

**CURRICULUM VITAE****Dennis Eugene Bullard, M.D.**

- Education:**            Parkin High School .....1967  
 Attended USC after Junior year of high school in the Summer  
 Honors Program
- University of Southern California .....1967-1971  
 Entered USC in the Resident Honors Program after  
 graduating junior year of high school
- |                                     |           |
|-------------------------------------|-----------|
| Summer Honors Program               | 1967      |
| Resident Honors Program             | 1967-1968 |
| University Scholar                  | 1967-1969 |
| Nettie Hill Scholar                 | 1970-1971 |
| Sigma Phi Epsilon Scholarship Award | 1970-1971 |
| Major: Psychology BA, Cum Laude     |           |
- St. Louis University Medical School .....1971-1975
- |                                 |           |
|---------------------------------|-----------|
| Alpha Omega Alpha               | 1974      |
| Thurston Scholar                | 1974-1975 |
| Robert Wood Johnson Scholarship | 1975      |
| MD, Cum Laude                   | 1975      |
- Internship:**            General and Thoracic Surgery .....1975-1976  
 Dr. David C. Sabiston  
 Duke University Medical Center  
 Durham, North Carolina
- Residency:**            Neurological Surgery
- |                                |               |
|--------------------------------|---------------|
| Assistant Resident             | 6/1976-6/1978 |
| Chief Resident                 | 6/1980-6/1982 |
| Dr. Guy L. Odom                |               |
| Dr. Robert H. Wilkins          |               |
| Duke University Medical Center |               |
| Durham, North Carolina         |               |

**Residency (Continued)**

Medical Neurology.....6/1979-6/1980  
 Professor W. Ian McDonald  
 Institute of Neurology  
 National Hospitals for Nervous Disease  
 Queen Square and Maide Vale  
 London, England

**Fellowships:**

Immunology 6/1977-6/1979  
 NIH Postdoctoral Fellowship  
 Teacher Investigator Award  
 Darrell D. Bigner, M.D., PhD  
 Duke University Medical Center  
 Durham, North Carolina

Neuro-Oncology 6/1979-6/1980  
 Postdoctoral Fellowship  
 Mr. David Thomas, FRCS, MRCP  
 Gough-Cooper Department of Neurological Surgery  
 University of London  
 National Hospitals for Nervous Disease  
 London, England

**Employment History:**

Triangle Neurosurgery, PA 2000-Present  
 Raleigh, North Carolina  
 Founding Partner

Raleigh Neurosurgical Clinic, Inc. 1987-2000  
 Raleigh, North Carolina

Managing Partner 1996-2000

Duke University Medical Center  
 Durham, North Carolina

Assistant Professor of Neurosurgery 1982-1987

Associate Professor of Neurosurgery 1987

Tenured 1987

Assistant Professor of Pathology 1982-1987

Co-Director Brain Tumor Clinic 1982-1987

**Certification/ Licensure:**

<u>National Board of Medical Examiners</u> License # 159219	1975
<u>American Board of Neurological Surgery</u> Part 1	1980
Part 11	1984
<u>North Carolina Board of Medical Examiners</u> License # 26088	1982 2001

**Professional Societies:**

<u>Congress of Neurological Surgeons</u>	1982
<u>American Association of Neurological Surgeons</u>	1984
Joint Section on Tumors Founding Member	1984
Membership Chairman	1984-1987
Secretary	1987-1991
Chairman	1991-1993
Executive Committee	1987-2000
Advisory Board	1987-2000
<u>Research Society of Neurological Surgeons</u>	1986
<u>Society of University Neurosurgeons</u>	1986
<u>American Society of Stereotactic and Functional Neurosurgery</u>	1980
Board of Directors	1988-1989
Vice President	1990-1992
President	1992-1995
<u>Duke Children's Hospital and Duke University Medical Center – Brain Tumor Program</u> Board of Advisors	1992
<u>Duke University Heritage Society</u>	2001
<u>Society of British Neurological Surgeons</u>	1980

**Professional Societies (Continued)**

<u>Radiation Therapy Oncology Group (RTOG)</u>	1996
Chairman of Neurosurgery Section	1996
Chairman, Joint Section on Brain Tumors	1996
Brain Tumor Committee	1996
Co-Chairman	2001
Co-Chairman Surgical Oncology	2001
 <u>Royal Society of Medicine</u>	 1995-present
 <u>Acoustic Neuroma Association</u>	 1996
Life Membership	1998
 <u>Royster Medical Society</u>	 1997-2006
 <u>American Cancer Society - North Carolina</u>	
Board of Trustees	1991-1992
 <u>NC Medical Society</u>	
Task Force on Professional Liability	2002-present
 <u>International Research Group on Paroxysmal Sympathetic Hyperactivity After Acquired Brain Injury</u>	 08/2010-Present

**Academic Appointments:**

<u>Duke University Medical Center</u>	
Assistant Professor of Neurosurgery	1982-1987
Associate Professor of Neurosurgery	1987
Tenured	1987
Assistant Professor of Pathology	1982-1987
Co-Director Brain Tumor Clinic	1982-1987
 <u>University of North Carolina Medical Center</u>	
Associate Clinical Professor of Neurosurgery	1993-present
 <u>Wake Forest University School of Medicine</u>	
Clinical Affiliate in Radiation Oncology	2000-2003
 <u>Duke University Medical Center</u>	
Consulting Associate for Department of Surgery	2009-2014

**Editorial Appointments:**

Cancer Research	
Journal of Neuro-Oncology	
Neurosurgery	

**Administrative:**

<u>Duke University Medical Center</u> Brain Tumor Research Program Advisory Board	1993-present
<u>North Carolina Industrial Commission</u> Member Liaison Committee	1992-1996
<u>Rex Healthcare - Raleigh, North Carolina</u> Chairman, Section of Neurosurgery	1991-2005
Chairman, Department of Surgery	1993-1994
Medical Executive Committee	1993-1994

**Course Director:**

<u>Course Director: A Workshop on Stereotactic And Functional Neurosurgery</u> The Omni Hotel at Charleston Place Charleston, South Carolina	1986,1987 & 1988
<u>Pain Symposium: Current Concepts in the Treatment of Pain</u> Rex Healthcare, Raleigh, North Carolina	9/97

**Invited Presentations /Visiting Professorships:**

<u>Third Conference on Brain Tumor Therapy</u> Monterey, California	10/30/79
<u>British Brain Research Association Symposium</u> Institute of Neurology, Queens Square, London	2/16/80
<u>Department of Neurological Surgery</u> Frenchay Hospital, Bristol, England	4/30/80
<u>Department of Neuropathology</u> University of Southampton, Southampton, England	5/21/80
<u>Institute of Psychiatry, Maudsley Hospital</u> London, England	5/28/80
<u>Neurolirugiska Cliniken, Lund Universitet</u> Lund, Sweden	6/9/80
<u>Gade Institute, University of Bergen</u> Bergen, Norway	6/3/80

## Invited Presentations/Visiting Professorships (Continued)

<u>Washington University</u> St. Louis, Missouri	10/05/81
<u>National Cooperative Brain Tumor Study Group</u> Washington, DC	10/82
University of Tennessee Memphis	10/21/83
<u>Fifth Brain Tumor Research and Therapy Conference</u> Monterey, California	10/26/83
<u>Second International Symposium on Brain Tumors</u> London, England	10/25/84
<u>Department of Neurosurgery, Newcastle University</u> Newcastle-Upon-Tyne	10/29/84
<u>Sixth International Conference on Brain Tumor</u> Research and Therapy Asheville, North Carolina	10/21/85
<u>Southern Medical Society</u> Orlando, Florida	11/19/85
<u>Department of Neurosurgery, Emory University</u> Atlanta, Georgia	12/7/85
<u>International Symposium on Monoclonal Antibodies</u> <u>in Nuclear Medicine</u> Freidurg, FRG	5/2/86
<u>St. Mary's Medical Center</u> St. Louis, Missouri	6/25/86
<u>State University of New York</u> Syracuse, New York	10/1/87
<u>Tagung der Arbeitsgruppe Neuro-Onkologie</u> Tubingen, Germany	11/87
<u>Hospital Juarez IV</u> Mexico City, Mexico	12/87
<u>National Institute for Neurology and Neurosurgery</u> Mexico City, Mexico	12/87

### Invited Presentations/Visiting Professorships (Continued)

<u>Massachusetts General Hospital</u> Harvard Medical School, Boston, Massachusetts	1/88
<u>Montreal General Hospital, McGill University</u> Montreal, Canada	2/88
<u>The American Association of Neurological Surgeons</u> "Surgery for Epilepsy" Nashville, Tennessee	5/90
"Glioma: Current and Future Therapy" Nashville, Tennessee	5/90
<u>Mid-Atlantic Neurosurgical Society</u> "Neurosurgical Procedures for the Treatment of Cancer Related Pain" Philadelphia, Pennsylvania	4/91
<u>The American Society for Stereotactic &amp; Functional Neurosurgery</u> "Ablative Procedures in Cancer Pain Management" Pittsburgh, Pennsylvania	6/91
<u>Harvard Medical School</u> "Tumors of the Central Nervous System" Boston, Massachusetts	11/92
<u>University of Miami</u> "Surgical Treatment of Brain Tumors" Miami, Florida	1/93
<u>Harvard University</u> "Oligodendrogliomas" Boston, Massachusetts	2/93
<u>Society of University Neurosurgeons</u> Lyon, France	6/15-18/94
<u>Congress of Neurological Surgeons</u> "DREZ for Recurrent Head and Neck Pain" Chicago, Illinois	10/94
<u>Congress of Neurological Surgeons</u> "Update on Techniques in Stereotactic Biopsy" Chicago, Illinois	10/94

## Invited Presentations/Visiting Professorships (Continued)

<u>World Society for Stereotactic &amp; Functional Neurosurgery</u>	07/97
"Experience with the Caudalis DREZ In the Treatment of Facial Pain" Lyon, France	
<u>1st European International Symposium on DREZ Operation</u>	11/97
"The Nucleus Caudalis DREZ" Pamplona, Spain	
"Ablative Pain Techniques" San Francisco, California	4/98
<u>Congress of Neurological Surgeons</u>	10/98
"Surgery & Radiosurgery in the Management of Intracranial Metastatic Disease" Seattle, Washington	
<u>Advances in Craniofacial Pain</u>	10/98
"Caudalis DREZ for Facial Pain" Rome, Italy	
<u>50th Anniversary Meeting of Egyptian Neurosurgical Society</u>	3/99
"Surgical Treatment of Facial Pain" Military Medicine Academy Cairo, Egypt	
<u>International Symposium: Cerebellopontine Angle &amp; Posterior Fossa Lesions</u>	5/99
"The Role of Caudalis DREZ in the Treatment of Facial and Head and neck Pain" Raleigh, North Carolina	
<u>International Symposium: Cerebellopontine Angle &amp; Posterior Fossa Lesions</u>	5/99
"Facial Nerve Outcome in Acoustic Tumor Surgery" Raleigh, North Carolina	
<u>Congresso Nazionale Della Neurologie,</u>	5/28/99
"Evolution of Principles of Stereotactic Neurosurgery" Neurochirurghi, E Neuroradiologi, Ospedaleri Rome, Italy	
"Neurosurgical Treatment for Pain" Ospedale San Filippo Neri Rome, Italy	5/28-31/99



## Invited Presentations/Visiting Professorships (Continued)

European Society for Stereotactic and Functional Neurosurgery Toulouse, France	10/9-12/02
“Surgical Treatment of Primary and Metastatic Brain Tumors” Italian Neuro-Oncology Meeting Ancona, Italy	10/2-4/03
<u>North Carolina Spine Society</u>	
“New Technologies in the Surgical Management of Cervical Spine Pathologies” “Management of Multilevel Cervical Disease” Charlotte, North Carolina	10/28/06
“The Role of Stand-Alone Anterior Cervical Surgery”	8/24-25/07
Complex Surgical Techniques for Treating Cervical Spine Pathology “When is a Combined Anterior/Posterior Approach Needed?” “Revision or Salvage Techniques for Failed Cervical Arthroplasty” Baltimore, Maryland	6/15-16/07
“Are Multi-Level ACDFPs Associated with Higher Peri-operative Morbidity?” Charlotte, NC	9/5-6/2008
“Minimally Invasive Spine Surgery: AxiaLif in the Treatment of Lumbar Degenerative Disc Disease” Pinehurst, NC	8/28-29/09
<u>Association of Presacral Spine Surgeons</u> “Degenerative Disc Disease with Radiculopathy”	10/4/08
“Newer Minimally Invasive Surgical Approaches” for Lumbar Problems” Pinehurst, NC	4/18/09
“Are Multilevel Anterior Cervical Discectomies and Fusions Associated with Higher Peri-Operative Morbidity?” Charlotte, NC	8/27-28/2010

**Invited Presentations/Visiting Professorships (Continued)**

“Creation of Radiographic Grading Systems for Bone Formation in ACDF Utilizing Cages and Biologics” Denver, Colorado E-poster	11/10
“Reliability and Reproducibility of Standard Methods of Evaluating Cervical Surgery Results” Charlotte, NC	8/17-18/12
“Minimally Invasive Lumbar Fusion Techniques Lab – Spine Select” Raleigh, NC	9/15/12
“Grading Scale for Anterior Cervical Discectomy and Fusion (ACDF)” Kiawah, SC	8/23-24/13

**Current Academic Affiliations:**

International Research Group on Paroxysmal Sympathetic Hyperactivity After Acquired Brain Injury	8/20/10
Consulting Associate in the Department of Surgery Duke University Medical Center	7/1/10 - 6/30/11
Consulting Associate in the Department of Surgery Duke University Medical Center	7/1/11 - 6/30/12

**Visiting Surgeon:**

Hospital Juarez Mexico City, Mexico	1987
University Hospital Colombo, Sri Lanka	1994
Clinica Universitaria University of Navarra Medical School Pamplona, Spain	11/97
Ospedale Felipo Neri Rome, Italy	1998
Rothchild Institute Paris, France	1999-2002
Hospital Universitaire Dupuytren	1999-2002

Limoges, France

University of Ancona  
Ancona, Italy

2003

**Awards:**

<u>Eagle Scout</u>	1964
<u>Silver and Gold Palms</u>	1965
<u>God and Country Award</u>	1965
<u>University of Southern California</u>	
Summer Honors Program	1967
Resident Honors Program	1967-1968
University Scholar	1967-1969
Nettie Hill Scholar	1970-1971
Sigma Phi Epsilon Scholarship Award	1970-1971
Major: BA Psychology, Cum Laude	1971
<u>St. Louis University</u>	
Alpha Omega Alpha	1975
Cum Laude	
Thurston Scholar	1974-1975
Robert Wood Johnson Scholarship	1975
MD, Cum Laude	1975
<u>Duke University Medical Center</u>	
Individual Research Training Award	1979
<u>Duke Comprehensive Cancer Center</u>	
National Research Service Award	1980
NCI Grant 1 32 CA 06680-01	
"Neuropathological Investigation of Human Glioma Patients"	
<u>The Southern Neurosurgical Society</u>	
Resident's Award	1980
Outstanding Young Men of America Award	1981
<u>Admiral Chambliss Memorial Award</u>	1981
Navy League of the United States	
<u>Academic Council Duke University</u>	1985
C. and F. Demuth Foundation International Award	1982
for Young Investigators in Neuroscience,	
Given by Swiss Medical Research Society	
<u>NINCDS Teachers Investigators Development Award</u>	1983-1988
(Localization of Monoclonal Antibodies in	
Human Gliomas #1 K07NS00800-01)	

**Awards (Continued)**

<u>NINCDS Program Project on Malignant Human Gliomas and Medulloblastomas</u> (Subproject: Optimal delivery of Monoclonal Intracranial Human Gliomas and Medulloblastomas in Immunosuppressed Rats P01-NS20023)	1984-1989
<u>American Cancer Society Institutional Award</u> (Determination of Optimal Route of Administration of Monoclonal Antibody for Human Glioma Growing Intracranially in Immunosuppressed Rats)	1983-1984
<u>VA Merit Review Board Award</u> (Phase I Imaging and Therapeutic Trials with Anti-glioma Monoclonal Antibodies)	1986-1990
<u>Best Doctors in America</u>	1997-1998 2001-2002 2002-2003 2003-2004 2005-2006 2007-2008
<u>Business North Carolina</u> Best Doctors in the North Carolina	2002-2003 2004-2005 2006-2007 2007-2008
<u>Patients' Choice Award</u>	2009
<u>AANS 2010</u> First Place Award "Correlation Between Surgical Morbidity and Number of Levels Anteriorly Fused"	4/10

**Consultant: Acknowledgement**

Sofamor-Danek Spine Consultant	2002-2004
DePuy Spine	2007
Kyphon – Speakers Bureau	2007
Sea-Tek Product Development	2007
Trans1	2008-present
Alphatec	2010-present
Orthofix	2010-present
Spine Select	2011-present
Life Spine Consultant	2012-present

## Publications:

1. Bullard, D.E., Preissing, S.H., Pegram, C., and Bigner, D.D.: In Vitro response of cells derived from human gliomas (HGL) to dibutyryl adenosine 3': 5' cyclic monophosphate (cAMP). *J. Neuropath. Exp. Neurology* 37: 596, 1978
2. Preissig, S.H., Bullard, D. E., Pegram, C. and Bigner, D.D.: Relationship of morphologic and cell biologic characteristics of human gliomas (HGL) in cell culture to tumorigenicity in nude mice. *J. Neuropath. Exp. Neurol.* 37: 674, 1978
3. Preissig, S.H., Bullard, D. E. and Bigner, D.D.: Cytopathologic studies of permanent cultured cell lines derived from anaplastic human gliomas (HGL). *Acta Cytologica*, 22: 598, 1978
4. Bullard, D. E., Kramer, R.S. and Bigner, D.D.: Primary explanation of central nervous system tumor into the athymic "nude" mouse model. *Neurosurgery* 2: 416,1978
5. Bullard, D.E. and Bigner, D.D.: The use of athymic "nude" mice for the in vitro study of human nervous system tumors. *J. Neuropath. Exp. Neurology* 38: 306, 1979
6. Bigner, D.D., Bullard, D.E., Schold, S.C., Preissig, S.H. and Wikstrand, C.J.: Cellular heterogeneity and diversity as a basis for human gliomas. IN: Paoletti P., Wilker, M.D., Butti, G., Kreich, R. (eds)., Proceedings of the International Symposium on Multidisciplinary Aspects of Brain Tumor Therapy. pp. 329-333, Elsevier North Holland, Amsterdam, 1979
7. Bullard, D.E. and Bigner, D.D.: The heterotransplantation of human craniopharyngiomas in athymic "nude" mice. *Neurosurgery* 4: 308-314, 1979
8. Bullard, D.E., and Bigner, D.D.: Animal models and virus induction of tumors. IN: Thomas, D. and Graham, D., Eds.: Brain Tumours: Scientific Basis, clinical Investigation and Current Therapy. pp. 51-83, Butterworth and Co., London, 1980
9. Schold, S.C. Jr. and Bullard, D.E.: Cerebrospinal fluid analysis in central nervous system cancer. IN: Wood, J.H., Eds., Neurobiology of Cerebrospinal Fluid. Vol. 1, pp. 549-559, Plenum, New York, 1980
10. Bigner, S.H., Bullard, D.E., Schold, C. and Bigner, D.D.: The morphology of anaplastic human gliomas (AHG) are grown subcutaneously in athymic nude mice. *Lab. Invest.* 42: 103, 1980
11. Thomas, D.G.T., Darling, J.L. and Bullard, D.E.: An assay for evaluating the in vitro response of human gliomas to chemotherapeutic agents. *Neurosurgery.* 7: 296, 1980
12. Schold, S.C., Bullard, D.E., Bigner, S.H., Eng, L. and Bigner, D.D.: Serial transplantation of anaplastic human gliomas (HGL) in athymic mice. *Proc. Amer. Assoc. Cancer Res.* 2: 61, 1981
13. Bigner, D.D., Bigner, S.H., Bullard, D.E. and Schold, S.C.: Therapeutic implications of the cellular heterogeneity of gliomas. *Schweizer Archiv. fur Neurologie*, Vol. 126, Fasc. 2, 1981

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14. Bullard, D.E., Cox, E.B. and Seigler, H.R.: Central nervous system metastases in malignant melanoma. *Neurosurgery* 8: 26-30, 1981
15. Bullard, D.E., Bigner, S.H. and Bigner, D.D.: The morphologic response of cells derived from human gliomas to dibutyryl adenosine 3': 5' cyclic monophosphate. *J. Neuropath. Exp. Neurology* 40: 230-246, 1981
16. Bullard, D.E., Crockard, H.A., and McDonald, W.I.: Spontaneous cerebrospinal fluid rhinorrhea in association with dysplastic optic disc and a basal encephalocele. A case report. *J. Neurosurgery* 54: 807-810, 1981
17. Bigner, D.D., Bigner, S.H., Pegram, C.N., Jones, T.R., Bourdon, M.A., Schold, S.C., Bullard, Dennis E., and Wikstrand, C.J.: Etude comparative du genotype et du phenotype des cellules gliomateuses humaines. *Med. et Hyg.* 39: 1961-1969, 1981
18. Bigner, S.H., Bullard, D.E., Pegram, C.C., and Wikstrand, C.J. and Bigner, D.D.: Relationship of In Vitro morphologic and growth characteristics of established human glioma-derived cell lines to their tumorigenicity in athymic nude mice. *H. Neuropath. Exp. Neurology* 40: 390-409, 1981
19. Bullard, D.E., Schold, S.C. Jr., Bigner, S.H., and Bigner, D.D.: Growth and chemotherapeutic response in athymic mice of tumors arising from human glioma-derived cell lines. *J. Neuropath. Exp. Neurology* 40: 410-427, 1981
20. Bigner, D.D., Schold, S.C. Jr., Bigner, S.H., Bullard, D.E. and Wikstrand, C.J.: How heterogeneous are gliomas? *Cancer Treatment Report (suppl. 2)* 65: 45-59, 1981
21. Schold, S.C. Jr., Bullard, D.E., and Cool, W.A.: Central Nervous system melanoma. IN: Seigler, H.F., Ed. Clinical Management of Melanoma. pp. 211 -232, Nijhoff, Boston, 1982
22. Thomas, D.G.T., Darling, J.L., and Bullard, D.E.: The chemosensitivity of human gliomas: an in vitro assay and correlation with clinical response. *Eur. J. Cancer Clinical Oncology (suppl. 3)* 83-89, 1982
23. Bullard, D.E., Osborne, D. and Cook, W.A.: A colloid cyst of the third ventricle presenting as a ring-enhancing lesion on computed tomography. *Neurosurgery* 11: 790-791, 1982
24. Bullard, D.E., Darling, J.L., Bigner, D.D., and Thomas, D.G.T.: Specific active immunotherapy with tissue-cultured HLA mismatched human glioma cell in malignant cerebral gliomas. *J. Neurology, Neurosurgery & Psych.* 45: 946, 1982
25. Bigner, D.D., Bigner, S.H., Schold, S.C., Wikstrand, C.J., Bourdon, M.A. and Bullard, D.E.: Heterogeneity of human glioma cells in vitro and in vivo. *Neuroscience*. Vol, 7 Supplement S27, 1982

26. Bullard, D.E., Clemmons, M., Pegram, C.N., Bourdon, M.A., and Bigner, D.D.: Evaluation of different methods for the delivery of monoclonal antibody to the central nervous system. *J. Neuropath. Exp. Neurology* 42: 351, 1983
27. Bullard, D.E., Clemmons, M., Pegram, C.N., Bourdon, M.A., and Bigner, D.D.: Entry of (125I) monoclonal antibody (MA) from blood into brain. *J. Neuropath. Exp. Neurol.* 42: 351, 1983
28. Albright, R., Drayer, B., Jaszczok, R., Frani, E., Schold, C, Jr., Bullard, D.E., King, I. and Coleman, R.: In vitro analysis of human gliomas using SPECT HIPDrn glucoheptate. *Neurology* 33 (Supplement 2): 110, 1983
29. Bullard, D.E., Nashold, B.S., Jr., Osborne, D., Burger, P.C., Byrd, R., Schold, S.C., Oakes, W.J., Friedman, A., Triolo, P. and Dubois, P.: Experience using two CT guided stereotactic biopsy methods. *Applied Neurophysiology* 46: 188-192, 1983
30. Schold, S.C., Bullard, D.E., Bigner, S.H., Eng, L. and Bigner, D.D.: Growth, morphology, and serial transplantation of anaplastic human gliomas in athymic mice. *J. Neuro-Oncology* 1: 5-14, 1983
31. Osborne, D.R., Heinz, E.R., Bullard, D.E. and Friedman, A.: Role of computed tomography in the radiological evaluation of painful radiculopathy after negative myelography: foraminal neural entrapment. *Neurosurgery* 14: 1471-53, 1984
32. Bullard, D.E., and Bigner, D.D.: Blood-brain barrier disruption in immature Fischer 344 rats. *Neurosurgery* 60:743-50, 1984
33. Bullard, D.E., Saris, S.C., and Bigner, D.D.: Carotid artery injections in 99-g Fischer rats: technical note and evaluation of blood flow by various injection techniques. *Neurosurgery* 14: 406-411, 1984
34. Bullard, D.E., Nashold, B.S., Jr., Osborne, D., Burger, P.C. and Dubois, P.: CT-Guided stereotactic biopsies using a modified frame and Gildenberg technique. *J. Neurology, Neurosurgery & Psych.* 47: 590-595, 1984
35. Bullard, D.E. and Nashold, B.S., Jr.: Stereotactic thalamotomy for the treatment of posttraumatic movement disorders. *J. Neurosurgery* 61: 316-321, 1984
36. Bullard, D.E., Bourbon, M., and Bigner, D.D.: Comparison of various methods for delivering radiolabeled monoclonal antibody to normal rat brain. *J. Neurosurgery* 61: 901-911, 1984
37. Walker, J.S., Ovelmen-Levitt, J., Bullard, D.E., and Nashold, B.S., Jr.: Root entry zone lesions using a CO<sub>2</sub> laser in cats with neurophysiologic and his assessment. *Neurosurgery* 15: 265, 1984
38. Adams, C., Bullard, D.E., Clemmons, M., Bigner, S.H., and Bigner, D.D.: Heterotransplantation of D-54 MG human glioma line in cyclosporine-antithymocyte serum (Cy-ATS) treated Fischer 344 rats. *J. Neuropath. Exp. Neurology* 43: 337, 1984



39. Bigner, S.H., Burger, P.C., Mark, J., Mahaley, M.S. Jr., Bullard, D.E., and Bigner, D.D.: Relationship between karyotypic and histologic parameters of malignant human glioma (NHG). *J. Neuropath. Exp. Neurology* 43: 335, 1984
40. Bigner, S.H., Burger, P.C., Mark, J., Mahaley, M.S. Jr., Bullard, D.E., and Bigner, D.D.: Karyotypic and histologic analysis of malignant human gliomas (MHG). *J. Neuro-Oncology* 2: 264, 1984
41. Adams, C., Bullard, D.E., Bigner, S.H., and Bigner, D.P.: Intracerebral transplantation of D-54 MG human glioma line in immunosuppressed rats. *J. Neuropath.*: 2, 268, 1984
42. Schold, S.C. Jr., Friedman, H.S., Bullard, D.E., Falletta, J.M., McDonald, I., Cairncross, J.G., Mahaley, M.S. Jr., Khandekar, J.D., and Vick, N.A.: Clinical trials of diaziquone (AZQ) in patients with primary central nervous system (CNS) neoplasms. *Neuro-Oncology* 2: 289, 1984
43. Bullard, D.E., Coleman, R.E., and Bigner, D.D.: Comparison of intracarotid and intravenous delivery with and without blood-brain barrier disruptions for delivery of monoclonal antibodies. *J. Neuroimmunology* 10: 181, 1985
44. Bigner, D.D., Wikstrand, C.J., Bullard, D.E., and Coleman, R.E.: Monoclonal antibodies for immunohistochemistry and in vivo tumor localization for imaging and treatment in neurooncology. *Acta Neurochirurgica* 78: 164, 1985
45. Bullard, D.E., Thomas, D.G.T., Darling, J., Wikstrand, C., Diengdoh, J.V., Barnard, R., Bodmer, J., and Bigner, D.D.: A preliminary study utilizing viable HLA mismatched cultured glioma cells as adjuvant therapy for patients with malignant gliomas. *Br. J. Cancer* 51: 283-289., 1985
46. Thomas, D.G.T., Darling, J., Paul, E.A., Mott, T.J., Godlee, J.N., Tobias, Capra, L.G., Collins, C.D., Mooney, C., Bozek, T., Finn, G.P., Arigbabu, S.O., Bullard, D.E., Shannon, N., and Freshney, R.I.: Assay of anti-cancer drugs in culture: Relationship of relapse free interval (RFI) and in vitro chemosensitive patients with malignant cerebral glioma. *Br. J. Cancer* 51: 525-532, 1985
47. Bullard, D.E., Bigner, Sandra H, Bigner and Darrell D.: Comparison of Intravenous versus Intracarotid Therapy with 1,3-Bis(2-chloroethyl)-1-nitrosourea in a Rat Brain Tumor Model. American Association for Cancer Research: Cancer Research 45, 5240-5245, November 1, 1985
48. Burton, G.V, Bullard, D.E, Walther, P.J. Jr. and Burger, Peter C.: Paraneoplastic limbic encephalopathy with testicular carcinoma: A reversible neurologic syndrome. *Cancer*, 62:2248-2251. doi: 10.1002/1097-June 29, 2006
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