

# **CURRICULUM VITAE**

KEITH QUATTROCCHI, M.D., PhD. FACS

## **M.R.K. Medical Consultants**

6555 Coyle Avenue, Suite 235  
916/863-7301

Carmichael, California 95608  
Fax: 916/863-7206

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### **EDUCATION:**

B.S., Biochemistry  
University of California, Berkeley  
Berkeley, California (1973-1978)

B.S., Psychology  
University of California, Berkeley  
Berkeley, California (1978-1980)

M.D., Medicine  
George Washington University School  
School of Medicine (1981-1985)

Ph.D., Immunology  
University of California, Davis  
Davis, California  
Dissertation: "Immune dysfunction following severe head injury in humans" (1990-1992)

Surgical Internship  
University of California, Los Angeles  
Los Angeles, California (1985-1987)

Neurosurgical Residency  
University of California, Davis  
Sacramento, California (1987-1993)  
Completed 3/30/93

### **CERTIFICATION:**

National Board of Medical Examiners  
Parts I, II, and III.

American Board of Neurological Surgery  
Certification: May 17, 1995

**LICENSURE:**

Physician and Surgeon, Maine (current)  
Physician and Surgeon, North Carolina (current)  
Physician and Surgeon, California (current)

**DIRECTORSHIP/BOARD POSITIONS**

NSI Consulting, Inc.  
140 B Street, Suite 5  
Davis, CA 95616  
530-401-0643  
August 1, 2010-Present

Alaska Neurosurgical Associates  
3831 Piper Street, Suite S450  
Anchorage, Alaska 99508  
907-258-6999  
August 15, 2010-Present

Neurosurgical Associates Medical Group  
7130 North Sharon Avenue, Suite 100  
Fresno, Ca 93720  
Office: 559-449-1100  
Fax: 559-449-1170  
(November 1, 2006-September, 2010)

New England Neurosurgery  
99 Campus Avenue, Suite 303  
Lewiston, Maine 04240  
(12/1/95 through October 1, 2006)

Director  
Neuroscience Center  
Saint Mary's Regional Medical Center  
99 Campus Avenue; Suite 303  
Lewiston, ME 04240 (2/01/97-9/01/06)

Associate Clinical Professor  
Division of Neurosurgery  
Tufts University School of Medicine  
Boston, Massachusetts (8/00 – September 1. 2006)

Assistant Professor of Neurosurgery

Division of Neurosurgery  
University of North Carolina, Chapel Hill  
School of Medicine  
148 Burnett-Womack Building, CB# 7060  
Chapel Hill, North Carolina 27599-7060  
4/1/93-11/30/95

Director: Neuro-Oncology Section  
Division of Neurosurgery  
University of North Carolina, Chapel Hill  
4/1/93-11/30/95

Kay M and Van L Weatherspoon Professorship in Neurosurgery  
Division of Neurosurgery  
University of North Carolina, Chapel Hill  
7/1/94-11/30/95

Assistant Professor  
Lineberger Cancer Research Center  
University of North Carolina, Chapel Hill  
4/1/93-11/30/95

Assistant Professor of Medicine  
Division of Oncology  
University of North Carolina, Chapel Hill  
7/6/95-11/30/95

**PROGRAM DIRECTORSHIP**

Nathan A. Womack Surgical Society  
Dugger-Mahaley Neurosurgical Section  
Program Director  
February 2-4, 1995; UNC, Chapel Hill

SMRMC  
Neuroscience and Spine Center  
Neuro-Oncology Board (Co-Directorship)  
Monthly Meetings (2/97-9/1/06)

**ACADEMIC/ADMINISTRATIVE COMMITTEES**

University of North Carolina, Chapel Hill

- 1) Laser Committee (7/93-6/94)
- 2) Clinical Cancer Center Program Advisory Committee (7/93-6/94)

Saint Mary's Regional Medical Center

- 1) Operating Room Executive Committee (1/97-1/99 and 3/05-Present)
- 2) Cancer Committee (1/97-1/99)
- 3) Neuroscience Center Advisory Board (2/97-1/01)
- 4) Chronic Pain Center Multidisciplinary Board (2/98-2/99)
- 5) Trauma Committee (2/97-1/01)
- 6) SMRMC Executive Committee (2/97-2/99)

**AFFILIATIONS**

American Association of Neurological Surgeons  
Congress of Neurological Surgeons  
American Medical Association  
Fellow American College of Surgeons  
North Carolina Medical Society  
Society of Clinical Surgeons  
William Beaumont Medical Honor Society  
Phi Delta Epsilon  
New England Neurosurgical Society  
Maine Medical Association  
Androscoggin County Medical Society

**ACADEMIC HONORS**

Honors Research Program  
Department of Biochemistry  
University of California, Berkeley (1976-1977)

Summer Research Award  
George Washington University  
School of Medicine (1981-1982)

Lamport Biomedical Research Award  
Presentation: "High Affinity Receptors  
for Bombesin-Like Peptides on Small Cell  
Lung Carcinoma Cell Lines"  
George Washington University  
School of Medicine (1982)

William Beaumont Medical Honor Society  
Research Excellence Award  
George Washington University

School of Medicine (1982)

GWU Research Competition  
National Student Research Forum  
Research Competitions  
Galveston, Texas (1982)  
George Washington University, School of Medicine  
Honors: Biochemistry, Physiology, Surgery,  
Pediatrics and Neurosurgery (1981-1985)

American Association of Neurological Surgeons  
"The Predictive Value of Computerized  
Tomography in Head Injury Outcome"  
Poster Section Award: 1989

Alpha Omega Alpha Medical Honor Society  
George Washington University School of Medicine  
Elected to Membership, March 1, 1998

#### **GRANTS/FELLOWSHIPS**

Summer Research Fellowship  
George Washington University  
School of Medicine  
Study Title: "Investigations of High Affinity Receptors for the  
Neuropeptide Bombesin on Small Cell Lung Carcinoma"  
Major Investigator: Keith B. Quattrocchi  
Sponsor: Terry Moody, Ph.D.; Awarded 1981

University of California, Davis  
Deans Research Grant  
Study Title: "Immunocompetence Following Severe Head Injury"  
Major Investigator: Edmund H. Frank, M.D.  
Co-Investigators: Keith Quattrocchi, M.D., Franklin Wagner, M.D.  
Awarded 1990

William R. Kenan Jr. Institute for Engineering,  
Technology and Science: Research Grant  
Study Title: "Treatment of malignant gliomas using glioma-specific  
monoclonal antibody conjugated liposomes containing

chemotherapeutic agents: *In vitro* and animal model studies".  
Principal Investigators: Keith B. Quattrocchi, M.D., Ph.D.,  
Co-Investigators: Howard Ozer, M.D., Ph.D., R. Carbonell, Ph.D.,  
Claramae Miller, Ph.D., M. Dan, M.D., Ph.D., Andrew Blight, Ph.D.  
Awarded 1/1/94 (\$50,000 for 1/94 through 6/95)

Lineberger Cancer Research Center  
Cancer Center Support Grant  
Study Title: "Adenovirus directed gene therapy of malignant gliomas".  
Principal Investigator: Keith B. Quattrocchi, M.D., Ph.D.  
Awarded 3/94 (\$20,000 for 7/94-6/95)

NIH UO-1 grant ("Identification and evaluation of  
tissue markers for pathological classification of human gliomas")  
Study title: "Myelin protein gene expression as a molecular marker  
in the classification of human gliomas".  
Principal Investigator: Brian Popko, Ph.D.  
Co-principal Investigator: Keith B. Quattrocchi, M.D., Ph.D.  
Awarded 12/94 (\$1,030,763 total costs 1/95-1/98)

Lineberger Cancer Research Center  
Cancer Center Support Grant  
Principal Investigator: Keith B. Quattrocchi, M.D., Ph.D.  
Study Title: "Gene Therapy: Models of Gene Therapy with  
Adenovirus and Adeno-associated Viral Vectors".  
Awarded 3/95 (\$12,000 for 3/95-2/96)

NIH: R29: Inflammatory Response to Head Injury  
Principal Investigator: Keith B. Quattrocchi, M.D., Ph.D.  
(Approved and then closed in December 1996: Principal  
Investigator no longer in full time academic practice).

## **CLINICAL/RESEARCH PROTOCOLS**

Evaluation of BCNU with Radiotherapy in the Treatment of  
Anaplastic Gliomas of the Brain with Optional CCNU,  
Procarbazine and Vincristine plus Radiotherapy.  
Principal Investigators: Keith B. Quattrocchi, M.D., Ph.D.

UNC, Chapel Hill; GCRC# 218; Renewed 7/7/93

Pilot Study for the Treatment of Anaplastic Gliomas  
with Concomitant Intra-arterial Cisplatin and  
Radiotherapy Followed by Surgical Resection

Principal Investigators: Keith B. Quattrocchi, M.D., Ph.D.  
UNC, Chapel Hill; GCRC# 578; Renewed 7/7/93

Evaluation of Intra-arterial Cisplatin in the treatment of patients with  
brain tumors consisting of primary lesions, metastatic lesions and  
invasive skull lesions with escalating 3-D conformal fractionated  
radiation therapy to 7920 rads.

Principal Investigators: Keith B. Quattrocchi, M.D., Ph.D.  
Mahesh Varia, M.D, Steven Bernard, M.D..  
UNC, Chapel Hill, GCRC# 357; Renewed 3/11/93

Immunotherapy for Malignant Gliomas: Intratumoral infusion of  
*in vitro* expanded cytotoxic tumor infiltrating lymphocytes (TILs)  
and recombinant IL-2 (rIL-2)

Principal Investigator: Keith B. Quattrocchi, M.D., Ph.D.  
UNC, Chapel Hill, GCRC# 947; approved 11/93

Evaluation of Intra-arterial Cisplatin and Etoposide in the treatment of  
lesions and invasive skull lesions.

Principal Investigators: Keith B. Quattrocchi, M.D., Ph.D.  
and Steven Bernard, M.D.  
UNC, Chapel Hill, GCRC# 357(revised); 9/94

A Phase III Trial of Crisnatol Mesylate Versus BCNU in the  
Consolidative Treatment of Glioblastoma Multiforme:  
Cooperative Multi-Center Trial.

PI: Rosenberg ML and New PZ (University of Texas)  
Investigator: Quattrocchi, KB  
UNC at Chapel Hill, GCRC # 1033, approved 12/94

Treatment of Acute Ischemic Stroke with Intra-venous or Intra-  
arterial Thrombolysis

Principal Investigators: Keith B Quattrocchi, M.D., Ph.D. and  
Stephanie Carinci, M.D.  
Saint Mary's Regional Medical Center; Approved 3/96

Treatment of Malignant Gliomas with Intra-arterial Cisplatin and Radiotherapy following biopsy or resection

Principal Investigator: Keith B. Quattrocchi, M.D., Ph.D.

Saint Mary's Regional Medical Center: Approved 3/96

Open-Label, Multi-Center, Clinical Trial of GLIADEL Wafer for Patients with Recurrent Malignant Glioma

Local Principal Investigator: Keith B. Quattrocchi, M.D., Ph.D.

Saint Mary's Regional Medical Center: Approved 3/96

Eastern Cooperative Oncology Group (ECOG)

"Phase III Study: Three cycles of infusional BCNU followed by radiation therapy with radiation therapy and concurrent BCNU for patients with newly diagnosed supratentorial glioblastoma multiforme" Local Investigators: Dr. Quattrocchi and

Dr. T. Chase, Approved 2/97

"Stealth" Computerized Neuronavigational System

Beta Test Site (January, 1997)

Local Investigators: Dr. Quattrocchi

## **PREVIOUS RESEARCH EXPERIENCE**

University of California, Berkeley

Honors Research Program

Advisor: Dr. Jesse Rabinowitz, Professor and

Chairman, Department of Biochemistry

Summary: Developed methods for the purification of Ferredoxin 2.

1976-1977

Tracor Tralab

Advisor/Consultant: Dr. R. Cole,

Professor of Biochemistry, U.C. Berkeley

Summary: Purification of superoxide dismutase for human clinical trials as an anti-inflammatory agent.

1976-1978

George Washington University

Advisor: Dr. Terry Moody, Professor of Biochemistry.

Summary: Investigated the pharmacokinetics of a neuropeptide secreted by human oat cell

lung carcinoma, 1982

University of California  
Advisors: Franklin C. Wagner Jr., M.D.,  
Professor of and Chairman, Department of  
Neurological Surgery and Claramae H. Miller, Ph.D.,  
Professor, Department of Pathology.  
Summary: Investigated the effect of severe isolated  
head injury on immune function including: lymphocyte  
activation, cytokine production and cellular cytotoxicity.  
1989-1991

University of North Carolina, Chapel Hill  
Areas of investigations included; 1) treatment of malignant gliomas with  
tumor infiltrating lymphocytes (clinical trial), 2) myelin basic protein as a  
marker of malignant gliomas of oligodendrocyte origin 3) immuno  
liposome targeted chemotherapy and NCT for the treatment of malignant  
gliomas  
4) gene therapy and of the treatment of malignant brain tumors,  
5) PMN migration inhibition as a treatment modality for cortical contusion.

#### **SCIENTIFIC PRESENTATIONS**

William Beaumont Research Forum  
"Pharmacokinetics of High Affinity Receptors  
for Bombesin on Human Small Cell Lung Carcinoma"  
Quattrocchi KB and Moody T  
George Washington University  
Washington, D.C., 1982

National Student Research Forum.  
"High Affinity Receptors for Bombesin-like  
Peptides on Small Cell Lung Carcinoma"  
Quattrocchi, KB and Moody T  
NSRF Annual Meeting, Galveston, Texas, 1983

American Association of Neurological Surgeons  
"Admission Computerized Tomography and Outcome  
Following Closed Head Injury"  
Quattrocchi KB and Wagner FC Jr  
Annual Meeting of the AANS, Washington, DC., 1989

Lende Winter Neurosurgery Conference

"Cellular Immunosuppression Following Head Injury".  
Quattrocchi KB, Miller CH, Dull S, Wagner FC Jr.  
Snowbird, Utah., 1990

Ninth Annual Biomedical Research Symposium  
"Alterations in cellular immunity following severe head injury".  
Quattrocchi KB, Miller CH, Dull S, Wagner FC Jr.  
University of California, Davis., 1990

Congress of Neurological Surgeons  
"Suppression of Immune Function following  
Quattrocchi KB, Miller CH, Dull S, Wagner FC Jr.  
Los Angeles, California., 1990

American Association of Neurological Surgeons  
"Suppression of lymphokine-activated killer (LAK) cytotoxicity  
following severe head injury".  
Quattrocchi KB, Miller CH, Dull S, Wagner FC Jr.  
New Orleans, Louisiana., 1991

American Association of Neurological Surgeons  
"Active suppression of immune function by peripheral blood  
lymphocytes and serum mediators following severe head injury".  
Quattrocchi KB, Miller CH, Dull S, Wagner FC Jr.  
San Francisco, California., 1992

Society of Clinical Surgery; 151st meeting  
"Malignant Gliomas: Current and Novel Treatments"  
Quattrocchi, K.B.  
Chapel Hill, NC (11/4/94)

Annual North American Skull Base Society  
"Three Dimensional Surgical Planning for Resection of Skull Base  
Tumors Using Multiple Image Modalities"  
Carrasco VN, Murhkerji S, Soltys M, Quattrocchi KB, Piser S,  
Rosenman JR: Naples, Florida; 2/19/9

Nathan A. Womack Surgical Society  
"Gene Therapy of Malignant Gliomas: Use of Adenovirus and

Adeno-associated Virus Vectors"  
Quattrocchi KB, Skulimowski A, Hensley BS, Miller CH, Zhang Y,  
Blight AR, Dull ST, Samulski RJ  
Presented at General Surgical and Neurosurgical Sections  
University of North Carolina, Chapel Hill (2/6/95)

Nathan A. Womack Surgical Society: Neurosurgical Section  
"Local Adoptive Immunotherapy in the Treatment of Malignant  
**Gliomas: Laboratory Studies and Initiation of a Phase I Clinical Trial**"  
Hensley LL, Dull ST, Miller CH, Quattrocchi KB  
Presented at General Surgical and Neurosurgical Sections  
University of North Carolina, Chapel Hill (2/6/95)

Nathan A. Womack Surgical Society: Neurosurgical Section  
"Gene Therapy of Malignant Gliomas: Use of Adenovirus and  
Adeno-Associated Virus Vectors"  
Quattrocchi KB, Skulimowski A, Hensley BS, Miller CH, Zhang Y,  
Blight AR, Dull ST, Samulski RJ  
Presented at General Surgical and Neurosurgical Sections  
University of North Carolina, Chapel Hill (2/6/95)

UNC School of Medicine Student Research Symposium  
"Effects of Neutrophil Infiltration Inhibition on Secondary  
Neurological Injury Following Cortical Trauma"  
Weaver KD, Branch CA, Hernandez L, Miller CH,  
Bree M, Gudeman SK, Quattrocchi KB  
Chapel Hill, NC (2/8/95)

North Carolina Head Injury Foundation  
"Secondary Neurological Injury"  
University of North Carolina, Chapel Hill, NC (March, 1995)

American Association of Neurological Surgeons  
"Viral Vectors for Use in Gene Therapy of Malignant Gliomas"  
Quattrocchi KB, Skulimowski A, Hensley BS, Miller CH, Zhang Y,  
Blight AR, Dull, ST, Samulski RJ  
Orlando, Florida (4/24/95)  
American Association of Neurological Surgeons  
"Applicability of Tumor Infiltrating Lymphocytes in the Treatment of  
Quattrocchi KB, Hensley LL, Dull ST, Miller CH  
Orlando, Florida (4/24/95)

Third International Neurotrauma Symposium  
"Neutrophil Infiltration Following Cortical Trauma: The Effects of  
Treatment With Anti-CD11B"  
Weaver KD, Branch CA, Hernandez L, Miller CH, Bree M,  
Gudeman SK, Quattrocchi KB., Toronto, Canada (7/22-7/27)

Weaver KD, Branch CA, Hernandez L, Miller CH, Sokolowski KA,  
Gudeman SK, Quattrocchi: Antagonism of leukocyte endothelial  
interactions reduces neutrophil influx following cortical trauma.  
Neurotrauma Society Meeting  
San Diego, CA (November, 1995)

Saint Mary's Regional Medical Center Trauma Symposium  
"Head Trauma: Pathophysiology, Diagnosis and Treatment"  
May 27, 1996  
SMRMS, Lewiston, ME

Saint Mary's Regional Medical Center: Foundation  
Neurosurgery: New Developments  
May 30, 1996  
SMRMS, Lewiston, ME

Maine Neurosurgical Society  
"Utilization of Autologous Tumor-Infiltrating Lymphocytes  
in the Treatment of Malignant Gliomas."  
October 5, 1996, Augusta, ME

Maine Association of Surgical Technicians  
"Utilization of Autologous Tumor-Infiltrating Lymphocytes  
in the Treatment of Malignant Gliomas."  
November 11, 1996

New England Neurosurgical Society  
"Pilot Study of Local Autologous Tumor-Infiltrating Lymphocytes  
for the Treatment of Malignant Gliomas."  
February 7, 1997, Essex Junction, Vermont

American Organization of Registered Nurses  
"Pilot Study of Local Autologous Tumor-Infiltrating Lymphocytes  
for the Treatment of Malignant Gliomas."  
March 3, 1997; SMRMC in Lewiston, Maine

**LECTURES:**

***University of California, Davis***

Clinical Immunology:

Department of Pathology

- 1) "Cytokines; Classification and Function"  
2/17/9
- 2) "Immunotherapy and Malignant Gliomas"  
2/24/93

***University of North Carolina, Chapel Hill***

1) Surgical Grand Rounds

"Immunotherapy of Malignant Gliomas"(4/14/93)

"Immunosuppression and Severe Head Injury" (8/10/93)

"Malignant gliomas: Traditional and Novel Treatments" (5/18/94)

2) Neurology-Neurosurgery Grand Rounds

"Immunotherapy of Malignant Gliomas" (7/21/93)

"Alterations in Cellular Immune Function

Following Severe Head Injury" (8/25/93)

3) Physical diagnosis (9/93-4/94)

4) Third year medical student lecture series (Surgery Rotation)

"Neuro-oncology" (7/10/93, 12/14/93, 6/14/94, 8/30/94, 12,15/94,  
3/15/95, 5/30/95, 8/17/95)

5) Second year medical student neuropathology lecture series

"Neuro-oncology" (3/3/94, 3/29/95)

6) Third year clinical neurosurgery tutorials

(7/93-9/93; 10/93-12/93; 1/94-3/94; 4/94-6/94, 7/94-9/94, 10/94-  
12/94)

7) Neurosurgery Resident and student didactic lecture series

"Neuro-oncology" (10/12/94, 3/2/95, 10/95)

8) Neurosurgery Resident Text Review (Director)

Continuous weekly sessions (1/94-11/95)

9) Techniques in Gene Therapy (Pharmacology #221[Section3])

"Gene Therapy for Brain Tumors" (3/29/95)

10. Gene Therapy of the Brain (Pharmacology #221)

"Gene Therapy for Malignant Gliomas" (3/3/95)

***Saint Mary's Regional Medical Center***

1) Nursing and Medical Records Didactic

"Neurosurgical Medical Coding" (5/24/96)

2) Women's Auxiliary

"Neuroscience Center" (3/10/99)

3) Critical Care Nursing (11/4/99)

"Head Injury: Pathophysiology and Treatment"

4) Nursing Didactic

“Malignant Gliomas” (4/27/01)

***Bates College:***

- 1) Immunotherapy for Malignant Brain Tumors”  
November 13, 1997; ‘Immunology’ (Dr. Pamela Baker)
- 2) Student Externship in Neurological Surgery  
March-April, 1998; March-April 1999

**PUBLIC SERVICE/HOBBIES**

Co-Director: Sierra-Remote Observatories  
Auberry, CA  
November 2006-Present  
[www.sierra-remote.com](http://www.sierra-remote.com)

Maine Astronomical Society  
President and Co-Founder  
June 2001 through October 2006  
Website: [www.lostvalleyobservatory.com](http://www.lostvalleyobservatory.com)

SAD 52 School Board Member  
June 2000-May 2004

Brain Tumor Support Group of North Carolina  
December, 1994

Brain Tumor Support Group of Maine  
December, 1996  
Public Awareness and EMT Education  
SMRMC, Lewiston, ME; 1996 - 1998

**Bibliography**

- 1) Moody TW, Coinery DN, Cuttitta F, Quattrocchi KB, and Minna JD: High affinity receptors for bombesin like peptides on small cell lung cancer. **Life Sci** 15:105-113, 1985.
- 2) Quattrocchi KB, Kissel P, Ellis WG, Frank EH: Cavernous angioma of the tentorium cerebelli: Case Report. **J Neurosurg** 71:935-937, 1989.
- 3) Quattrocchi KB and Chehrazi BB: Posterior fossa meningiomas, clinical presentation and surgical

management. **Contemp Neurosurg** 12(1):1-6, 1990.

4) Quattrocchi KB, Nielsen S, and Wagner FC Jr: Traumatic aneurysm of the superior cerebellar artery: Case report and review of literature. **Neurosurg** 27(3):476-479, 1990.

5) Quattrocchi KB, Frank EF, Miller CH, MacDermott JP, Hein L, Frey L, and Wagner FC Jr: Alteration in cell mediated immunity following severe head injury. **J Neurotrauma** 7(2):77-87, 1990.

6) Quattrocchi KB, Willits N, and Wagner FC Jr: The predictive value of computerized tomography in head injury outcome. **Surg Neurol** 35:183-185, 1991.

7) Quattrocchi KB, Frank EH, Issel BH, Miller CH, and Wagner FC Jr: Severe head injury: Effect on T-cell activation. **Neurol Res** 13(1):13-20, 1991.

8) Frank EH, Quattrocchi KB, and Hein L: Adaptor for stereotactic insertion of unitized shunt systems. **Surg Neurol** 35:400-402, 1991.

9) Stone AR, Quattrocchi KB, Miller CH, and MacDermott JP: Role of the immune system in interstitial cystitis. **Seminars in Urology** 9(2):108-114, 1991.

10) Miller CH, Quattrocchi KB, Amin A, and Wagner FC Jr: Severe head injury: Studies of humoral immunocompetence and review of cell mediated immune function following severe head injury. **Neurol Res** 13(2):117-124, 1991.

11) Quattrocchi KB, Frank EH, Issel BH, Amin A, Miller CH, and Wagner FC Jr: Severe head injury: Suppression of helper T-cell function and lymphocyte-activated killer (LAK) activity. **J Neurosurg** 75(5):766-773, 1991.

12) Miller CH, MacDermott JP, Quattrocchi KB, Broderick GA, and Stone AR: Lymphocyte function in patients with interstitial cystitis. **J Urol** 147:592-595, 1992.

13) Quattrocchi KB, Issel BH, Miller CH, and Wagner FC Jr: Impairment of helper T-cell function following severe head injury. **J Neurotrauma** 9(1):1-9, 1992.

14) Quattrocchi KB, Miller CH, and Wagner FC Jr: Cell mediated immunity in severely injured patients: The role of suppressor lymphocytes and serum factors. **J Neurosurg** 77(5):694-699, 1992.

15) ) Bartlett JS, Quattrocchi KB, Samulski RJ: "The Development of Adeno-Associated Virus as a vector for cancer gene therapy", In "The Internet Book of Gene Therapy"; Sobol, R and KJ Scanlan, eds; Appleton and Lange Publishing, 1996

16) Weaver KD, Quattrocchi KB, Blight AR: Neutrophil endothelial interactions and cerebral injury. **UNC Medical Student Journal: Fax.** 10(1):32-37, 1995

- 17) Smith MM, Thompson JE, Castillo M, Cush S, Mukherji SK, Miller CH, Quattrocchi KB: "MR of recurrent high grade astrocytomas after intralesional immunotherapy". AJNR 17:1065-1071, 1996
- 18) Vos JM, Quattrocchi KB, Wendelburg BJ: EBV Vectors: General Characteristics and Potential for Gene Therapy in the Central Nervous System. Chapter submission to : Gene Therapy for Neurological Disorders, editors: Breakfield and A Chiocca, Humana Press, 1997
- 19) Quattrocchi KB, Miller CH, Cush S, Bernard S, Dull S, M Smith, S Gudeman, MA Varia: Pilot Study of Local Autologous Tumor Infiltrating Lymphocytes for the Treatment of Recurrent Malignant Gliomas. J Neuro-Oncology, 45(2): 141-157, 1999.
- 20) Weaver KD, Branch CA, Hernandez L, Miller CH, Quattrocchi KB: Effect of leukocyte-endothelial adhesion antagonism on neutrophil migration and neurological outcome after cortical trauma. Journal of Trauma 48(6):1081-1090, 2000.
- 21) Moraes AM, Miller MD, Santana MHA, Miller CH, Quattrocchi KB, Hughes CS, Carbonel RG: Use of doxorubicin entrapped immunoliposomes for glioblastoma multiforme therapy: Liposome synthesis and characterization: In preparation.

### **Abstracts**

- 1) Moody TW, Coinery DN, Cuttitta F, Quattrocchi KB, Minna JD: "High Affinity Receptors for Bombesin on Human Small Cell Lung Carcinoma" National Student Research Forum, Galveston, TX, 1983, Abstract Published
- 2) Moody TW, Coinery DN, Curritta F, Quattrocchi KB, Minna JD: "High Affinity Receptors for Bombesin on Human Small Cell Lung Carcinoma" National Student Research forum, Galveston, TX, 1983, Abstract Published
- 3) Quattrocchi KB, Willits N, and F.C. Wagner, Jr.: "Admission Computerized Tomography and Outcome Following Closed Head Injury" American Association of Neurological Surgeons, Washington DC, 1989, Abstract Published
- 4) Quattrocchi KB, Frank EH, Miller CH, MacDermott JPA, Hein L, Frey L, Wagner FC Jr: "Cellular Immunosuppression Following Head Injury." Lende Winter Neurosurgery Conference, Snowbird, Utah. 1990, Abstract Published.
- 5) Quattrocchi KB, Frank EH, Miller CH, Dull ST, Hoard RR, Wagner FC Jr: "Alterations in cellular immunity following severe head injury." 9th Annual Biomedical Research Symposium University of California, Davis, 1990, Abstract Published
- 6) Miller CH, Quattrocchi KB, Frank EH, Issel BW, Wagner FC Jr: "Suppression of Immune Function

following Severe Head Injury". Congress of Neurological Surgeons, Los Angeles, California, 1990, Abstract Published

7) Quattrocchi KB, Miller CH, Wagner FC Jr, Denardo SJ, Denardo GL, Ovodov K, Frank EH: "Active suppression of immune function by peripheral blood lymphocytes and serum mediators following severe head injury" American Association of Neurological Surgeons, San Francisco, California. 1992, Abstract Published

8) Quattrocchi KB, Miller CH, Wagner FC Jr, Denardo SJ, Denardo GL, Ovodov K, Frank EH: "Active suppression of immune function by peripheral blood lymphocytes and serum mediators following severe head injury." American Association of Neurological Surgeons, San Francisco, California. 1992, Abstract Published

9) Quattrocchi, KB: "Malignant Gliomas: Current and Novel Treatments" Society of Clinical Surgeons, Chapel Hill, NC, 1994

10) Quattrocchi, KB, Skulimowski A, Hensley LL, Miller CH, Zhang Y, Blight AR, Dull ST, Samulski RJ: Viral vectors for use in gene therapy for malignant gliomas. American Association of Neurological Surgeons, Orlando, FL, 1995

11) Quattrocchi KB, Hensley LL, Dull ST, Miller CH: Applicability of tumor infiltrating lymphocytes in the treatment of malignant gliomas. American Association of Neurological Surgeons, Orlando, FL, 1995

12) Quattrocchi KB, Skulimowski A, Hensley LL, Miller CH, Zhang Y, Blight AR, Dull ST, Samulski RJ: "Gene therapy of malignant gliomas: Use of adenovirus and adeno-associated virus vectors. Nathan A. Womack Surgical Society, Chapel Hill, NC, 1995

13) Quattrocchi KB, Skulimowski A, Hensley LL, Miller CH, Zhang Y, Blight AR, Dull ST, Samulski RJ: "Gene therapy of malignant gliomas: Use of adenovirus and adeno-associated virus vectors. Dugger-Mahaley Section of the Nathan A. Womack Surgical Society, Chapel Hill, NC, 1995

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