, Lawson C, Tyler B, Brem H, Dawson VL, Dawson TM. Astroglia induce cytotoxic effects on brain tumors via a nitric oxide-dependent pathway both in vitro and in vivo. *Neurosurgery.* 54(5):1231-8, May 2004. PMID: 15113479.
7. **Adamson DC**, Bulsara KR, Bronec PR. Spontaneous cervical epidural hematomas: Case report and literature review. *Surgical Neurology.* 62(2):156-159, August 2004. PMID: 15261513.
8. **Adamson DC**, Cummings TJ, Friedman AH. Malignant peripheral nerve sheath tumor of the spine after radiation therapy for Hodgkin's lymphoma: Two case reports and literature review. *Clin Neuropath.* 23(5):245-255, September 2004. PMID: 15581029.
9. Di CH*, Liao S*, **Adamson DC***, Parrett TJ, Broderick DK, Shi Q, Lengauer C, Cummins JM, Velculescu VE, Fu J, McLendon RE, Bigner DD, Yan H. Identification of OTX2 as a medulloblastoma oncogene whose product can be targeted by all-trans retinoic acid. *Cancer Res.* 65(3):919-924, February 2005. *contributed equally. PMID: 15705891.
10. **Adamson DC**, Dimitrov DF, Bronec PR. Upward transtentorial herniation, hydrocephalus and cerebellar edema in a case of hypertensive encephalopathy. *The Neurologist.* 11(3):171-5, May 2005. PMID: 15860139.
11. **Adamson DC**, Cummings TJ, Friedman AH. Myxopapillary ependymoma and fatty filum in an adult with tethered cord syndrome: a shared embryological lesion? *Neurosurgery.* 57(2):E373, August 2005. PMID: 16094143.
12. Kanaly CW, Selznick LA, Cummings TJ, **Adamson DC**. Cerebellar cryptococcoma in a patient with undiagnosed sarcoidosis. *Neurosurgery.* 60(3):E571; March 2007. PMID: 17327765.
13. Kanu OO, Hughes B, Di C, Lin N, Fu J, Bigner DD, Yan H, **Adamson DC**. Glioblastoma multiforme oncogenomics and signaling pathways. *Clin Med: Oncology.* 8(3):39-52, April 2009. PMID: 19777070.
14. Kanu OO, Mehta AI, Di C, Lin N, Bortoff K, Bigner DD, Yan H, **Adamson DC**. Glioblastoma multiforme: a review of therapeutic targets. *Expert Opin Ther Targets.* 13(6):1-18, June 2009. PMID: 19409033.
15. **Adamson DC**, Kanu OO, Mehta AI, Di C, Lin N, Mattox AK, Bigner DD. Glioblastoma multiforme: a review of where we have been and where we are going. *Expert Opinion on Investigation Drugs.* 18(8):1061-83, August 2009. PMID: 19555299.

16. **Adamson DC**, Shi Q, Wortham MJ, Northcott PA, Di C, Duncan CG, McLendon RE, Bigner DD, Taylor M, Yan H. OTX2 is critical for the maintenance and progression of Shh-independent medulloblastomas. *Cancer Res.* 70(1):181-91, January 2010. PMID: 20028867.
17. West KL, **Adamson DC**, Hoffman M. Clinical utility of the screening coagulation tests: treating the patient instead of the laboratory value. *Transfusion Medicine.* 54(2):1-16, February 2010.
18. Mattox AK, Mehta AI, Grossi PM, Cummings TJ, **Adamson DC**. Response of malignant scalp dermatofibrosarcoma to presurgical targeted growth factor inhibition. *J Neurosurg.* 112(5):965-77, May 2010. PMID: 19681684.
19. Li J, Di C, Mattox AK, Wu L, **Adamson DC**. The future role of personalized medicine in the treatment of glioblastoma multiforme. *Pharmacogen and Pers Med.* 3(1):111-127, August 2010. PMID: 23226047.
20. Mattox A, Choi JD, Leith-Gray L, Grant GA, **Adamson DC**. Guidelines for the management of obstructive hydrocephalus from suprasellar-prepontine arachnoid cysts using endoscopic third ventriculocystocisternostomy. *Surg Innov.* 17(3):206-16, September 2010. PMID: 20688773.
21. Di C, Mattox AK, Harward S, **Adamson DC**. Emerging therapeutic targets and agents for glioblastoma migrating cells. *Anticancer Agents Med Chem.* 10(7):543-55, September 2010. PMID: 20950259.
22. **Adamson DC**. Treatment of simultaneous occurrence of parasagittal meningioma and invasive prolactinoma. *Congress Quarterly.* 11(4):33, October 2010.
23. **Adamson DC**, Rasheed BA, McLendon RE, Bigner DD. Central Nervous System. *Cancer Biomark.* 9(1):193-210, December 2010. PMID: 22112477.
24. West KL, **Adamson DC**, Hoffman M. Prophylactic correction of the international normalized ratio in neurosurgery: a brief review of a brief literature. *J Neurosurg.* 114(1):9-18, January 2011. PMID: 20815695.
25. Mattox A, Hughes B, Oleson J, Reardon D, McLendon R, **Adamson DC**. Treatment recommendations for primary extradural meningiomas. *Cancer.* 117(1):24-38, January 2011. PMID: 20824719.
26. Coleman B, McLendon R, Kranz PG, **Adamson DC**. Medulloblastoma Part I: epidemiology, clinical presentation, histologic characteristics. *Contemp Neurosurg.* 34(3):1-6, February 2011.
27. Coleman B, McLendon R, Kranz PG, **Adamson DC**. Medulloblastoma Part II: epidemiology, clinical presentation, histologic characteristics. *Contemp Neurosurg.* 34(3):1-6, February 2011.
28. Turner DA, **Adamson DC**. Neuronal-astrocyte metabolic interactions: understanding the transition into abnormal astrocytoma metabolism. *J Neuropath Exp Neurol.* 70(3):167-176, March 2011. PMID: 21293295.
29. Nimjee S, Zomorodi A, **Adamson DC**. Conquering Mount Fuji: Resolution of Tension Pneumocephalus with a Foley Urinary Catheter. *Case Reports in Radiology* 2011; 2011:164316. July 2011. PMID: 22606539.
30. Huang K, Kranz PG, Green J, **Adamson DC**. Pituitary adenoma Part I: Epidemiology and clinical presentation. *Contemp Neurosurg.* 33(16):1-4, August 2011.
31. Huang K, Kranz PG, Green J, **Adamson DC**. Pituitary adenoma Part II: Diagnosis. *Contemp Neurosurg.* 33(17):1-4, August 2011.
32. Huang K, Kranz PG, Green J, McLendon R, **Adamson DC**. Pituitary adenoma Part III: Molecular biology and histology. *Contemp Neurosurg.* 33(18):1-4, September 2011.
33. Huang K, Becker A, Green J, McLendon R, **Adamson DC**. Pituitary adenoma Part IV: Management. *Contemp Neurosurg.* 33(19):1-6, September 2011.
34. DeLong M, Kaylie D, Kranz PG, **Adamson DC**. Vestibular schwannomas: lessons for the neurosurgeon. Part I: diagnosis, neuroimaging, and audiology. *Contemp Neurosurg.* 33(20):1-6, October 2011.

35. DeLong M, Kirkpatrick J, Cummings T, **Adamson DC**. Vestibular schwannomas: lessons for the neurosurgeon. Part II: molecular biology and histology. *Contemp Neurosurg*. 33(21):1-4, October 2011.
36. Lin N, Di C, Bortoff KD, Fu J, Truszkowski P, Killela P, Duncan C, McLendon RE, Bigner DD, Gregory S, Yan Y, **Adamson DC**. Deletion or epigenetic silencing of AJAP1 on 1p36 is a frequent event in glioblastoma. *Mol Canc Res*. 10(2):208-217, February 2012. PMID: PMC3288240.
37. Mattox AK, Li J, **Adamson DC**. Stopping cancer in its tracks: using small molecular inhibitors to target glioblastoma migrating cells. *Curr Drug Discov Technol*. 9(4):294-304, December 2012. PMID: 22339073.
38. Babu R, **Adamson DC**. Fluorescence-guided malignant glioma resections. *Curr Drug Discov Technol*. 9(4):256-267, December 2012. PMID: 22339071.
39. **Adamson DC**. Editorial: emerging treatment strategies for malignant gliomas. *Curr Drug Discov Technol*. 9(4):235-236, December 2012. PMID: 23234565.
40. Oh DS, **Adamson DC**, Kirkpatrick JP. Targeted radiotherapy for malignant gliomas. *Curr Drug Discov Technol*. 9(4):268-279, December 2012. PMID: 22339072.
41. Babu R, Bagley JH, Di C, Friedman AH, **Adamson DC**. Thrombin and hemin are central factors in the mechanisms of intracerebral hemorrhage-induced secondary brain injury and provide potential targets for intervention. *Neurosurgical Focus*. 32(4):E8, April 2012. PMID: 22463118.
42. Mattox A, Nakhla J, **Adamson DC**. Marked response of gliomatosis cerebri to temozolomide and whole brain radiotherapy. *Clin Neurol and Neurosurg*. 114(4):299-306, May 2012. PMID: 22341931.
43. Shonka N, Silberstein P, Wahl AO, Aizenberg M, Easton J, **Adamson DC**. VHA clinical guidance for the management of glioblastoma. *Fed Practitioner*. Vol 29(3), pages 15s-20s, August 2012.
44. Babu R, **Adamson DC**. Rindopepimut: an evidence based review of its therapeutic potential in the treatment of EGFRvIII-positive glioblastoma. *Core Evidence*. 7:93-103, September 2012. PMID: 23055947.
45. Bagley JH, Babu R, Friedman AH, **Adamson DC**. Improved survival in the largest national cohort of adults with cerebellar versus supratentorial low-grade astrocytomas. *Neuros Focus*. 34(2):E7, February 2013. PMID: 23373452.
46. Babu R, Sharma R, Karikari IO, Owens TR, Friedman AH, **Adamson DC**. Outcome and prognostic factors in adult cerebellar glioblastoma. *J of Clin Neurosci*. 20:1117-21, May 2013. PMID: 23706183.
47. Gandhi R, Babu R, Cummings TJ, **Adamson DC**: Adult Primitive Neuroectodermal Tumors: the prognostic value of supratentorial location. *J Neurooncol*, 114:141-148, May 2013. PMID: 23720066.
48. Babu R, Sharma R, Bagley JH, Hatef J, Friedman A, **Adamson DC**. Vestibular schwannomas in the modern era: epidemiology, treatment trends, and disparities in management. *J Neurosurgery*, 119: 121-130, February 2013. PMID: 23432451.
49. Park J, Babu R, Kranz PG, McLendon RE, **Adamson DC**. Intraaxial dermoid cyst in the medulla. *J Neurosurgery*, 119: 442-445, August 2013. PMID: 23621596.
50. Babu R, Kranz PG, Karikari IO, Friedman AH, **Adamson DC**. Clinical characteristics and treatment of malignant brainstem glioma in elderly patients. *J of Clin Neurosci*, 20: 1382-86, October 2013. PMID: 23850399.
51. Zhang J, Babu R, McLendon ER, Friedman AH, **Adamson DC**. A comprehensive analysis of 41 patients with rosette-forming glioneuronal tumors of the fourth ventricle. *J Clin Neurosci*, 20(3): 335-341, March 2013. PMID: 23375398.

52. Babu R, Hatef J, McLendon RE, Cummings TJ, Sampson JH, Friedman AH, Adamson DC. Clinicopathological characteristics and treatment of rhabdoid glioblastoma. *J Neurosurg*, 119(2): 412-9, August 2013. PMID: 23641829.
53. Babu R, Bagley JH, Park JG, Friedman AH, **Adamson DC**. Low-grade astrocytomas: the prognostic value of fibrillary, gemistocytic, and protoplasmic tumor histology. *J Neurosurg*, 119(2): 434-41, August 2013. PMID: 23662821.
54. Agarwal V, Babu R, Grier J, Adogwa O, Back A, Friedman AH, Fukushima T, **Adamson DC**. Cerebellopontine angle meningiomas: postoperative outcomes in a modern cohort. *NSU Focus*, 35(6):E10, Dec 2013. PMID: 24289118.
55. Han L, Zhang K, Zhang J, Zeng L, Di C, Fee B, Rivas M, Bao Z, Jiang T, Bigner D, Kang C, **Adamson DC**. AJAP1 is dysregulated at the early stage of gliomagenesis and suppresses invasion through actin reorganization. *CNS Neurosci Ther*, Feb 2014. PMID: 24483339.
56. Zeng L, Di C, Fee B, Rivas M, Bigner D, Kang C, **Adamson DC**. Adherens Junctional Associated Protein-1 is a Negative transcriptional regulator of MAGEA2, which Potentiates TMZ-Induced Apoptosis in GBM. *Int J Oncol*, 44(4):1243-51, Apr 2014. PMID: 24481586.
57. Babu R, Kranz PG, Agarwal V, McLendon RE, Thomas S, Friedman AH, Bigner DD, **Adamson DC**. Malignant Brainstem Gliomas in Adults: clinicopathological characteristics and prognostic factors. *J Neurooncol*, 119(1): 177-85, Aug 2014. PMID: 24838419.
58. Zeng L, Fee BE, Rivas M, Lin J, **Adamson DC**. Adherens junctional associated protein-1: A novel 1p36 tumor suppressor candidate in gliomas. *Int J Oncol*, 45(1): 13-7, Jul 2014. PMID: 24807315.
59. Babu R, Thomas S, Hazzard MA, Friedman AH, Sampson JH, **Adamson DC**, Zomorodi AR, Haglund MH, Patil CG, Boakye M, Lad SP. Worse outcomes for patients undergoing brain tumor and cerebrovascular procedures following the ACGME resident duty-hour restrictions. *J Neurosurg*. 121(2): 262-76, Aug 2014. PMID: 24926647.
60. Hatef JB*, **Adamson DC***, Obiga O, Taremwa B, Ssenyojo H, Muhumuza M, Hagland M, Schroeder K. *shared first authorship. Central Nervous System Tumor Distribution at a Tertiary Referral Center in Uganda. *World Neurosurg*, 82(3-4):258-65, Sept-Oct, 2014. PMID: 24953304.
61. Li J, Di C, Jing J, Di Q, Nakhla J, **Adamson DC**. *OTX2* is a therapeutic target for retinoblastoma and may function as a common factor between C-MYC, CRX, and phosphorylated RB pathways. *Int J Oncol*, Accepted 2014.
62. Babu R, Di C, McLendon RE, Friedman AH, Adamson DC. Glioblastoma in the elderly: the effect of aggressive and modern therapies on survival. *J Neurosurgery*, Accepted 2015.
63. Kang JH, **Adamson DC**. Novel chemotherapeutics and other therapies for treating high-grade glioma. *Expert Opin. Investig. Drugs*, Early Online:1-19, May 2015.
64. Sharma R, Babu R, Manhas A, Grant GA, **Adamson DC**. Prognostic factors in pediatric malignant brainstem gliomas: a population-based analysis of cases with tissue diagnosis. Submitted 2013.
65. Di C, Mladkova N, Fu J, McLendon RE, Bigner DD, **Adamson DC**. Loss of AJAP1 expression increases invasion and migration of glioblastoma tumor cells and correlates with worse survival. *Clin Canc Res*. Submitted 2014.
66. Prasanna M, Di C, Lin JB, Rivas MV, Fee BE, **Adamson DC**. AJAP1 reduces migratory behavior in glioma cells through a FOXM1-mediated interaction with E-Cadherin. Submitted May 2014.
67. Prasanna M, Di C, Lin JB, Rivas MV, Fee BE, **Adamson DC**. Glioblastoma epigenetics. Submitted May 2014.
68. Babu R, Di C, McLendon RE, **Adamson DC**. Epidermal Growth Factor Targeted Fluorescein for Glioblastoma Boundary Delineation: A Novel Fluorophore with Superior Specificity. *Neurosurg*, Submitted 2014.

69. Hatef J, Michael A, **Adamson DC**. Traumatic Head Injury Triage and Early Treatment Guidelines in Veterans. *Military Med*, Submitted May, 2014.
70. Elsamadicy AA, Babu R, Kirkpatrick J, **Adamson DC**. Improved survival for radiation-induced malignant gliomas. *World J of Neurosurg*, Accepted May, 2014.
71. Lin JB, Fee BE, Rivas, M, **Adamson DC**. Modulation of U87 Glioma Stem Cells Using a Small Molecule Wnt Inhibitor. Submitted June, 2014.
72. Kang JH, Healy P, Herndon J, Lipp ES, Peters KB, Vlahovic G, Sampson JH, Friedman HS, Friedman AH, Desjardins A, **Adamson DC**. Levetiracetam's Effectiveness in Preventing Post-operative Seizures in Malignant Glioma: Still a debate. Submitted June, 2014.

2. Non-refereed publications:

1. Williams SM, White LE, Peele TL, Fitzpatrick D, LaMantia AS, **Adamson DC**, Cant NB. *Brain & Behavior: A laboratory guide for learning functional neuroanatomy*. Duke University School of Medicine, 1:1-140, December 2008.
2. Williams SM, White LE, Peele TL, Fitzpatrick D, LaMantia AS, **Adamson DC**, Cant NB. *Brain & Behavior: A laboratory guide for learning functional neuroanatomy*. Duke University School of Medicine, 1:1-148, December 2009.
3. Williams SM, White LE, Peele TL, Fitzpatrick D, LaMantia AS, **Adamson DC**, Cant NB. *Brain & Behavior: A laboratory guide for learning functional neuroanatomy*. Duke University School of Medicine, 1:1-152, December 2010.

3. Major invited lectures (since November 1992 with special recognitions in parentheses):

1. **Adamson DC**, Zink MC, Clements JE, Dawson TM, Dawson VL. "Neurovirulent simian immunodeficiency virus in the central nervous system," Society of Neuroscience Annual Meeting, San Diego, CA, November 11-16, 1995.
2. **Adamson DC**, Dawson TM, Dawson VL. "Immunologic nitric oxide synthase and HIV-1," Polk Symposium, Baltimore, MD, April 1996.
3. **Adamson DC**, Wildemann B, Sasaki M, Glass JD, McArthur JC, Christov VI, Dawson TM, Dawson VL. "Neuronal injury in severe AIDS dementia is mediated by HIV-1 coat protein, gp41, induction of immunologic nitric oxide synthase," 61st Symposium: Function & Dysfunction in the Nervous System, Cold Spring Harbor, NY, May 29-June 5, 1996.
4. **Adamson DC**, Dawson TM, Dawson VL. "The role of nitric oxide in AIDS dementia," Biochemistry and Molecular Biology of Nitric Oxide, Los Angeles, CA, June 16, 1996.
5. **Adamson DC**, Dawson TM, Zink MC, Clements JE, Dawson VL. "Neurovirulent simian immunodeficiency virus strain induces apoptosis in the central nervous system," 4th Conference on Retroviruses and Opportunistic Infections, Washington, DC, January 22-26, 1997.
6. **Adamson DC**, Wildemann B, Sasaki M, Glass JD, McArthur JC, Christov VI, Dawson TM, Dawson VL. "Immunologic nitric oxide synthase: elevation in severe AIDS dementia and induction by HIV-1 gp41," Society for Neuroscience Annual Meeting, New Orleans, LA, October 25-30, 1997.
7. **Adamson DC**, George TM. "Mechanisms of reclosure in a surgical model of myelomeningocele: Implications for fetal surgery," AANS/CNS Section on Pediatrics Annual Meeting, Phoenix, AZ, December, 2002.
8. **Adamson DC**, Yan H. "Mutations of PIK3CA in anaplastic oligodendrogliomas, high-grade astrocytomas and medulloblastomas," AANS/CNS Section on Tumors 6th Biennial Satellite Symposium, San Francisco, CA, October 21-22, 2004.

9. **Adamson DC**, Broderick DK, Di C, Parrett TJ, McLendon RE, Rasheed A, Bigner DD, Yan H. "PIK3CA is mutated in anaplastic brain tumors and associated with 1p, 19q LOH in oligodendrogliomas," Southern Neurosurgical Society Annual Meeting, Key West, FL, March 3-6, 2005.
10. **Adamson DC**, Broderick DK, Di C, Parrett TJ, Samuels YR, Cummings JM, McLendon RE, Fults DW, Velculescu VE, Ahmed R, Bigner DD, Yan H. "Genetic analysis of LOH of chromosome 1p, 19q and PIK3CA mutations in oligodendrogliomas," 96th Annual Meeting of the American Association for Cancer Research, Anaheim, CA, April 16-20, 2005.
11. Yan H, Di C, Liao S, **Adamson DC**, Broderick DK, Parrett TJ, Shi Q, McLendon RE, Bigner DD. "Identification of novel genomic alterations in brain tumors," 96th Annual Meeting of the American Association for Cancer Research, Anaheim, CA, April 16-20, 2005.
12. **Adamson DC**, Yan H, Di C, Liao S. "Identification of OTX2 as a medulloblastoma oncogene whose product can be targeted by all-trans retinoic acid," Annual Meeting of American Association of Neurological Surgeons, New Orleans, LA, April 16-21, 2005.
13. **Adamson DC**, Broderick DK, Di C, Samuels YR, McLendon RE, Fults DW, Velculescu VE, Rasheed A, Bigner DD, Yan H. "PIK3CA is mutated in oligodendrogliomas, astrocytomas, and medulloblastomas and associated with chromosome 1p, 19q LOH in oligodendrogliomas." 2nd Quadrennial Meeting of the World Federation of NeuroOncology, Edinburgh, United Kingdom, May 5-8, 2005.
14. **Adamson DC**, Di C, Liao S, McLendon RE, Bigner DD, Yan H. "OTX2 and medulloblastoma," 13th International World Federation of Neurosurgical Societies, Marrakech, Morocco, June 18-22, 2005.
15. **Adamson DC**, George T, Di C, Shi Q, Liao S, Bigner DD, Yan H. "Digital karyotyping identifies a novel retinoblastoma oncogene," 34th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, November 29-December 1, 2005.
16. **Adamson, DC**. "Assessment, Management and Decision Making in the Treatment of Polytrauma Patients with Head Injuries." Orthopedic Resident Education Conference lecture, Duke University, Duke, NC, November 2005.
17. **Adamson DC**, Di C, Shi Q, McLendon RE, Bigner DD, Yan H. "A novel molecular therapeutic target for anaplastic medulloblastoma," Southern Neurosurgical Society Annual Meeting, Bermuda, March 3, 2006.
18. **Adamson DC**, George T, Di C, Shi Q, Liao S, Bigner DD, Yan H. "Digital karyotyping identifies a novel retinoblastoma oncogene," Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
19. **Adamson DC**, Di C, Shi Q, McLendon RE, Bigner DD, Yan H. "A novel medulloblastoma oncogene, OTX2, correlates with patient survival and anaplasia," Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
20. **Adamson DC**. "Exploring the genetics of brain tumors." Duke Pathology Graduate Student Seminar series, Duke University, Durham, NC, April 2006.
21. **Adamson DC**. "Digital karyotyping identifies novel oncogene and tumor suppressor gene for malignant brain tumors," American Brain Tumor Association Meeting, Chicago, IL, May 9, 2006.
22. **Adamson DC**. "Genetics of brain tumors." Neurobiology Graduate Student Frontiers in Science Lecturer, Duke University, Durham, NC, May 2006.
23. **Adamson DC**. "Exploring a career in neurosurgery for secondary school students." Saint-Mary's Senior Internship Program, Raleigh, NC, June 2006.
24. **Adamson DC**. "Digital karyotyping identifies a novel tumor suppressor gene in GBM," Southern Neurosurgical Society Annual Meeting, Sea Island, GA, March 14, 2007.

25. Bortoff K, Lin N, Di C, Shi Q, McLendon RE, Bigner DD, Yan H, **Adamson DC**. "Identification of a novel tumor suppressor gene in glioblastoma multiforme," Annual Research Meeting of Duke Comprehensive Cancer Center, Durham, NC, March 12, 2007.
26. **Adamson DC**. "Leadership in the 21st century for new college graduates." Omicron Delta Kappa student leadership banquet, Bridgewater College, Bridgewater, VA, April 2007.
27. **Adamson DC**. "Exploring a career in neurosurgery for secondary school students." Saint-Mary's Senior Internship Program, Raleigh, NC, June 2007.
28. Truszkowski P, Bortoff K, Lin N, Fu J, Di C, Duncan C, Killela P, Yan H, **Adamson DC**. "Validation of genomic loss of the novel tumor suppressor gene Shrew-1 in glioblastoma multiforme," Annual Duke Visible Thinking Research Conference, Durham, NC, March, 2008.
29. Mladkova N, Di C, Fu J, Lin N, **Adamson DC**. "Inhibition of Shrew-1 expression in glioma cells increases tumor cell migration," Research Symposium at Medical School of Charles University in Prague Annual Research Ceremony, Czech, May 2008.
30. **Adamson DC**. "Using gene expression profiles in oncology to characterize tumor subclasses and predict therapeutic response," Duke Neurosurgery Resident Training Program Literature Review Conference, Durham, NC, November 2008.
31. **Adamson DC**. "Translational neurosurgery in American academic neurosurgery centers," 14th International World Federation of Neurosurgical Societies, Boston, MA, August, 2009.
32. **Adamson DC**. "Meet the professor: brain tumor therapies," VHA Oncology Conference, Minneapolis, MN, September 2009.
33. **Adamson DC**. "Emerging therapies in glioblastoma," VHA Oncology Conference, Minneapolis, MN, September 2009.
34. **Adamson DC**. "USMLE step 1 neuroscience review for first year medical students," Duke University School of Medicine, Durham, NC, October 2009.
35. **Adamson DC**. "Careers in Neurosurgery" and "Exploring genomics in malignant brain tumors," Student Interest Group in Neurology/Neurosurgery lecture series, Duke, Durham, NC, November 2009.
36. **Adamson DC**. "Anatomy and function of the cerebrum and cerebellum," Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, August 2010.
37. **Adamson DC**. "Anatomy and function of the cranial nerves and brainstem," Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, September 2010.
38. **Adamson DC**. "Clinical careers in the neurosciences," Student Interest Group in Neurology/Neurosurgery lecture series, Duke, Durham, NC, October 2010.
39. **Adamson DC**. "Neural transmission and pathways," Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, November 2010.
40. **Adamson DC**. "Tumor board review for neurosurgery residents," Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, March 2011.
41. **Adamson DC**. "Craniotomies," Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, June 2011.
42. **Adamson DC**. "Neurosurgeon's perspective on intraoperative monitoring," American Society of Electroneurodiagnostic Technologists Annual Conference, Atlanta, GA, July 2011.
43. **Adamson DC**. "ASET synapse bowl," American Society of Electroneurodiagnostic Technologists Annual Conference, Atlanta, GA, July 2011.
44. **Adamson DC**. "Anatomy of the posterior fossa and fourth ventricle," Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, August 2011.
45. **Adamson DC**. "Preparing for a career in neurosurgery as a medical student," Duke Student Interest Group in Neurology/Neurosurgery lecture series, Durham, NC, September 2011.

46. **Adamson DC.** “Anatomy of the cerebral and cerebellar cortex,” Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, October 2011.
47. **Adamson DC.** “Treatment guidelines for glioblastoma in veterans,” VHA Oncology Conference, Kansas City, MO, October 2011.
48. **Adamson DC.** “The Perioperative Management of Pituitary Tumors: A Surgeon's Perspective,” Duke Endocrinology Grand Rounds, Durham, NC, November 2011.
49. **Adamson DC.** “Vestibular schwannomas: radiosurgery versus debulking vs gross total resection (moderator),” Cerebrovascular and Skull Base Surgery: The Battle at Pinehurst, Pinehurst, NC, May 2012.
50. **Adamson DC.** “Neurosurgeon’s perspective on intraoperative monitoring,” American Society of Electroneurodiagnostic Technologists Annual Conference, St. Paul, MN, August 2012.
51. **Adamson DC.** “Managing tumors in the Brain...with a focus on the most most common,” American Society of Electroneurodiagnostic Technologists Annual Conference, Reno, NV, July 2013.
52. **Adamson DC.** “ASET synapse bowl,” American Society of Electroneurodiagnostic Technologists Annual Conference, Reno, NV, July 2013.
53. **Adamson DC.** “Management of gliomas and future research into glioblastoma,” Duke Regional Hospital Grand Rounds, Durham, NC, August 2013.
54. **Adamson DC.** “Managing the most common primary brain tumor in veterans,” Association of VA Hematology/Oncology 9th Annual Meeting, Atlanta, GA, October 2013.
55. **Adamson DC.** “Anatomy and function of the cerebrum and cerebellum,” Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, October 2013.
56. **Adamson DC.** “Anatomy and function of the cranial nerves and brainstem,” Duke Fundamentals of Neurosurgery Resident Training Conference, Durham, NC, October 2013.
57. **Adamson DC.** “Careers in Neurosurgery,” Duke Student Interest Group in Neurology/Neurosurgery lecture series, Durham, NC, October 2013.
58. **Adamson DC.** “Applied Neuroanatomy Session 1: When Things Go Awry,” Duke University School of Medicine Brain and Behavior course, Durham, NC, January 2014.
59. **Adamson DC.** “Applied Neuroanatomy Session 2: Surgical treatments of pain,” Duke University School of Medicine Brain and Behavior course, Durham, NC, January 2014.
60. **Adamson DC.** “Applied Neuroanatomy Session 3: Operating around cranial nerves,” Duke University School of Medicine Brain and Behavior course, Durham, NC, January 2014.
61. **Adamson DC.** “Applied Neuroanatomy Session 4: Preserving CST pathways,” Duke University School of Medicine Brain and Behavior course, Durham, NC, January 2014.
62. **Adamson DC.** “Applied Neuroanatomy Session 5: Operating on patients with weakness,” Duke University School of Medicine Brain and Behavior course, Durham, NC, January 2014.
63. **Adamson DC.** “Pituitary Tumors: A Neurosurgeon's Perspective,” Duke Endocrinology Grand Rounds, Durham, NC, February 2014.
64. **Adamson DC.** “Treating brain tumors,” Roxboro Rotary Club Invited Speaker, Roxboro, NC, February 2014.
65. **Adamson DC.** “Cavernous Sinus Meningiomas – Observation,” Cerebrovascular and Skull Base Surgery: The Battle at Pinehurst, Pinehurst, NC, May 2014.
66. **Adamson DC.** “Treating brain tumors,” Oxford Rotary Club Invited Speaker, Oxford, NC, May 2014.
67. **Adamson DC.** “Targeting migration in glioblastoma,” Durham VA Medical Center Executive Committee Invited Speaker, Durham, NC, June 2014.
68. **Adamson DC.** “Treating pituitary and glioma brain tumors,” Person Memorial Hospital Grand Rounds, Roxboro, NC, June 2014.

69. **Adamson DC.** “Medical students going into Neurosurgery,” Neurosurgery Student Interest Group, Duke University Health System, Durham, NC, July 2014.
70. **Adamson DC.** “What makes a neurosurgeon nervous,” American Society of Electroneurodiagnostic Technologists Annual Conference, Asheville, NC, August 2014.
71. **Adamson DC.** “Careers in Neurosurgery,” Duke Neurosurgery Student Interest Group lecture series, Durham, NC, September 2014.
72. **Adamson DC.** “Surgical management of brain metastatic tumors,” Association of VA Hematology/Oncology 10th Annual Meeting, Portland, OR, September 2014.
73. **Adamson DC.** “Posterior fossa surgical approaches,” 1st annual Duke Craniotomy Residency Course, Durham, NC, October 22, 2014.
74. **Adamson, DC.** “Using IONM to avoid complications in neurosurgery,” Neuropalooza Neuromonitoring Conference, Piedmont Hospital, Atlanta, GA, June 2015.

4. Chapters in books:

1. George TM, **Adamson DC.** *Spinal dysraphism: The search for magic.* In “Modern neurosurgery – clinical translation of neuroscience advances,” eds DA Turner and DF Dimitrov, CRC Press, 2003.
2. New KC, **Adamson DC,** Selznick L, Sampson J. *Advances in therapy for high grade gliomas.* In “Modern neurosurgery – clinical translation of neuroscience advances,” eds DA Turner and DF Dimitrov, CRC Press, 2003.
3. George TM, **Adamson DC.** *Normal and abnormal development of the nervous system.* In “Principles and practice of pediatric neurosurgery, 2nd edition,” ed AL Albright, Thieme Medical Publishers, 2007.
4. **Adamson DC,** Bortoff KD, Yan H. *Overview of Oncogenesis.* In “Pathobiology of Ocular Disease, 3rd edition,” eds Garner and Klintworth, Taylor and Francis Group, 2007.
5. **Adamson DC.** *Biology of metastasis.* In “Pathobiology of Ocular Disease, 3rd edition,” eds Garner and Klintworth, Taylor and Francis Group, 2007.
6. Lopez GY, Samsky M, Rosanne J, **Adamson DC,** Han Y. *Brain cancers.* In “Systems Biology of Cancer,” eds S Thiagalingam, Cambridge University Press, 2009.
7. **Adamson DC,** Ahmed B, Rasheed K, McLendon RE, Bigner DD. *Central Nervous System.* In “Molecular Pathology of Early Cancer,” eds S. Srivastava, W. Grizzle, IOS Press, 2011.
8. Mattox A, Li J, Di C, **Adamson DC.** *Medulloblastoma: Role of OTX2 Transcription Factors.* In “Tumors of the Central Nervous System, vol 8” ed M.A. Hayat, Springer Science+Business Media Dordrecht, 2012.
9. Babu R, Di C, Mattox AK, Harward S, **Adamson DC.** *Targeting Migrating Cells in Glioblastoma.* In “Advances Anti-Cancer Agents in Medicinal Chemistry (Vol. 2),” eds R Khan, Benthan Science Publishers, 2013.
10. George TM, **Adamson DC.** *Normal and abnormal development of the nervous system.* In “Principles and practice of pediatric neurosurgery, 3rd edition,” ed AL Albright, Thieme Medical Publishers, 2014.

5. Books:

1. Neurosurgery Oral Board Preparation, eds. **Adamson DC** and J Citow. Thieme, 2nd edition, 2011. “Second edition of the bestselling neurosurgery oral board preparation first edition.”
2. Gliomas: Classification, Symptoms, Treatment and Prognosis, ed **Adamson DC.** Nova Science Publishers, Inc, 1st edition, 2014.

6. **Non-authored publications:** N/A

7. **Other: a. Published scientific reviews (for mass distribution)** N/A

b. Selected abstracts

1. **Adamson DC**, Zink MC, Clements JE, Dawson TM, Dawson VL. "*Neurovirulent simian immunodeficiency virus in the central nervous system,*" Society of Neuroscience Annual Meeting, San Diego, CA, November 11-16, 1995.
2. **Adamson DC**, Dawson TM, Dawson VL. "*Immunologic nitric oxide synthase and HIV-1,*" Polk Symposium, Baltimore, MD, April 1996.
3. **Adamson DC**, Wildemann B, Sasaki M, Glass JD, McArthur JC, Christov VI, Dawson TM, Dawson VL. "*Neuronal injury in severe AIDS dementia is mediated by HIV-1 coat protein, gp41, induction of immunologic nitric oxide synthase,*" 61st Symposium: Function & Dysfunction in the Nervous System, Cold Spring Harbor, NY, May 29-June 5, 1996.
4. **Adamson DC**, Dawson TM, Dawson VL. "*The role of nitric oxide in AIDS dementia,*" Biochemistry and Molecular Biology of Nitric Oxide, Los Angeles, CA, June 16, 1996.
5. **Adamson DC**, Dawson TM, Zink MC, Clements JE, Dawson VL. "*Neurovirulent simian immunodeficiency virus strain induces apoptosis in the central nervous system,*" 4th Conference on Retroviruses and Opportunistic Infections, Washington, DC, January 22-26, 1997.
6. **Adamson DC**, Wildemann B, Sasaki M, Glass JD, McArthur JC, Christov VI, Dawson TM, Dawson VL. "*Immunologic nitric oxide synthase: elevation in severe AIDS dementia and induction by HIV-1 gp41,*" Society for Neuroscience Annual Meeting, New Orleans, LA, October 25-30, 1997.
7. Samdani A, Rhines LD, **Adamson DC**, Lawson HC, Tyler BM, Brem H, Dawson VL, Dawson TM.
8. "*Astroglia mediate cytotoxic effects toward brain tumors via a nitric oxide dependent mechanism in vivo.*" American Association of Neurological Surgeons, New Orleans, LA, April 24-29, 1999.
9. Samdani A, Rhines LD, Lawson C, **Adamson DC**, Tyler B, Dawson V, Brem H, Dawson T. "*Taxol and IFN-gamma Synergize to Inhibit Brain Tumors via Astroglial Nitric Oxide Production,*" Congress of Neurological Surgeons, Boston, Massachusetts, October 1999.
10. Samdani AF, Rhines L, **Adamson DC**, Lawson HC, Tyler B, Brem H, Dawson VL, Dawson TM. "*Astroglia induce cytotoxic effects towards brain tumors via a nitric oxide dependent pathway both in vitro and in vivo.*" Congress of Neurological Surgeons, San Antonio, TX. September 23-28, 2000.
11. **Adamson DC**, George TM. "*Mechanisms of reclosure in a surgical model of myelomeningocele: Implications for fetal surgery,*" AANS/CNS Section on Pediatrics Annual Meeting, Phoenix, AZ, December, 2002. (**Kenneth Shulman Research Award**).
12. **Adamson DC**, Yan H. "*Mutations of PIK3CA in anaplastic oligodendrogliomas, high-grade astrocytomas and medulloblastomas,*" AANS/CNS Section on Tumors 6th Biennial Satellite Symposium, San Francisco, CA, October 21-22, 2004.
13. **Adamson DC**, Broderick DK, Di C, Parrett TJ, McLendon RE, Rasheed A, Bigner DD, Yan H. "*PIK3CA is mutated in anaplastic brain tumors and associated with 1p, 19q LOH in oligodendrogliomas,*" Southern Neurosurgical Society Annual Meeting, Key West, FL, March 3-6, 2005.
14. **Adamson DC**, Broderick DK, Di C, Parrett TJ, Samuels YR, Cummings JM, McLendon RE, Fults DW, Velculescu VE, Ahmed R, Bigner DD, Yan H. "*Genetic analysis of LOH of chromosome 1p, 19q and PIK3CA mutations in oligodendrogliomas,*" 96th Annual Meeting of the American Association for Cancer Research, Anaheim, CA, April 16-20, 2005.

15. Yan H, Di C, Liao S, **Adamson DC**, Broderick DK, Parrett TJ, Shi Q, McLendon RE, Bigner DD. "Identification of novel genomic alterations in brain tumors," 96th Annual Meeting of the American Association for Cancer Research, Anaheim, CA, April 16-20, 2005.
16. **Adamson DC**, Yan H, Di C, Liao S. "Identification of *OTX2* as a medulloblastoma oncogene whose product can be targeted by all-trans retinoic acid," Annual Meeting of American Association of Neurological Surgeons, New Orleans, LA, April 16-21, 2005. (**Preuss Research Award**).
17. **Adamson DC**, Broderick DK, Di C, Samuels YR, McLendon RE, Fults DW, Velculescu VE, Rasheed A, Bigner DD, Yan H. "*PIK3CA* is mutated in oligodendrogliomas, astrocytomas, and medulloblastomas and associated with chromosome 1p, 19q LOH in oligodendrogliomas." 2nd Quadrennial Meeting of the World Federation of NeuroOncology, Edinburgh, United Kingdom, May 5-8, 2005.
18. **Adamson DC**, Di C, Liao S, McLendon RE, Bigner DD, Yan H. "*OTX2* and medulloblastoma," 13th International World Federation of Neurosurgical Societies, Marrakech, Morocco, June 18-22, 2005. (**World Federation of Neurosurgical Societies Young Neurosurgeon Award**).
19. **Adamson DC**, George T, Di C, Shi Q, Liao S, Bigner DD, Yan H. "Digital karyotyping identifies a novel retinoblastoma oncogene," 34th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, November 29- December 1, 2005.
20. **Adamson DC**, Di C, Shi Q, McLendon RE, Bigner DD, Yan H. "A novel molecular therapeutic target for anaplastic medulloblastoma," Southern Neurosurgical Society Annual Meeting, Bermuda, March 3, 2006. (**Basic Science Award**).
21. **Adamson DC**, George T, Di C, Shi Q, Liao S, Bigner DD, Yan H. "Digital karyotyping identifies a novel retinoblastoma oncogene," Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006. (**Kenneth Shulman Research Award**).
22. **Adamson DC**, Di C, Shi Q, McLendon RE, Bigner DD, Yan H. "A novel medulloblastoma oncogene, *OTX2*, correlates with patient survival and anaplasia," Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006. (**Ronald L. Bittner Research Award**).
23. **Adamson DC**. "Digital karyotyping identifies novel oncogene and tumor suppressor gene for malignant brain tumors," American Brain Tumor Association Meeting, Chicago, IL, May 9, 2006.
24. Bortoff K, Lin N, Di C, Shi Q, McLendon RE, Bigner DD, Yan H, **Adamson DC**. "Identification of a novel tumor suppressor gene in glioblastoma multiforme," Annual Research Meeting of Duke Comprehensive Cancer Center, Durham, NC, March 12, 2007.
25. **Adamson DC**. "Digital karyotyping identifies a novel tumor suppressor gene in GBM," Southern Neurosurgical Society Annual Meeting, Sea Island, GA, March 14, 2007.
26. Truszkowski P, Bortoff K, Lin N, Fu J, Di C, Duncan C, Killela P, Yan H, **Adamson DC**. "Validation of genomic loss of the novel tumor suppressor gene Shrew-1 in glioblastoma multiforme," Annual Duke Undergraduate Research Day, Durham, NC, March, 2008.
27. Mladkova N, Di C, Fu J, Lin N, **Adamson DC**. "Inhibition of Shrew-1 expression in glioma cells increases tumor cell migration," 9th Annual Student Scientific Conference of the 1st Medical School of the Charles University in Prague, May 21, 2008. (**3rd place award Nominated for presentation at a National Research Contest**).
28. Mladkova N, Di C, Fu J, Lin N, **Adamson DC**. "Inhibition of Shrew-1 expression in glioma cells increases tumor cell migration," Leiden International Medical Student Conference (LIMSC), Leiden, Netherlands, March 2009.
29. Truszkowski P, Bortoff K, Lin N, Fu J, Di C, Duncan C, Killela P, Yan H, **Adamson DC**. "FISH studies in glioblastoma (**Honors Thesis**)," Distinction in Biology Poster Symposium, Duke University, Durham, NC, April 2009.

30. Nakhla J, Di C, **Adamson DC**. “Exploring the role of the novel oncogene OTX2 in retinoblastoma and pineoblastoma,” AOA School of Medicine Symposium, Duke University, Durham, NC, August 2009.
31. **Adamson DC**, Lin N, Di C, Bortoff K, Fu J, Truszkowski P, Killela P, Duncan C, McLendon R, Bigner D. “Genome mapping of glioblastoma identifies a novel epigenetically-silenced, migration-related gene, Adherens Junctional Associated Protein, whose restoration of expression by demethylating agents can inhibit cell migration,” CNS Annual Meeting, New Orleans, LA, October 2009. **(Top Ten Abstract)**.
32. Mattox A, Mehta A, Grossi P, Cummings T, **Adamson DC**. “Response of malignant scalp dermatofibrosarcoma to presurgical targeted growth factor inhibition,” Duke Comprehensive Cancer Center annual meeting, Duke University, Durham, NC, October 2009.
33. Nakhla J, Di C, **Adamson DC**. “Exploring the role of the novel oncogene OTX2 in retinoblastoma and pineoblastoma,” Duke Comprehensive Cancer Center annual meeting, Duke University, Durham, NC, October 2009.
34. Li N, Di C, Bortoff K, Fu J, Truszkowski P, Killela P, Duncan C, McLendon R, Bigner D, Gregory S, Yan H, **Adamson DC**. “Deletion or Epigenetic Silencing of AJAP1 on 1p36 is a Frequent Event in Glioblastoma,” Duke Comprehensive Cancer Center annual meeting, Duke University, Durham, NC, October 2009.
35. Mladkova N, **Adamson DC**. “Combination therapy with rapamycin and bevacizumab is better than single therapy in glioblastoma,” Duke Comprehensive Cancer Center annual meeting, Duke University, Durham, NC, October 2009.
36. Mladkova N, **Adamson DC**. “The effect of rapamycin and bevacizumab on malignant glioblastoma cell lines in vitro,” International Student Congress of Medical Sciences, University Medical Centre of Groningen, Groningen, The Netherlands, June 2010.
37. Mattox A, Li J, Di C, **Adamson DC**. “The role of PAX3 in healing neural tube closure defects,” Graduation with Distinction Symposium, Duke University, Durham, NC, May 2011.
38. Mattox A, Di C, Nakhla J, Li J, **Adamson DC**. “Exploration of OTX2 as a prognostic factor and therapeutic target in multiple malignant brain tumors,” National Veteran Associations Research Week Symposium, Durham VA Medical Center, Durham, NC, May 2011.
39. Prasanna M, Di C, **Adamson, DC**. “AJAP1 reduces migratory capacity and neurite outgrowth in U87MG glioblastoma cells,” Howard Hughes Institute Conference, Duke University, Durham, NC, July 2011.
40. Prasanna M, Di C, **Adamson DC**. “AJAP-1 reduces migratory capacity and neurite outgrowth in U87 glioblastoma cells.” Congress of Neurological Surgeons, Chicago, IL, October 2012.
41. Li J, Di C, **Adamson DC**. “Identification of OTX2 as a novel therapeutic target in the malignant childhood tumor retinoblastoma.” Duke Undergraduate Research Symposium, Durham, NC, May 2012.
42. Babu R, **Adamson DC**. “Malignant Brainstem Gliomas in Adults: A Population-based study.” Congress of Neurological Surgeons, Chicago, IL, October 2012.
43. Babu R, **Adamson DC**. “Pediatric Malignant Brainstem Gliomas: A Population-based study.” Congress of Neurological Surgeons, Chicago, IL, October 2012.
44. Babu R, Karikari IO, Cummings TJ, Friedman AH, **Adamson DC**. “Prognostic Factors and Characteristics of Malignant Brainstem Gliomas in Adults.” Congress of Neurological Surgeons, Chicago, IL, October 2012.
45. Zhang J, Babu R, **Adamson DC**. “Rosette-forming glioneuronal tumors of the fourth ventricle: case report with long-term follow-up and review of the literature.” Congress of Neurological Surgeons, Chicago, IL, October 2012.

46. Li J, Di C, Di Q, Nakhla J, **Adamson DC**. "Medulloblastoma Oncogene OTX2 Promotes Growth in Other Tumors Via Regulation of MYC, CRX, and Phosphorylation of RB." Congress of Neurological Surgeons, Chicago, IL, October 2012.
47. Babu R, Heflin MT, **Adamson DC**. "Surgical treatment of glioblastoma in the elderly." American Geriatrics Society, Grapevine, TX, May 2013.
48. Prasanna M, Di C, **Adamson DC**. "AJAP1 reduces migratory capacity and astrocytic outgrowth in U87MG glioblastoma cells." Veterans Association Medical Center Research, Durham, NC, April 2013.
49. Babu R, Di C, McLendon RE, **Adamson DC**. "Epidermal Growth Factor Receptor Targeted Fluorescein for Glioblastoma Boundary Delineation." Veterans Association Medical Center Research, Durham, NC, April 2013.
50. Babu R, Komisarow J, Karikari IO, **Adamson DC**. "Glioblastoma in the Elderly: the effect of aggressive and modern therapies on survival." Veterans Association Medical Center Research, Durham, NC, April 2013.
51. Rivas MV, Di C, **Adamson DC**. "Deciphering Physical and Chemical Association of Adherens Junctional Associated Protein (AJAP1) in Glioblastoma Multiforme (GBM)." Veterans Association Medical Center Research, Durham, NC, April 2013.
52. Zeng L, **Adamson DC**. "Adherens Junctional Associated Protein-1 is a negative transcriptional regulator of MAGEA2, which induces cancer cell apoptosis and inhibits proliferation in GBM." Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 2013.
53. Babu R, **Adamson DC**. "Epidermal Growth Factor Receptor Targeted Fluorescein for Glioblastoma Boundary Delineation: A Novel Fluorophore with Superior Specificity." Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 2013.
54. Lin J, **Adamson DC**. "Modulation of U87 Glioma Stem Cells Using a Small Molecule Wnt Inhibitor." Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 2013.
55. Babu R, **Adamson DC**. "Glioblastoma in the elderly: the effect of aggressive and modern therapies on survival." Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 2013.
56. Fee B, Rivas MV, Di C, **Adamson DC**. "Identification of two regions in the cytoplasmic domain of AJAP1 that have a role in glioma cell migration." World Federation of Neurological Surgeons International Conference, Seoul, Korea, September 2013.
57. Zeng L, **Adamson DC**. "Adherens Junctional Associated Protein-1 Is a Negative Transcriptional Regulator of Magea2, Which Induces Cancer Cell Apoptosis and Inhibits Proliferation in Gbm." World Federation of Neurological Surgeons International Conference, Seoul, Korea, September 2013.
58. Rivas MV, Di C, **Adamson DC**. "Deciphering Physical and Chemical Association of Adherens Junctional Associated Protein (ajap1) in Glioblastoma Multiforme (gbm)." World Federation of Neurological Surgeons International Conference, Seoul, Korea, September 2013.
59. Lin J, **Adamson DC**. "Expression of AJAP1 in U87MG cells inhibits glioma stem cell maintenance." 4th Quadrennial Meeting of the World Federation of Neuro-Oncology held in conjunction with the Scientific Meeting and Education Day of the Society for Neuro-Oncology, San Francisco, CA, November 2013.
60. Babu R, Agarwal V, Friedman AH, **Adamson DC**. "Utility of Aggressive Resection for High Grade Meningiomas: a population-based analysis." Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 5-9, 2014.
61. Babu R, Agarwal V, Friedman AH, **Adamson DC**. "Characteristics and Outcomes of Patients with Intraventricular Glioblastoma: a population-based analysis." Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 5-9, 2014.

62. Babu R, Agarwal V, Park JG, Friedman AH, **Adamson DC**. “Outcomes of Adults with Cerebellar Glioblastoma: a single-center experience.” Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 5-9, 2014.
63. Agarwal V, Babu R, Manhas A, Perez E, Friedman AH, **Adamson DC**. “Factors Affecting Patient Outcomes of Atypical Meningiomas in a Modern Cohort.” Annual Meeting of American Association of Neurological Surgeons, San Francisco, CA, April 5-9, 2014.
64. Hatef JB, Obiga O, Taremwa B, Ssenyojo H, Muhumuza M, Hagland M, Schroeder K, **Adamson DC**. Central Nervous System Tumor Distribution at a Tertiary Referral Center in Uganda. Duke Neurosurgery Research Day, Durham, NC, June 2014.
65. Kang J, **Adamson DC**. Levetiracetam’s Effectiveness in Preventing Post-operative Seizures in Malignant Glioma: Still a debate. Duke Neurosurgery Research Day, Durham, NC, June 2014.
66. Kang JH, Healy P, Herndon J, Lipp ES, Peters KB, Vlahovic G, Sampson JH, Friedman HS, Friedman AH, Desjardins A, **Adamson DC**. Levetiracetam’s Effectiveness in Preventing Post-operative Seizures in Malignant Glioma: Still a debate. Duke School of Medicine AOA Conference, Durham, NC, August 2014.
67. Hatef JB, Obiga O, Taremwa B, Ssenyojo H, Muhumuza M, Hagland M, Schroeder K, **Adamson DC**. Central Nervous System Tumor Distribution at a Tertiary Referral Center in Uganda. Duke School of Medicine AOA Conference, Durham, NC, August 2014.
68. Kang JH, Healy P, Herndon JE II, Lipp ES, Peters KB, Vlahovic G, Sampson JH, Friedman HS, Friedman AH, Desjardins A, **Adamson DC**. Levetiracetam and other Anti-Epileptic Drug Use in Post-operative Seizure Management in Malignant Glioma: A single institution study. Society for NeuroOncology Annual Meeting, Miami, FL, November 2014.

Consultant appointments: RTI Surgical, Inc.

Professional awards and special recognitions:

- 1987 Bridgewater College President Merit Scholar (highest academic distinction at BC)
- 1987 Walmart Foundation Academic Scholar Award
- 1988 Outstanding James Madison University Marching Band Member Award
- 1988 Anna M.B. Shaw & E. B. Bonsack Scholar Pre-med Scholar Award
- 1988 Floyd & Minnie Laughrun Pre-med Scholar Award
- 1988 Bruce Forward Most Outstanding Pre-med Scholar Award
- 1988 John Wine Most Outstanding Pre-med Scholar Award
- 1989 University of South Alabama College of Medicine Neuroanatomy Fellowship
- 1989 Bridgewater College Alumni Junior Scholar Award
- 1989 Bridgewater College Christian Experience Scholar Award
- 1989 Bridgewater College E.M. Petcher Memorial Scholar Award
- 1989 Bridgewater College Alumni’s Grand Phonic Telethon Award
- 1989 Bridgewater College Outstanding Service Award as Class President
- 1990 Bridgewater College Outstanding Service Award as Student Body President
- 1991 Adolf Meyer Medical Scholar Award
- 1991 Morris Shapiro Medical Scholar Award
- 1991 Johns Hopkins University School of Medicine Dean’s Medical Scholar Award
- 1991 *USA Today’s* All USA College Academic Team
- 1991 Who’s Who Among Students in American Universities and Colleges
- 1991 Bridgewater College Outstanding Service Award as Student Body President
- 1991 Society for Collegiate Journalist Award for Outstanding Leadership

- 1991 Outstanding Bridgewater College Yearbook Member Award
- 1992 Joanna F. Reed Medical Scholar Award
- 1992 James L. Claybrook Medical Scholar Award
- 1993 Johns Hopkins University School of Medicine Department of Medicine, Division of Genetics Fellowship
- 1994 Johns Hopkins University School of Medicine Neuroscience Department Fellowship
- 1998 David Israel Macht Young Investigator Research Award, Johns Hopkins University School of Medicine (most outstanding research thesis in School of Medicine)
- 1998 McAlpin Award for research in psychiatric diseases, Johns Hopkins University
- 1998 Johns Hopkins University School of Public Health MPH Scholarship Award
- 1998 Johns Hopkins University Graduate Student Association Research Poster, 1st Place
- 2001 Bridgewater College “Top 20 Alumni of All Time” Award
- 2003 Kenneth Shulman Research Award, Pediatric Section, American Association of Neurological Surgery/Congress of Neurological Surgery
- 2003 Bridgewater College Young Alumnus Award (most promising alumni under 40)
- 2004 American Brain Tumor Association Research Fellow
- 2004 AANS Neurosurgery Research Education Foundation Research Fellow
- 2004 National Cancer Center Research Fellow
- 2005 Preuss Resident Research Award, Tumor Section, American Association of Neurological Surgery/Congress of Neurological Surgery
- 2005 World Federation of Neurosurgical Societies Young Neurosurgeon Award
- 2006 McCravey Basic Science Research Award, Southern Neurosurgical Society
- 2006 Ronald L. Bittner Award, American Association of Neurological Surgery
- 2006 Kenneth Shulman Research Award, Pediatric Section, American Association of Neurological Surgery/Congress of Neurological Surgery
- 2006 Durham VA Medical Center Special Contribution Award for “instrumental in the ongoing success of the Neurosurgery program...instrumental in proposing & implementing new initiatives and techniques that have significantly improved patient care...is an invaluable resource for the Surgical Service.”
- 2007 Executive Career Field Performance Award, Durham VA Medical Center
- 2008 Represented Bridgewater College at Inauguration of 15th President of Bennett College, NC
- 2009 Duke Medical Center Master Clinician/Teacher Award nominee
- 2009 Bridgewater College Board of Trustees (Student Life, Chair; Academic Affairs Committees)
- 2010 Duke Medical Center Master Clinician/Teacher Award nominee
- 2011 Fellow of the American College of Surgeons
- 2012 Walter E. Dandy Neurosurgical Society
- 2014 Duke Medical Center Research Mentoring Award for basis science, “*distinguished nominee*”

Organizations and participation:

- 2005-Present American Association for the Advancement of Science, member
- 2005-Present American Association for Cancer Research, member
- 2005-Present American Association of Neurological Surgeons (AANS), member
- 2005-Present Congress of Neurological Surgeons (CNS), member
- 2005-Present AANS/CNS Joint Section on Tumors, member
- 2005-Present American Medical Association, member
- 2005-Present Duke Comprehensive Canc Ctr, member (Neuro-Oncology, Genetics & Genomics)
- 2005-Present Duke Preston Robert Tisch Brain Tumor Center, member

2005-Present Southern Neurosurgical Society, member
 2006-Present Duke Neurosurgery BrainDocs Softball Team, Coach (Columbia Neurosurgery Program's New York City Tournament for Pediatric Brain Tumors participant)
 2006-Present Duke University School of Medicine First Year Course, Director
 2006-Present Duke University School of Medicine First Year Course Directors Committee
 2006-Present Duke University School of Medicine First Year Promotions Committee, member
 2007-2008 Duke Comprehensive Cancer Center Editorial Advisory Committee, member
 2007-Present AANS Young Neurosurgeon Committee, member
 2007-Present AANS International Outreach Committee, member
 2007-Present Duke Symphony Orchestra, French Horn
 2008-2010 Duke Medical Education Planning Committee, member
 2008-Present AANS Neurosurgery Research Education Foundation Committee, member
 2008-Present Duke SIGN (Student Interest Group in Neurology/Neurosurgery), Faculty Advisor
 2009-2010 Durham VA Medical Center Process Team Action Committee, Chairman
 2009-2010 AANS YNC Silent Auction Committee, member
 2009-Present Bridgewater College Board of Trustees, Active Member
 2009-Present Bridgewater College Board of Trustees, Student Life Committee, Chair
 2009-Present Bridgewater College Board of Trustees, Academic Affairs Committee, member
 2009-Present Durham VA Medical Center Executive Committee for the Medical Staff, member
 2009-Present Duke School of Medicine Curriculum Committee, member
 2009-Present Duke School of Medicine 3rd Year Pharmacology, Cancer & Cell Biology, Director
 2010-2011 AANS YNC Charity Softball Tournament Committee, member
 2010-Present AANS/CNS Communications and Public Relations Committee, member
 2011-Present Duke Medicine Orchestra, French Horn, Board member
 2011-Present World Federation Neurological Societies/AANS/CNS Equipment Donation Com.
 2011-Present Veterans Affairs Disease Focus Expert Panel for Glioblastoma
 2011-Present World Federation Neurological Societies Coord. Com. for International Initiatives
 2012-Present Durham VA Medical Center Protected Peer Review Committee
 2012-Present Southern Neurosurgical Society, Executive Committee
 2012-Present Duke Neurosurgery Residency Core Competency Committee
 2014-Present National VA Surgical Advisory Board for Neurosurgery

Journal/Grant Reviewer/Editor:

2004-Present *Clinical Cancer Research*
 2004-Present *Journal of Neuro-Oncology*
 2006-Present National Institutes of Health Grants
 2009-Present *Cancer*
 2009-Present *Cancer Research*
 2009-Present *Journal of Neuroscience*
 2009-Present *Molecular Cancer Therapeutics*
 2010-Present *Oncology*
 2010-Present *World Journal of Surgical Oncology*
 2010-Present *Medical Oncology*
 2010-Present *JAMA*
 2011-Present *Medical Principles and Practice*
 2011-Present *New England Journal of Medicine*
 2011-Present *Oncogene*
 2011-Present *British Journal of Surgery*

2011-Present *Journal of Clinical Neurology*
2011-Present Thieme textbooks (various)
2012-Present American Brain Tumor Association Discovery Grants
2012-Present *Journal of Neurosurgical Sciences*
2012-Present *Journal of Surgical Technique*
2012-Present *Expert Opinion in Investigational Drugs*
2012-Present *International Journal of Medical Science*
2012-Present *Journal of Neurosurgical Science*
2012-Present *Molecular Neurobiology*
2012-Present *Journal of Egyptian National Cancer Institute*
2012-Present *Portuguese Foundation for Science and Technology Grants*
2012-Present *African Journal of Pharmacy and Pharmacology*
2013-Present *Expert Review of Anticancer Therapy*
2013-Present *Future Neurology*
2013-Present *BioMed Central Research Notes*
2013-Present *Neurosurgery Journal, Editorial Board*
2013-Present *Ear and Hearing*
2014-Present *Future Medicine*
2014-Present *International Journal of Oncology, Editorial Board*
2014-Present *Expert Opinion in Therapeutic Targets*
2014-Present *Therapeutic Targets for Neurological Diseases, Editorial Board*
2014-Present *Case Reports: Open Access, Editorial Board*
2014-Present *BMJ Case Reports*
2014-Present *Journal of Neurology*
2014-Present *Journal of International Medical Research*
2014-Present *Medicine*
2014-Present *Translational Oncology*

Teaching responsibilities including continuing education:

National teaching responsibilities

2009-2010 Faculty, Goodman Neurosurgery Oral Board Exam Course

Duke Course Directorships:

2009-Present Co-Director, Molecular Medicine Study Program (Oncological Sciences Track) for 3rd Year Medical Students

2006-Present Co-Director, Brain & Behavior Course for 1st Year Medical Students; administration, organization, and teaching of entire course; lecturer, laboratory instructor.

2005-Present Brain & Behavior Course for 1st Year Medical Students; lecturer, laboratory instructor.

2005-Present Director, Fundamentals of Neurosurgery Conference for residents; held once a week over the entire year; teaches fundamental neuroscience and neurosurgical concepts to neurosurgery residents; developed web-based teaching module

<u>M.D./Ph.D. students:</u>	<u>Period</u>	<u>Current position (awards while working with me)</u>
Nikol Mladkova	6/08-8/08 6/09-7/09	Charles University School of Medicine, Czech Republic (won 3 rd place award nominated for presentation at National Research Contest)
Lisa McPatter	7/07-7/08	PhD student, NCSU, Raleigh, NC
Jonathan Nakhla	7/08-7/09	Neurosurgery Resident (won American Brain Tumor Association Research Award)
Stephen Harward	7/09-7/10	MSTP/Wakeman Scholar MD/PhD, Neurobiology, Duke
Lindu Wu	1/10-3/10	University of New South Wales School of Medicine, Australia
Emily Hsieh	7/11-7/12	Duke-NUS student
James Lin	7/11-7/13	Duke-NUS MD/M.S. student, Neurobiology, Duke
Ranjith Babu	7/10-12/14	Duke University School of Medicine (AANS research fellowship, AMA research award, Medical Student in Aging Research (MSTAR) scholar, ABTA fellowship, American Geriatrics Society mtg Best Poster, CNS Stryker Neuro-Oncology award, Duke Honors for thesis)
Sarah Moustafa	7/10-7/11	Medical student, Duke
Michael DeLong	7/10-7/13	Medical student, Duke
Brooke Coleman	7/10-7/12	Medical student, Duke
Kevin Huang	7/10-7/12	Medical student, Duke
Jacob Bagley	7/10-7/14	Medical student, Duke
Jeff Hatef	7/13-12/14	Medical student, Duke
Jennifer Kang	7/13-12/14	Medical student, Duke
Gustavo Gazcon	7/13-12/14	Medical student, Duke
Daniel Goltz	7/13-12/14	Medical student, Duke
Terrance Verla	7/13-12/14	Medical student, Duke
Parastou Fatemi	7/13-12/14	Medical student, Duke
Aladine Elsamadicy	7/13-12/14	Medical student, Duke
<u>Neurosurgical Residents:</u>	<u>Period</u>	<u>Current position (extensively mentored by me)</u>
Lee Selznick, MD	7/05-12/05	Neurosurgeon, Winchester, VA
Keyne Thomas, MD	1/06-6/06	Pediatric Neurosurgeon, FL
Ciaran Powers, MD, PhD	7/06-12/06	Assistant Professor of Neurosurgery, Ohio State Univ.
Peter Grossi, MD	1/07-6/07	Assistant Professor of Neurosurgery, Duke Raleigh
Daniel Clayton, MD, PhD	7/07-12/07	Assist. Prof. of Neurosurgery, Mayo Clinic, Rochester, MN
William Gump, MD	1/08-6/08	Pediatric Neurosurgery, Norton Neurosci Inst, KY
Bill Whitlatch, MD, PhD	1/08-6/08	Clinical Assistant Professor of Neurosurgery, UCSF
Hamid Aliabadi, MD	7/08-1/09	Clinical Assistant Professor of Neurosurgery, UCSF
Ben Waldau, MD	1/09-6/09	Neurovascular Fellow, University of Florida
Stephen Parker, MD	7/09-12/09	Neurosurgeon, Jacksonville, FL
Chuck Kanaly, MD	1/10-6/10	Assistant Professor of Neurosurgery, Boston University
Shahid Nimjee, MD, PhD	7/10-12/10	Neurovascular Fellow, Duke
Renee Reynolds, MD	12/10-7/11	Pediatric NSU Fellow, Univ. of Washington
Isaac Karikari, MD	7/11-7/12	Spine Fellowship
Ankit Mehta, MD	7/11-7/12	Private practice
Betsy Hughes Grunch, MD	7/11-7/12	Private practice, GA
Amitoz Manhas, MD	7/12-7/14	University of Washington Fellowship

Jonathan Choi, MD	1/13-7/14	Private practice, GA
Ryan Owens, MD	7/13-12/13	Chief Resident, Durham VA Medical Center
Tiffany Hodges, MD	1/14-4/14	Chief Resident, Durham VA Medical Center
Matt Hazzard, MD	5/14-7/14	Chief Resident, Durham VA Medical Center
Vijay Agarwal, MD	7/14-12/14	Chief Resident, Durham VA Medical Center
Andrew Marky, MD	7/14-12/14	Chief Resident, Durham VA Medical Center

Post-Doctoral Fellows:	Period	Current position (awards while working with me)
Kathy Bortoff, PhD	1/06-1/08	Research Associate, Duke (won NIH Postdoc. Training Grant in Fundamental & Translational Neuroscience)
Jinrong Fu, MD, PhD	1/07-3/08	Research Associate, Johns Hopkins University
Ningjing Lin, MD	7/07-3/08	Oncologist, Beijing Cancer Hospital, Beijing, China
Okezie Kanu, MD	6/08-12/08	Neurosurgeon, Lagos University Teaching Hospital, Lagos, Nigeria (won AANS International Fellowship)
Zhigang Tian, MD	8/09-8/10	Neurosurgeon, Beijing Luhe Hospital, Beijing, China
Ninghai Chen, MD	7/11-12/11	Gynecological surgeon, Beijing, China
Brian Fee, PhD	7/11-7/14	Research Associate, Duke
Mirian Rivas, PhD	7/11-7/14	Research Associate, Duke
Chun-Sheng Kang, MD, PhD	7/12-7/14	Neurosurgeon, Tianjin, China
Liang Zeng, MD, PhD	7/12-7/14	Neurosurgeon, Wuhan, China

Undergraduate Students:	Period	Current position (awards while working with me)
Peter Dray	12/05-12/06	Traveling Fellowship, Germany
Peter Truszowski	7/07-12/07	MD/MBA Student, Harvard University, MA (won Undergraduate Research Award, honor graduate)
Austin Mattox	7/08-7/11	MSTP MD/PhD student, Duke (Danneburg Research Award, Undergrad. Reseach Award x3, Sigma Xi Award, Pasteur Institute, NIH research scholar, honor graduate)
Lisa Modlin	8/08-6/09	Duke University
Jieyan Zhang	6/09-12/09	NC State University
Jongkun Park	11/09-7/10	Duke University
Lena Jia	7/10-7/11	Duke University
Jenny Li	11/09-7/12	MD student, deciding where to go
Mathew Rivard	7/10-7/12	PA student, deciding where to go
Marianne Hurtado	7/11-9/12	Emory and Henry University
Mrinalini Prasanna	7/11-7/14	Univ of PA med school (Duke Howard Hughes scholar)
Serena Dai	7/11-7/12	University of Rochester Medical School
Pu Jing	5/12-7/13	Undergraduate student, UNC

Areas of research interests (basic and applied):

- Molecular understanding of high grade CNS glioma oncogenetics and signaling pathways.
- Molecular understanding of migration and stem cells in high grade gliomas.
- Local and international brain tumor biorepositories.
- Brain tumor institutional and national databases.
- Exploring prognostic value of brain tumor-specific antigens in clinical specimens.
- Using nanoparticle technology to target brain tumor-specific antigens.

- Surgical treatment of primary and secondary brain tumors.
- Exploring prognostic factors and outcomes of spinal disorders in veterans.
- Surgical treatment of spinal disorders in veterans.

External support (past and present) - gifts, grants, and contracts:

	<u>PI</u>	<u>%Effort</u>	<u>Purpose</u>	<u>Approximate Amount</u>	<u>Duration</u>
a) Past:					
National Research Education Foundation, AANS	Adamson	30%	Investigation of novel molecular markers in high grade gliomas. Genome wide screening of high grade gliomas for alterations and validation with PCR and FISH.	\$70,000	2004-2006
National Cancer Center	Adamson	30%	Investigation of novel molecular markers in high grade gliomas. In vitro systems to explore the role of specific genetic alterations in high grade gliomas.	\$70,000	2004-2006
American Brain Tumor Association	Adamson	30%	Investigation of novel molecular markers in high grade gliomas. Studied altered gene and protein expression and its correlation with histology and survival.	\$70,000	2005-2010
P50 CA108786 NIH/SPORE	Bigner	5%	Molecular oncogenetic studies in brain tumors. This study investigates the biological functions of tumor specific genes in order to identify novel molecular markers for GBM as potential targets.	\$100,000	2005-2007
K12 CA100639-02 NIH/NCI	Lyerly	75%	Discovery of novel markers and therapy development in high grade central nervous system gliomas. Performed digital karyotyping on primary tumors, xenografts, and glioma cells to identify novel genomic alterations.	\$340,569	2005-2009

IMR Institute For Medical Research, Inc.	Adamson	25%	Characterize the role of novel oncogene OTX2 in retinoblastoma tumors.	\$15,000	2011-2012
b) Present:					
I01BX007080 VA Merit Review Biomedical Lab. Res & Dev Service of the VA Office of Res & Dev	Adamson	50%	Characterize the role of novel invasion-related genes in glioblastoma. This study builds on discoveries from our genome-wide screens.	\$1,513,000	2011-2014
Durham VAMC Brain Tumor Biorepository	Adamson	5%	Durham VAMC Brain Tumor Biorepository. Collection and storage of surgical brain tumor specimens for current and future scientific investigation.	N/A	2006-Present
I101RX000798-01A3 VA Merit Review Biomedical Lab. Res & Dev Service of the VA Office of Res & Dev	Adamson, Weiner	15%	Toward optimizing decompressive laminectomy outcomes: looking outside the spine.	\$1,413,000	2014-2018
Industry sponsored	Adamson	10%	Comparison of flowable versus nonflowable hemostatic agent in spine surgery	\$70,000	2015-2016
Industry sponsored	Adamson	10%	Photodynamic therapy in pituitary adenomas	\$20,000	2015-2016

Type and distribution of clinical, research, educational, and administrative commitment:

Academic neurosurgery with an emphasis on clinical and laboratory investigations in neuro-oncology, teaching of medical students and neurosurgery residents, and furthering the goals of organized neurosurgery nationally and internationally.

Clinical - clinical responsibility includes general adult neurosurgery with an emphasis on neuro-oncology.

Research - independent and collaborative research within Emory and the Atlanta VAMC, and other institutions; laboratory investigations focus on neuro-oncology; clinical investigations cover neuro-oncology and various conditions in degenerative spine disease in the veteran population.

Education –primary educational responsibilities include one-on-one teaching of medical students and neurosurgery residents, directing/lecturing neurosurgery departmental conferences, publishing educational materials, and teaching at various institutional, regional, national, and international committees.

Administrative - administrative responsibilities include serving as Chief of Neurosurgery at the Atlanta VAMC, directing a neuro-oncology laboratory, and serving on various institutional, regional, national, and international committees.