

## CURRICULUM VITAE

**NAME:** Keith L. Black, M.D.

**EDUCATION:**

Shaker Heights Senior High School  
Shaker Heights, Ohio 1972-1975

Six-Year Medical Program  
University of Michigan  
Ann Arbor, Michigan  
    B.S., Biomedical Science August, 1978  
    With Distinction  
    Medical Degree May, 1981  
    With Distinction

**POST-GRADUATE TRAINING:**

Internship, General Surgery  
University of Michigan Medical Center  
Ann Arbor, Michigan 1981-1982

Resident, Neurological Surgery  
University of Michigan Medical Center  
Ann Arbor, Michigan 1982-1987

**ACADEMIC APPOINTMENTS:**

Assistant Professor of Surgery  
Division of Neurosurgery  
UCLA Medical Center  
Los Angeles, California 1987

Associate Professor of Surgery  
Division of Neurosurgery  
UCLA Medical Center  
Los Angeles, California 1991-1994

Ruth and Raymond Stotter Chair  
Department of Surgery  
UCLA Medical Center  
Los Angeles, California 1992-1997

Professor of Surgery  
Division of Neurosurgery  
UCLA Medical Center  
Los Angeles, California 1994-1997

Professor of Neurology

October 27, 2009

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Department of Neurology UCLA Medical Center Los Angeles, CA	1995-1997
Ruth and Lawrence Harvey Chair in Neuroscience Cedars-Sinai Medical Center Los Angeles, CA	1997-Present
Professor and Chairman Department of Neurological Surgery University of California, Irvine Medical Center Los Angeles, CA	1998-2000
Professor of Neurological Surgery Department of Neurological Surgery University of California, Irvine Medical Center Los Angeles, CA	2000-2003
Chairman Department of Neurosurgery Cedars-Sinai Medical Center Los Angeles, CA	2006-Present
Professor of Neurological Surgery Department of Neurosurgery Cedars-Sinai Medical Center Los Angeles, CA	2008-Present

**ADMINISTRATIVE APPOINTMENTS:**

Head, Neuro-Oncology UCLA Medical Center Los Angeles, CA	1988-1997
Head, UCLA Comprehensive Brain Tumor Program UCLA Medical Center Los Angeles, CA	1991-1997
Director, Comprehensive Brain Tumor Program Department of Surgery Cedars-Sinai Medical Center Los Angeles, CA	1997-Present
Director, Division of Neurosurgery Department of Surgery Cedars-Sinai Medical Center Los Angeles, CA Director, Maxine Dunitz Neurosurgical Institute	1997-2006

Department of Surgery  
Cedars-Sinai Medical Center  
Los Angeles, CA 1997-Present

**OTHER APPOINTMENTS:**

Founder, Microsurgeon Incorporated 1997  
Founder, Imagine Pharmaceuticals 2003

**HONORARY SOCIETIES**

Alpha Omega Alpha Honorary Medical Society 1981

**HONORS AND AWARDS (selected):**

Westinghouse Science Award 1975  
Bachelor of Science Degree with Distinction 1978  
American College Scholarship Award for Academic Excellence 1979  
Markley Award for Outstanding Graduate Scholarship 1980  
National Medical Fellowship - Franklin C. McLean Award for Outstanding Medical Scholarship 1980  
Alpha Omega Alpha Honorary Medical Society 1981  
National Medical Fellowship - Kaiser Award for Outstanding Medical Scholarship 1981  
Medical Degree with Distinction 1981  
American College of Surgeons - Shering Scholar 1985  
Richard F. and Eleanor W. Dwyer Award For Excellence in Cancer Research 1990  
Best Doctors in America 1994-Present  
LEVI - Human Rights Award in Medicine 1994  
Charles R. Drew University of Medicine and Science Medal of Honor (Highest tribute of the Board of Directors) 1995  
Discovery Award Recipient, Color Me Bright Youth Foundation Los Angeles, CA 1995

Humanitarian Award Honoree, Eleventh Annual Los Angeles Humanitarian Award Luncheon, California Hospital Medical Foundation, Los Angeles, CA	1996
Cover Time Magazine – Heroes of Medicine	1997
Charles M. Drew Medical Society President’s Medal of Honor	1998
Don Newcombe Humanitarian Award The San Fernando Valley Chapter of the Links, Inc., Top Hat Award Benefit	1998
Health Professional Achievement Award Health Science Student Association California State University, Los Angeles	1998
Cover – Turning Point Magazine The Brain: A Living Wonder	1998
Golden Plate Award American Academy of Achievement Washington, DC	1999
NMF Distinguished Service Award National Medical Fellowships New York, NY	1999
Cover - Newsweek Japan Key Players in the 21 <sup>st</sup> Century	1999
Esquire Magazine The 21 Most Important People of the 21 <sup>st</sup> Century	1999
Special Recognition National Academy of Science	2000
2000 Thomas Bradley Distinguished Citizen Award Kappa Alpha PSI Fraternity, Inc.	2000
Jacobs Javits Award, NINDS, NIH	2000
Essence Award	2001
America’s Top Doctors	2001 –Present
European Academy of Sciences	2001
Annual Martin Luther King, Jr. Day National Holiday Honored Recipient	2002
The 1000 Most Creative Individuals in the USA	2002

Who is Really Who	2002
Essence Magazine Special Edition The 40 Most Inspiring African Americans	2002
Candle Award in Science & Technology Morehouse College	2003
“From Whence We Came” Honored Recipient All State Insurance	2004
HistoryMaker The HistoryMakers®	2004
Highlight Award Women of Pasadena	2004
Minority Access, Inc. 2004 National Role Models – Innovator Award	2004
Minorities in Business 9 <sup>th</sup> Annual Multicultural Prism Awards MIB Corporate Angel Award	2004
Southeast Symphony Humanitarian Award Walt Disney Hall	2005
March of Dimes Honoree	2005
America’s Top Doctors for Cancer	2005 -Present
Trumpet Awards Foundation Award in Medicine Sponsored by Turner Broadcasting	2006
Los Angeles Super Doctors	2007-Present
2007 Jules Stein Living Tribute - Vision Awards	2007
2007 Thomas Bradley Unsung Hero Award Sponsored by the California African American Museum	2007
Cover – Black Enterprise Magazine America’s Leading Doctors	2008
100 Black Men of Los Angeles Lifetime Achievement Award	2008
Healthnetwork Foundation Service Excellence Award	2008
100 Black Men of America	

Chairman's Award in Health and Wellness	2009
International Brain Mapping and Intraoperative Surgical Planning Society Pioneer in Medicine Award	2009

**PROFESSIONAL SOCIETIES AND MEMBERSHIPS:**

American Academy of Neurological Surgery	1995-Present
American Association for the Advancement of Science	1988-1991
American Association of Neurological Surgeons	1991-Present
Brain Research Institute - UCLA	1988-1997
California Association of Neurological Surgeons	1991-Present
Congress of Neurological Surgeons	1982-Present
International Congress of the Skull Base Study Group	1988
Jonsson Comprehensive Cancer Center - UCLA	1988-1997
Neurosurgical Society of America	1993-Present
North American Skull Base Society - Founding Member	1989-2005
Society for Neuroscience	1989-1995
Southern California Neurosurgical Society	1988-Present
Southwest Oncology Group	1994-2001
Western Neurosurgical Society	1996-Present
Society for Neuro-oncology	2002-Present
Pituitary Society	2003-Present
American Association for Cancer Research	2003-Present
Society of Neurological Surgeons	2007-Present

**CERTIFICATE AND LICENSURE:**

Michigan State Medical License	1982-Present
Diplomat, National Board of Medical Examiners	1982
California State Medical License	1987-Present
Diplomat, American Board of Neurological Surgery	1990

**UNIVERSITY AND HOSPITAL COMMITTEES (selected):**

Brain Death Committee, University of Michigan Hospitals Ann Arbor, Michigan	1982-1983
Hospital Cancer Committee, UCLA Medical Center Los Angeles, California	1987-1988
Clinical Programs Committee, Jonsson Comprehensive Cancer Center, UCLA Medical Center, Los Angeles, California	1988-1989
UCLA School of Medicine Search Committee Chairman of Anesthesia	1989-1990
UCLA School of Medicine Admissions Committee	1989-1993
Chairman, UCLA Department of Neurology Search Committee Neuro-Oncologist	1990
Department of Surgery Research Space Committee	1990
UCLA Department of Surgery Search Committee Surgical Oncologist	1991
Brain Research Institute Advisory Committee	1992
UCLA Department of Surgery Incentive Plan Committee	1993
UCLA Medical Group Practice Appointment System Task Force	1993
UCLA Department of Neurobiology Search Committee for Chair	1994
UCLA Department of Psychiatry Search Committee for Chair	1995

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UCLA School of Medicine Search Committee for Gene Therapy Program Director	1995
Cedars-Sinai Medical Center Department of Psychiatry Search Committee for Chair	1998
Cedars-Sinai Medical Center Education Strategy Design Team	2000
Cedars-Sinai Medical Center Department of Radiation Oncology Search Committee for Chair	2002, 2004 2005
Cedars-Sinai Medical Center Department of Neurology Search Committee for Chair	2003
Cedars-Sinai Medical Center Department of Surgery Performance Improvement Committee	2003
Cedars-Sinai Medical Center Department of Surgery Spine Institute Key Advisory Committee	2003
Cedars-Sinai Medical Center Department of Surgery OR Advisory Team	2003
Cedars-Sinai Medical Center Comprehensive Cancer Institute Search Committee for Director	2004
Cedars-Sinai Medical Center Department of Surgery Search Committee for Chair	2005
Cedars-Sinai Medical Center Faculty Advisory Committee	2006
Cedars-Sinai Medical Center Outpatient Diagnostic Treatment Center Faculty Advisory Group	2007
Cedars-Sinai Medical Center Institutes Executive Committee	2007
Cedars-Sinai Medical Center International Stem Cell Research Institute Faculty Recruitment Committee	2007
Cedars-Sinai Medical Center Neurosurgery ICU Tactical Planning Committee Chair	2007
Cedars-Sinai Medical Center Ventilator Appropriateness Task Force	2008-Present

**POST GRADUATE COURSES:**

Director -- Advances in Brain Tumor Management Marina Del Rey, CA <i>November 19 and 20</i>	1993
Co-Director -- Interventional MRI Marina Del Rey, CA <i>August 13 and 14,</i>	1994
Director -- Advances in Brain Tumor Management Las Vegas, NV <i>February 17 and 18</i>	1995
Director – Clinical Neurosciences Lecture Series Cedars-Sinai Medical Center Los Angeles, CA	1997 - 2000
Director – Management of Brain Tumors Cedars-Sinai Medical Center Los Angeles, CA <i>February 2</i>	2000
Director – Management of Brain Tumors Las Vegas Hilton Las Vegas, NV <i>June 10</i>	2000
Co-Director – Medical and Surgical Advances in Neurology and Neurosurgery 2008 Ritz Carlton Marina Del Rey Marina Del Rey, CA <i>February 16-17</i>	2008
Co-Director – Medical and Surgical Advances in Neurology and Neurosurgery 2008 Ritz Carlton Marina Del Rey Marina Del Rey, CA <i>February 14-15</i>	2009

**NATIONAL COMMITTEES:**

Congress of Neurological Surgeons Sergeant-at-Arms Committee	1988
Congress of Neurological Surgeons Host Committee	1989

North American Skull Base Society Research Committee	1989
Congress of Neurological Surgeons Chairman, Public Relations Committee	1990
Scientific Advisory Board, Foundation for Neurosurgical Research, Valhalla, New York	1990
Congress of Neurological Surgeons, Scientific Program Committee, Co-Chairman Luncheon Discussions	1991
American Association of Neurological Surgeons Young Neurosurgeons Committee	1991
Congress of Neurological Surgeons Scientific Program Committee, Chairman, Practical Courses	1992
North American Skull Base Society Membership and Credentials Committee	1992-1995
North American Skull Base Society Nominating Committee	1992
Congress of Neurological Surgeons Scientific Program Committee, Chairman, General Scientific Session II	1993
American Association of Neurological Surgeons Scientific Program Committee - Young Neurosurgeons Representative	1993
Congress of Neurological Surgeons Scientific Program Committee, Chairman of Special Courses	1994
American Association of Neurological Surgeons Registration Committee	1994
Brain Committee Southwest Oncology Group, A National Clinical Research Group	1994-1995
Joint American Association of Neurological Surgeons and Congress of Neurological Surgeons Tumor Section Program Committee	1995-1999
Congress of Neurological Surgeons Executive Committee	1995-1996

Joint American Association of Neurological Surgeons and  
Congress of Neurological Surgeons  
Chairman Program Committee - Tumor Section 1997

American Association for Cancer Research  
Minorities in Cancer Research Minority Scholar in  
Cancer Research Awards Committee 2006-2007

**NATIONAL SERVICE:**

National Institutes of Health  
Neurology A Site Visit (Cornell University) 1990

National Institutes of Health  
Neurology A Study Section 1993-1994

Search Committee - Scientific Director, National Institutes of Health  
National Institute of Neurological Disorder and Stroke 1994

National Cancer Institute Site Visit  
San Diego Regional Cancer Center 1994

Board of Scientific Counselors, National Institutes of Health  
National Institute of Neurological Disorder and Stroke 1994-1999

United States Senate; Subcommittee on Labor, Health and  
Human Services, and Education, Testimony before  
Special Hearing Commemorating the 25<sup>th</sup> Anniversary of  
the National Cancer Act  
Hart Senate Office Building, Washington, D.C. 1997

Brain Tumor Progress Review Group  
National Cancer Institute and  
National Institute of Neurological Disorder and Stroke 2000

National Advisory Neurological Disorders and  
Stroke Council of the National Institutes of Health 2000-2004

American Board of Neurological Surgery – Guest Examiner  
1995, 2002,  
and 2009

**OTHER SERVICES**

Board of Directors of the Los Angeles World Affairs Council 1997- 2001

Medical Advisory Board, National Brain Tumor Foundation 1997- 2008

University of Michigan Medical Center Alumni Society Board 2000-2002

Musella Foundation for Brain Tumor Research and Information 2001-Present

University of Michigan Life Sciences Institute Advisory Board	2003
Independent Citizens Oversight Committee (ICOC) California Institute for Regenerative Medicine created under Proposition 71 Committee Member	2004- 2006
Member, Transition Team for Mayor Elect Antonio Villaraigosa	2005

**EDITORIAL BOARDS:**

<i>UCLA Cancer Trials Newsletter</i> - Editorial Board	1989-1997
<i>Critical Reviews in Neurosurgery</i> - Editorial Board	1990-1999
<i>Perspectives in Neurological Surgery</i> - Editorial Board	1992-1997
<i>Journal of Neuro-Oncology</i> - Editorial Board	1994-1998
<i>Neurological Research</i> - Editorial Board	1995-Present
<i>Journal of Radiosurgery</i> - Editorial Board	1997-2001
<i>Gene Therapy and Molecular Biology</i> – Editorial Board	1998-Present
<i>Neuroscience Medicine and Technology (Net)</i> Editor	2001-Present
<i>Neurosurgery Quarterly</i> – Editorial Board	2001-Present
<i>Frontiers in Bioscience</i> -Editorial Board	2003-Present
<i>Chinese Journal of Minimally Invasive Neurosurgery</i> -Editorial Board	2006-2008
International Brain Mapping & Intraoperative Surgical Planning Society	2009 - Present

**CLINICAL AND RESEARCH FELLOWS TRAINED:**

Kiyonobu Ikezaki, M.D.	1987-1989
Wesley King, M.D.	1988-1989
Takehiki Baba, M.D.	1989-1992
Tetsuya Shiraishi, M.D.	1989-1991
Chung-Ching Chio, M.D.	1990-1992

Paul M. Robinson , M.D.	1991-1992
Gerald E. Rodts, Jr., M.D.	1992-1993
Marvin Jackson (Common Wealth Fellowship Awardee)	1991
Joseph R. Ciacci, M.D.	1991-1993
Takenori Inamura, M.D.	1991-1994
Ooh Lyong Kim, M.D.	1991-1992
Nobuaki Momozaki, M.D.	1991-1993
Benham Badie, M.D.	1993-1995
Langston Holly (Common Wealth Fellowship Awardee)	1993
Tomojiro Nomura, M.D.	1993-1995
Koichiro Matsukado, M.D.	1994-1996
Greg Rubino, M.D.	1994-1995
Shin Nakano, M.D.	1994-1996
Andre Fredieu (Common Wealth Fellowship Awardee and Howard Hughes Fellow)	1995-1997
Gabriel Hunt (Howard Hughes Fellow)	1995-1997
Ali Salim (STTP Program)	1995
Linda Liau, M.D.	1995-1997
Shay Dean (University of Michigan Opportunities Award Program)	1996
Shinya Oshiro, M.D.	1996-1998
Masao Sugita, M.D.	1996-1998
Mark Hunter (STAR Fellowship Award Program)	1997-1998
Yunhui Liu, M.D.	1997-1999
Ken Samoto, M.D.	1998-2000
Kazuhiro Hashazume, M.D.	1998-2000

Kent Doonan (National Medical Fellowship Awardee)	1999-2000
Frank Acosta ( Howard Hughes Fellow)	2001
Lawrence Daniels (National Medical Fellowship Awardee)	2002
Lawrence Daniels (Washington Gifted Scholar in Neuroscience)	2004
Daniel Newman (Washington Gifted Scholar in Neuroscience – Alternate)	2004
Kathleen Kelly (Washington Gifted Scholar in Neuroscience)	2004
Ksenia Prosolovich (Washington Gifted Scholar in Neuroscience)	2005
Kimberly Idoko (Washington Gifted Scholar in Neuroscience)	2005
Shyam Goverdhana (American Brain Tumor Association Fellow)	2005
Freya Elena Marshall (Washington Gifted Scholar in Neuroscience)	2006
Christopher Urban (Washington Gifted Scholar in Neuroscience)	2006
Joshua Kouri, M.D. (Department of Neurosurgery Surgical Oncology Fellow)	2007
Donald Phillips (Washington Gifted Scholar in Neuroscience)	2007
Henry Wu (Washington Gifted Scholar in Neuroscience)	2007
Lindsey Ross (Washington Gifted Scholar in Neuroscience)	2008
Debi Thomas (Washington Gifted Scholar in Neuroscience)	2008
Marisa Riley (Washington Gifted Scholar in Neuroscience)	2009
Marcus Gates (Washington Gifted Scholar in Neuroscience)	2009

**PATENTS AWARDED:**

Method for selective opening of abnormal brain tissue capillaries Patent No. US94/04269	1994
Enhanced opening of abnormal brain tissue capillaries Patent No. US98/23932	1998
Gene Associated with Neoplastic Disease or Malignancy Associated Gene Patent No. PCT/US98/26461	1998

A herpes simplex virus type 1 (HSV-1)-derived vector for selectively inhibiting malignant cells and methods for its use to treat cancers and to express desired traits in malignant and non-malignant mammalian cells  
Patent No. US006774119B1 (Application No. US09/299,817) 1999

Method for using potassium channel agonists for delivering a medicant to An abnormal brain region and/or a malignant tumor  
Patent No. US7,018,979B1 (Application No. US09/491,500) 2006

Induction of Apoptosis of Malignant Cells by Activation of Calcium-Activated Potassium Channels  
Patent No. US7,211,561 2007

Methods of Using PDE5 Inhibitors to Enhance the Permeability of the Blood-Tumor Barrier  
(Filed 9/28/07) *Pending*

Cancer Vaccines and Vaccination Methods  
(Filed 9/28/07) (Application Nos. 11/863,990 and 11/864,177) *Pending*

**EDUCATIONAL MEDIA AWARDS:**

Public Television - "Life and Times"  
LA Medical - Keith L. Black, M.D. 1994

Radio & TV News Assoc. of S. California, Best  
Documentary, Golden Mike Award 1993

Los Angeles Area Emmy Awards: Health & Science/Environment 1993

Ohio State Awards: Achievement of Merit Award  
(Natural and Physical Sciences) 1994

**GRANT SUPPORT AWARDED:**

Principal Investigator:  
Effect of Omega 3 Fatty Acids on Cerebral Ischemia in Cats  
*Opportunity Award Program Research Grant*  
\$8,000 1979-1980

Co-Principal Investigator:  
Effect of Omega 3 Fatty Acids on Cerebral Ischemia in Cats  
*Opportunity Award Program Research Grant*  
\$8,000 1979-1980

Principal Investigator:  
Relation of Regional Cerebral Blood Flow in Cerebral Ischemia to Brain Prostaglandin and Thromboxane Levels  
*Michigan Diabetes Research and Training Grant*  
\$2,000 1982-1983

Principal Investigator:  
Relation of Regional Cerebral Blood Flow in Cerebral Ischemia to Brain Prostaglandin and Thromboxane Levels  
*Michigan Diabetes Research and Training Grant*  
\$2,000 1982-1983

Co-Principal Investigator:  
Effect of Menhaden Fish Oil on Cerebral Ischemic Edema  
*Biomedical Research Support Grant (NIH)*  
\$5,000 1982-1983

Principal Investigator:  
Biochemical Modulation of the Blood-Tumor Barrier  
*Academic Senate - UCLA*  
\$1,000 1987-1988

Principal Investigator:  
Faculty Award Grant  
*Robert Wood Johnson Foundation*  
\$240,000 1987-1990

Principal Investigator:  
Imaging of C<sub>6</sub> Glioma with Benzodiazepine Receptor Ligands  
*Biomedical Research Support Grant (NIH)*  
\$13,200 1987-1988

Principal Investigator:  
Effect of U74006F on Blood-Tumor Barrier Permeability  
*Upjohn Company*  
\$21,400 1988-1989

Faculty Sponsor:  
Binding of Peripheral Benzodiazepine Receptor Ligands to Brain Tumors  
*The California Institute for Cancer Research and American Cancer Society Institutional Grant*  
\$30,000 1988-1989

Principal Investigator:  
Phase II Clinical Trial of Imuvert in Patients with Recurrent or Refractory Anaplastic Astrocytomas or Glioblastoma Multiforme  
*Cell Technology, Inc.*  
\$100,000 1988-1989

Principal Investigator:  
Role of Leukotrienes in Blood-Brain Barrier Permeability  
*Preuss Foundation*  
\$70,000 1988-1990

Principal Investigator:  
Leukotriene Modulation of the Blood-Brain Barrier in Tumors  
*National Institute of Health (1R29NS26523)*  
\$350,000 1988-1993

Principal Investigator:  
Safety and Efficacy of BCNU Delivered from a Biodegradable  
Surgically Implanted Polymer for the Treatment of Grade III to IV Astrocytomas  
*Nova Pharmaceutical Company*  
\$6,500 1988-1993

Principal Investigator:  
A Double Blind, Placebo-Controlled Study of BCNU Delivered from a Biodegradable,  
Surgically Implanted Polymer for the Treatment of Recurrent Malignant Glioma  
*Nova Pharmaceutical Company*  
\$60,000 1989-1990

Principal Investigator:  
A Pilot Phase I Clinical Trial of Imuvert and Standard Radiation in Patients  
with Anaplastic Astrocytomas or Glioblastoma Multiforme  
*Cell Technology, Inc.*  
\$160,000 1989-1991

Principal Investigator: Project 4  
Leukotrienes and the Blood-Brain Barrier  
Program Project - Biology of Blood-Brain Barrier  
*National Institute of Health (1P01NS25554)*  
\$2,250,000 1990-1993

Program Director  
Biology of Brain Tumors  
*National Cancer Institute (CA 60160)*  
\$230,000 1993-1996

Principal Investigator  
Leukotrienes and the Blood-Brain Barrier  
*National Institute of Health (1R01NS32103)*  
\$594,563 1993-1998

Co-Principal Investigator Spectral Editing Techniques for H-1 MR Spectroscopy and Chemical Shift Imaging of Human Brain in vivo <i>Whitaker Foundation</i> \$30,797	1994
Principal Investigator: Project 4 Biochemical Modulation of the Blood-Brain Barrier Program Project - Biology of Blood-Brain Barrier <i>National Institute of Health (P01-NS-25554)</i> \$3,226,248	1994-1999
Principal Investigator Open Label Study of the Effects of RMP-7 on the Safety of Intra- Arterial Administration of Carboplatin for the Treatment of Malignant Recurrent Gliomas <i>Alkermes, Inc. (ALK01-010)</i> \$278,955	1994-1995
Mentor - Andre' Fredieu Project Title: TGF- $\beta$ 2 Antisense and Cytokine Gene Therapy of Rat Gliomas <i>Howard Hughes Fellowship</i> \$24,500	1995-1996
Mentor - Gabriel Hunt Project Title: Leukotrienes and the Blood-Brain Barrier <i>Howard Hughes Fellowship</i> \$24,500	1995-1996
Co-Investigator Open Label Study of the Effects of RMP-7 on the Safety of Intra-Arterial Administration of Carboplatin for the Treatment of Metastatic Brain Tumors <i>Alkermes, Inc. (ALK01-024)</i> \$303,067	1995-1996
Principal Investigator Construction of Multi-gene Expression Vectors for Molecular Engineering of Anti-tumor Immunity in Human and Animal Brain Tumor Studies <i>Jonsson Comprehensive Cancer Center Foundation</i> \$30,000	1996-1997
Principal Investigator Enhancement of Anti-Tumor Immunity for Treatment of Malignant Gliomas <i>Jonsson Comprehensive Cancer Center</i> \$150,000	1996-1997

- Principal Investigator  
Effect of Intracarotid RMP-7 and Cytokine Infusion on Survival in Rats with  
RG2 Glioma  
*Alkermes, Inc. (012170-01-A01)*  
\$154,960 1996-1997
- Director (Linda Liau, M.D./Principal Investigator)  
Clinical Research Fellowship  
*American Cancer Society (ACS, CD, Inc. 4-25-97)*  
\$66,000 1997-1999
- Principal Investigator  
Thymus Function and Relevance to T-Cell Signaling Defects in  
Intracranial Tumor Bearing Animals  
*Joseph Drown Foundation*  
\$68,000 1998-1999
- Principal Investigator  
Phase III, Multicenter Randomized Double-Blind, Placebo-Controlled Trial of  
Polifeprosan 20 With Carmustine 3.85% Implant In Patients  
Undergoing Initial Surgery for Newly-Diagnosed Malignant Glioma  
*Rhone-Poulenc Rorer Research Development (RPR 132596 T/301)*  
\$79,359 1998-2000
- Principal Investigator  
Thymus Function and Relevance to T-Cell Signaling Defects in  
Intracranial Tumor Bearing Animals  
*Joseph Drown Foundation*  
\$91,000 1999-2000
- Principal Investigator  
A Phase I, Open Label Safety Study of Allogeneic Glioblastoma Tumor Cell Lines Mixed with  
Allogeneic Fibroblasts Genetically Modified to Secrete GM-CSF in Patients with  
Glioblastoma Multiforme or Anaplastic Astrocytoma  
*Immune Response, Inc.*  
\$700,000 1999-2001
- Mentor – Frank Acosta  
Biochemical Modulation of the Blood-Brain Barrier  
*Howard Hughes Fellowship*  
\$31,000.00 2000-2001

Co-Principal Investigator The Effect of Intra-arterial and Intravenous Administration of Bradykinin And Novel BK2 Agonists on Blood-Brain Tumor Barrier and Blood-Brain Barrier Permeability <i>Neurogen Corporation</i> \$98,500	2000-2001
Faculty Sponsor- (John Yu) Active Immunotherapy for Glioblastoma <i>National Institutes of Health (1K23NS02232-01)</i> \$608,445	2000-2005
Principal Investigator R37: Biochemical Control of BBB in Abnormal Brain Capillaries. <i>NINDS National Institute of Health (Jacob Javits Award)( 1R37NS32103)</i> \$2,812,500	2000-2008
Mentor- Frank Acosta Bristol-Myers Squibb Company <i>National Medical Fellowship</i> \$6,000	2001-2002
Principal Investigator Gene Profiling of Human Brain tumors <i>Accelerated Brain Cancer Cure</i> \$100,000	2001-2002
Principal Investigator Modulation of Blood-brain Tumor Barrier in GBM Xenograft Model and Patients with Brain Metastases <i>Accelerated Brain Cancer Cure</i> \$100,000	2002-2003
Principal Investigator Enhanced Drug Delivery to Metastatic Brain Tumors by Activation of Potassium Channels <i>National Institutes of Health (1R01NS046388-01)</i> \$1,308,152	2003 – 2008
Principal Investigator Brain Tumors and Air Pollution <i>South Coast Air Quality Management District</i> \$559,250	2003-2004
Co-Principal Investigator Brain Tumor Research Grant <i>Brain Tumor Research Trust</i> \$50,000	2003-2004

Co-Principal Investigator Enhanced Delivery of Drugs to Brain Tumors <i>National Institutes of Health (R43NS052167-01)</i> \$74,148	2005-2006
Co-Principal Investigator Fluorescence lifetime method for guided therapy of brain tumors <i>National Institutes of Health (1 R42 CA117286-01)</i> \$200,000 (Phase 1) \$3,000,000 (Phase 2)	2005 – 2007
Principal Investigator Brain Tumor and Air Pollution <i>South Coast Air Quality Management District</i> \$1,500,000	2005-2008
Co-Principal Investigator Tumor drug delivery systems based on polymalic acid <i>National Institutes of Health (1R01CA123495-01)</i> \$1,950,000	2006-2011
Principal Investigator Brain Tumor and Air Pollution <i>South Coast Air Quality Management District</i> \$1,250,000	2008-2009
Principal Investigator The Cancer Genome Atlas Project, GBM Tissue Collection <i>National Institutes of Health (NO1CO12400)</i> \$516,711	2008-2011

## BIBLIOGRAPHY

### PUBLICATIONS IN SCIENTIFIC JOURNALS:

1. **Black KL**, Jones JD: The discocyte-echinocyte transformation as an index of human red blood cell trauma. Ohio J Sci. 76:225-230, 1976
2. Wagner JG, Weidler DJ, Hallmark MR, **Black KL**, Domino EF: Pharmacokinetics of pentobarbital in the cat and comparison with the rabbit and man. Res Comm Chem Pathol Pharmacol. 16:375-384, 1977
3. **Black KL**, Weidler DJ, Jallad NS, Sodeman TM, Abrams GD: Delayed pentobarbital therapy of acute focal cerebral ischemia. Stroke. 9:245-249, 1978
4. Weidler DJ, Jallad NS, **Black KL**: Critical plasma pentobarbital level in the treatment of acute ischemic stroke. Res Comm Chem Pathol Pharmacol. 26:35-45, 1979
5. **Black KL**, Culp B, Madison D, Randall OS, Lands WEM: The protective effects of dietary fish oil on focal cerebral infarction. Prostaglandins Med. 3:257-268, 1979
6. Weidler DJ, Jallad NS, **Black KL**, Wagner JG: Alternation of pharmacokinetic parameters of pentobarbital by ischemic stroke and reversion to normal by dexamethasone treatment. J Clin Pharmacol. 20:543-551, 1980
7. **Black KL**, Hoff JT, Radin NS, Deshmukh G: Eicosapentaenoic acid: effect on brain prostaglandins, cerebral blood flow and edema in ischemic gerbils. Stroke. 15:65-69, 1984
8. **Black KL**, Farhat SM: Cerebral abscess: loss of computed tomographic enhancement with steroids. Neurosurg. 14:215-217, 1984
9. **Black KL**, Farhat SM: Giant arteriovenous malformation of the vein of Galen in an adult. Surg Neurol. 22:382-386, 1984
10. **Black KL**, Hsu S, Radin NS, Hoff JT: Sodium 5-(3'-pyridinylmethyl) benzofuran-2-carboxylate (U-63557A) potentiates the protective effect of intravenous eicosapentaenoic acid on impaired cerebral blood flow in ischemic gerbils. J Neurosurg. 61:453-457, 1984
11. **Black KL**: Leukotriene C<sub>4</sub> induces vasogenic cerebral edema in rats. Prostaglandins Leukotrienes Med. 14:339-340, 1984
12. **Black KL**, Hsu S, Radin NS, Hoff JT: Effect of intravenous eicosapentaenoic acid on cerebral blood flow, edema and brain prostaglandins in ischemic gerbils. Prostaglandins. 28:545-556, 1984

13. **Black KL**, Hoff JT: Effect of dietary eicosapentaenoic acid on brain prostaglandins, edema and cerebral blood flow in ischemic gerbils. Clin Res Reviews. 4:85-88, 1984
14. **Black KL**, Hoff JT: Leukotrienes increase blood-brain barrier permeability following intraparenchymal injections in rats. Ann Neurol. 18:349-351, 1985
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39. Ljubimova JY, **Black KL**, Ljubimov AV, Holler E. "Biodegradable multitargeting nanoconjugates for drug delivery".Multifunctional Pharmaceutical Nanocarriers. Springer. 233-262, 2008.
40. Liu G, **Black KL**, Yu JS. Targeting Brain Cancer Stem Cells in the Clinic, Stem Cells and Cancer. Bagley MS & Teicher BA (eds). Humana. 275-286, 2009.

**VISITING PROFESSOR AND HONORED GUEST:**

1. Visiting Professor: Neurology-Neurosurgery Grand Rounds, Howard University, Washington, D.C. January, 1986.
  - *Leukotrienes and brain edema.*
2. Visiting Professor: Neurology-Neurosurgery Grand Rounds, National Institute of Health, Bethesda, Maryland. February, 1986
  - *Are leukotrienes involved in the formation of brain edema?*
3. Honored Guest: Japan Medical Society of Paraplegia's 27th Annual Meeting, Japan, September, 1992.
  - *Spinal Cord Tumors*
4. Honored Guest: National Taiwan University, Taipei, Taiwan, September, 1993.
  - *Selective opening of the blood-brain barrier for drug delivery*
5. Honored Guest: Annual Meeting of the Surgical Society of Taiwan, Tainan, Taiwan, September, 1993
  - *Surgical treatment of clival chordomas.*
  - *Novel strategies for treatment of malignant brain tumors*
6. Visiting Professor: Department of Neurosurgery, The Cleveland Clinic Foundation, Cleveland, OH, May 13, 1994.
  - *Drug delivery across blood-tumor barrier.*
  - *Clival Chordomas*
7. Keynote Commencement Speaker: Charles R. Drew University, Class of 1995. University of California, Los Angeles, June 4, 1995
8. Visiting Professor: Section of Neurosurgery, University of Michigan School of Medicine, Ann Arbor, MI, September 28-30, 1995
  - *Novel treatment of brain tumors*
9. Keynote Address: Robert Wood Johnson, Minority Medical Faculty Development Program, Princeton, NJ, October 9, 1996
  - *Modulation of the blood-brain barrier.*
10. Visiting Professor: Department of Neurosurgery, Stanford University Medical Center, Stanford, CA, October 10, 1996
  - *Novel treatment of malignant brain tumors.*

11. Honored Guest: II International Symposium of Neuro-Oncology, Sao Paulo, Brazil, November 8, 1996
  - *The blood-brain barrier.*
  - *Gene Therapy*
12. Honored Guest: Baylor College of Medicine Distinguished Lecture Series, Houston, TX, April 30, 1997
13. Martin Luther King Jr., Chavez and Parks Visiting Professor in Surgery, University of Michigan, January 15-16, 1998
14. Honored Guest: 23<sup>rd</sup> Middle East Medical Assembly. Beirut, Lebanon, May 7, 1998
  - *Innovation for Surgery of Brain Tumors*
15. Honored Guest: Hinton-Wright Biomedical Research Society, Harvard Medical School Boston, MA, May 17-19, 1998
16. Keynote Commencement Speaker: College of Medicine, Class of 1998, University of California Irvine. Irvine, CA, June 6, 1998
17. Honored Guest: Fourth Annual John Diggs Lecture, National Medical Fellowship Program, National Institute of Health, Bethesda, MD, July 24, 1998
  - *New Strategies for the Treatment of Brain Tumors.*
18. Keynote Address: South Florida Brain Tumor Association, January 23, 1999
  - *Future Strategies for the Treatment of Brain Tumor*
19. Visiting Professor: University of Utah, Salt Lake City, UT, March 11, 1999
20. Honored Guest: 23<sup>rd</sup> Distinguished Lectureship in Science Program, Angelo State University, San Angelo, TX, April 13, 1999
  - *Applying Basic Research to the Treatment of Brain Cancer.*
21. Visiting Professor: Johns Hopkins University, Baltimore, MD, May 12, 1999
  - *Present and Future Strategies for the Treatment of Malignant Brain Tumors*
22. Visiting Professor: Washington University School of Medicine, St. Louis, MO, September 3, 1999
  - *Treatment of Malignant Brain Tumors*
23. Keynote Address: The Brain Tumor Society, Providence, RI, November 14, 1999
  - *Frontiers of Hope '99.*

24. Visiting Professor: University of California San Diego, La Jolla VA Medical Center, La Jolla, CA, December 10, 1999
  - *Treatment of Brain Tumors.*
25. Keynote Speaker: National Medical Fellowships & Bristol Myers 13th annual symposium Wallingford, CT, March 9, 2000
26. Keynote Speaker: Minority Health Professions Foundation, Washington, DC, April 21, 2000
  - *Annual Symposium on Careers in Biomedical Sciences.*
27. Honored Guest: The Guangdong Neurosurgical Society Meeting, Guangzhou, China, April 3, 2001
  - *Selective opening of the blood-brain barrier in the treatment of brain tumors with RMP-7.*
  - *Immunal gene therapy of malignant gliomas.*
  - *The strategies of microneurosurgery of tumors in brain stem and deep cerebral positions.*
28. Keynote Commencement Speaker: Brody School of Medicine. East Carolina University, Greenville, NC, May 11, 2001
29. Invited Guest: People. Ideas. Nature. Creativity 2 (PINC) Conference, Netherlands, May 14-15, 2001
  - *Future of Medicine Panelist.*
30. Keynote Address: 29<sup>th</sup> Annual Institute and Conference. National Black Nurses Association, Los Angeles, CA, August 9, 2001
31. Keynote Speaker: SCROS. 54<sup>th</sup> Annual Midwinter Radiation Oncology Program, Neurosurgical Considerations for Brain Tumors. Universal City, CA, January 18-20, 2002
32. Visiting Professor: University of Michigan Department of Neurosurgery, Ann Arbor, MI, November, 15-16, 2002.
  - *Immune, molecular, and biochemical targets in the treatment of brain tumors.*
33. Honored Guest: Florida Brain Tumor Association: Sharing the Hope Conference, Fort Lauderdale, Florida, January 17-18, 2003.
  - *New Approaches to Treating Brain Tumors*
  - *Brain Tumors/Strategies in the Battle for a Cure*
34. Invited Guest: Where are we with crossing the Blood Brain Barrier? Accelerate Brain Cancer Cure (ABC<sup>2</sup>) 2003 Conference, Washington, DC, May 7-9, 2003.

35. Visiting Professor: 2003 George Cohn, MD Memorial Lecture, State University of New York in Buffalo, Buffalo, NY, June 5, 2003.
  - *Brain Tumor Treatment: The Next Wave*
  - *Brain Drug Delivery: From Bench to Biotech*
36. Invited Guest: Revolutionary New Methods for Less Invasive Brain Surgery. 2003 TEDMED Conference, Philadelphia, PA, June 11-14, 2003.
37. Visiting Professor: Northwestern University Department of Neurosurgery, Chicago, IL, September 5, 2003.
  - *Brain Tumor Treatment: The Next Wave*
38. Visiting Professor: Stanford University Medical Center, Stanford, CA, November 21, 2003.
  - *Brain Tumor Treatment: The Next Wave*
39. Keynote Speaker: National Medical Fellowships & Bristol Myers Squibb Company, 8th David E. Rogers Memorial Lecture, Lawrenceville, New Jersey, March 3, 2004
40. Keynote Speaker: Minority Health Professions Foundation 18<sup>th</sup> Annual Symposium on Career Opportunities in Biomedical Sciences, Atlanta, Georgia, April 7-9, 2004
41. Keynote Speaker: Gunslinger Health System, State College, Pennsylvania, April 16, 2004
  - *Bench to Bedside: The Newest Research and Therapies for Brain Tumor Treatment*
42. Invited Guest: Young Presidents Organization (YPO) Regional Conference-Viva La Life!, Las Vegas, Nevada, May 13, 2004
  - *Neuroscience Research: The Next Wave*
43. Invited Guest: 2004 Accelerate Brain Cancer Cure Brain Trust Annual Meeting, Dana Point, California, October 28 – October 29, 2004
  - *Blood Brain Barrier Delivery*
44. Keynote Speaker: Cedars-Sinai Medical Center and ChinaCare Medical Symposium on Neurosurgery, Shanghai, China, October 30 - November 4, 2004
  - *Breakthroughs in Cancer Research*
  - *Bench to Bedside: Newest Therapies for Brain Tumor*
45. Keynote Speaker: 2005 Florida Brain Tumor Association (FBTA) Patient Conference, Fort Lauderdale, Florida, January 21-22, 2005
  - *Brain Tumor Therapy: The Next Generation Vaccines for Brain Tumors*
46. Keynote Speaker: 19<sup>th</sup> Annual Symposium on Career Opportunities in Biomedical Sciences, Anaheim, California, March 25, 2005

47. Honored Guest: 2005 Cedars Sinai Medical Center- ABC Hospital Medical Symposium, Mexico City, Mexico, June 24, 2005
  - *The Importance of Stem Cells in Contemporary Neurosurgery*
  - *Skull Base Surgery*
48. Keynote Speaker: 2005 American Brain Tumor Association (ABTA) Patient Conference, Itasca, Illinois, July 8, 2005
  - *New Treatment Horizons: Dendritic Cells, Hyperthermia and Stem Cells*
49. Invited Guest: 2005 Peruvian Neurosurgical Association Medical Symposium, Trujillo, Peru, July 31, 2005
  - *Surgery for Skull Base and Cerebellopontine Angle Tumors*
  - *Advances in the Treatment of Gliomas*
50. Invited Speaker: 2005 Society for Neuroscience Annual Meeting, Washington DC, November 14, 2005
  - *Biochemical Modulation of the Abnormal Blood-Brain Barrier*
51. Visiting Professor: University of Iowa, Iowa City, Iowa, November 17, 2005.
  - *Breakthroughs in Cancer Research*
  - *Bench to Bedside: Newest Therapies for Brain Tumor*
52. Keynote Speaker: 2006 Morehouse College Research Day, Atlanta, GA, February 8, 2006
  - *Current Trends in Brain Tumor Treatment*
53. Program Co-Chair and Invited Speaker: 97<sup>th</sup> Annual American Association of Cancer Research (AACR) Meeting, Washington DC, April 3, 2006
  - *Therapeutic Drug Delivery*
54. Invited Speaker: University of Michigan Hoff Professorship, Ann Arbor, MI, December 15, 2006
  - *Glioblastoma: Is there reason for hope?*
55. Program Co-Chair: SPIE (The International Society for Optical Engineering) BIOS 2007 Meeting - Photonic Therapeutics and Diagnostics Session, January 20, 2007.
56. Invited Speaker: 2007 International Workshop on Glioma Research and Therapy, Boston, MA, October 11, 2007
  - *Vaccination with Tumor Lysate-Pulsed Dendritic Cells Elicits Correlated Immune and Survival Response in Patients with Glioblastoma Multiforme (GBM)*
57. Invited Speaker: Entertainment Gathering 2007, Los Angeles, CA, December 2, 2007

58. Invited Speaker: Karolinska Institute Departments of Neurosurgery and Neurology, Stockholm, Sweden, August 23, 2008
  - *Advances in Neurosurgical approaches To Malignant and Primary Brain Tumors*
59. Keynote Speaker and Program Director: 2008 Gabon Medical Conference, Libreville, Gabon, Africa, October 29, 2008 – October 31, 2008
  - *Improving Treatment of Malignant Brain Tumors*
60. Panelist: 2008 GBM Awareness Day, New York, NY, November 12, 2008.
  - *What's on the horizon – Improving Tumor Drug Delivery and Brain Cancer Vaccines*
61. Keynote Speaker: Florida Brain Tumor Association: Sharing the Hope Conference, West Palm Beach, Florida, January 23-25, 2009.
  - *Vaccine Therapies for Brain Tumors*
62. Keynote Speaker: 6<sup>th</sup> Annual World Congress for Brain Mapping and Image Guided Therapy, Boston, MA, August 28, 2009.
  - *Outsmarting Brain Tumors: from NanoDrugs to Optical Imaging*

**PUBLISHED ABSTRACTS, BOOK REVIEWS, LETTERS TO EDITOR, and SELECTED SCIENTIFIC PRESENTATIONS:**

1. **Black KL:** The discocyte-echinocyte transformation induced by extra corporeal cardiopulmonary bypass during open heart surgery. 84th Annual Meeting of the Ohio Academy of Sciences. Grandville, Ohio, April, 1975
2. **Black KL, Weidler DJ, Soldeman TM, Domino EF, Wagner JG:** Pentobarbital therapy of acute focal cerebral ischemia. Sixth Annual Michigan Cardiovascular Research Forum. Sponsored by the Michigan Heart Association. Ann Arbor, Michigan, September, 1976
3. **Black KL, Weidler DJ, Randall OS:** Improved cerebral micro-circulation in acute focal cerebral ischemia after treatment with pentobarbital. Clin Res 27:714, 1979
4. Weidler DJ, Jallad NS, Das SK, **Black KL, Wagner JG:** Alternation of pharmacokinetic constants for pentobarbital and revision to normal by dexamethasone. Clin Pharmacol Ther 25:252, 1979
5. **Black KL, Kindt GW:** The protective effect of dietary (n-3) fatty acids on cerebral ischemia. 12th Annual Edgar A. Kahn Neurosurgical Meeting. Ann Arbor, MI, September, 1980
6. **Black KL:** Effect of eicosapentaenoic acid on regional cerebral blood flow and cerebral

edema after bilateral carotid occlusion in gerbils. 14th Annual Edgar A. Kahn Neurosurgical Meeting. Ann Arbor, MI, October, 1982

7. **Black KL**, Hoff JT: Eicosapentaenoic acid effect on brain prostaglandins, cerebral blood flow and edema in ischemic gerbils. Stroke 14:126, 1983
8. **Black KL**, Hoff JT: Eicosapentaenoic acid: Effect on brain prostaglandins, cerebral blood flow and edema in ischemic gerbils. Eighth International Joint Conference on Stroke and Cerebral Circulation. San Diego, CA, February 1983
9. **Black KL**, Swanson SE, Hoff JT: Effect of systemic hypotension on post-ischemic cerebral blood flow, edema and brain prostaglandin synthesis in gerbils. Scientific Program of the American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April, 1983
10. **Black KL**: Effect of eicosapentaenoic acid on brain prostaglandins, cerebral blood flow and edema in ischemic gerbils. Workshop on Reperfusion of Ischemic Tissue. Newcastle upon Tyne, England, May, 1983
11. **Black KL**, Hsu S, Hoff JT, Radin NS: Effect of intravenous eicosapentaenoic acid on cerebral blood flow, edema and brain prostaglandins in ischemic gerbils. Stroke 15:197, 1984
12. **Black KL**, Hsu S, Hoff JT, Radin NS: Effect of intravenous eicosapentaenoic acid on cerebral blood flow, edema and brain prostaglandins in ischemic gerbils. Ninth International Joint Conference on Stroke and Cerebral Circulation. Tampa, FL, February, 1984
13. Waters D, **Black KL**, Hoff JT: Effect of parenteral nutrition on vasogenic cerebral edema. Scientific Program of the American Association of Neurological Surgeons Annual Meeting. San Francisco, CA, April, 1984
14. **Black KL**, Hoff JT, Hsu S, Radin NS: Sodium 5-(3'pyridinylmethyl) benzofuran-2-carboxylate (U-63557A) potentiates the protective effect of intravenous eicosapentaenoic acid on impaired cerebral blood flow in ischemic gerbils. Second International Symposium on Prostaglandins. Nuremberg, Germany, May, 1984
15. **Black KL**, Hoff JT: Lipoxygenase products and blood-brain permeability. 16th Annual Edgar A. Kahn Neurosurgical Meeting. Ann Arbor, MI, October, 1984
16. Waters DC, **Black KL**, Hoff JT: Parenteral nutrition potentiates vasogenic edema. Scientific Program of the American Association of Neurological Surgeons Annual Meeting. Atlanta, GA, April, 1985
17. **Black KL**: Leukotrienes and blood-brain barrier permeability. 12<sup>th</sup> International

Symposium on Cerebral Blood Flow and Metabolism. Lund, Sweden, June 1985

18. **Black KL**, Hoff JT, Papadopoulos SM, Gebarski SS, McKeever PE: Leukotrienes and cerebral edema surrounding intracranial tumors in humans. Scientific Program of the Congress of Neurological Surgeons Annual Meeting. Honolulu, HI, October, 1985
19. **Black KL**, Chandler WF, Abrams GD: Intra-arterial vein graft-potential technique to treat inaccessible carotid aneurysms of the cranial base. American College of Surgeons Surgical Forum. Chicago, IL, October, 1985
20. **Black KL**, Venes JL: Evaluation and surgical management of the Arnold Chiari II malformation: Use of magnetic resonance imaging and intraoperative ultrasonography. Annual Meeting of the Pediatric Section of the American Association of Neurological Surgeons. Houston, TX, December, 1985
21. Venes JL, **Black KL**: Arnold-Chiari II malformation: A progressive disorder of cerebrospinal fluid dynamic. Scientific Program of the American Association Neurological Surgeons Annual Meeting. Denver, CO, April, 1986
22. Papadopoulos SM, **Black KL**, Hoff JT: The role of leukocytes and lipoxygenase inhibition on experimental vasogenic edema. Scientific Program of the American Association on Neurological Surgeons Annual Meeting. Denver, CO, April, 1986
23. **Black KL**, Hoff JT: Correlation between leukotriene immunoreactivity and cerebral edema. Annual Meeting of the American Association of Neurological Surgeons. Denver, CO, April, 1986
24. **Black KL**: Are leukotrienes involved in brain edema? The Upjohn Pharmaceutical Company. Kalamazoo, MI, May, 1986
25. **Black KL**, Betz AL, Ar DB: Leukotriene C<sub>4</sub> receptors in isolated brain capillaries. 6th International Conference on Prostaglandins and Related Compounds. Florence, Italy, June, 1986
26. **Black KL**: Cerebral vasculature – prostaglandins, leukotrienes. Review and Update in Neurobiology for Neurosurgeons. Marine Biological Laboratory. Woods Hole, MA, November, 1986
27. **Black KL**: Brain edema: Causes and prospects for treatment. Brain tumor: advanced treatment. UCLA Medical Center, Los Angeles, CA, April, 1987
28. **Black KL**, Rubin JM, Chandler WF, McGillicuddy JE: Intraoperative color-flow Doppler imaging of AVMs and aneurysms. Scientific Program of the Congress of Neurological Surgeons. Annual Meeting. Baltimore, MD, October, 1987

29. Ikezaki K, Toga AW, **Black KL**, Santori EM, Becker DP: 3D reconstruction of flunitrazepam binding on C<sub>6</sub> glioma. Neurosci ABS 1444:167, 1988
30. **Black KL**, Ikezaki K, Becker DP: Imaging of C<sub>6</sub> gliomas with peripheral benzodiazepine receptor ligands. American College of Surgeons - Southern California Chapter, Newport Beach, CA, January, 1988
31. Becker DP, Martin N, Van Dellen JR, **Black KL**: Skull base tumors: Management of neural and meningeal tumors which transverse the skull base. American College of Surgeons, Southern California Chapter, Newport Beach, CA, January, 1988
32. **Black KL**, Becker DP: Transsphenoidal approach to clivus tumors. Neurosurgical Society of America - 41st Annual Meeting. Hot Springs, VA, April, 1988
33. **Black KL**, Becker DP: Transsphenoidal approach to clivus tumors. Skull Base Study Group IV International Congress. Hanover, FRG., June, 1988
34. Becker D, **Black KL**, Martin N, Peacock W: The difficult craniopharyngioma: management and prognosis. The Western Neurosurgical Society. Annual Meeting. Laguna Nigel, CA, September, 1988
35. **Black KL**, Ikezaki K, Becker DP: Utility of peripheral benzodiazepines as a specific ligand for brain tumors. The Western Neurosurgical Society. Annual Meeting. Laguna Niguel, CA, September, 1988
36. Ikezaki K, Toga AW, **Black KL**, Santori EM, Becker DP: 3D reconstruction of flunitrazepam binding on C<sub>6</sub> glioma. Society for Neuroscience. Annual Meeting. Toronto, Canada, November, 1988
37. Grafton ST, Ikezaki K, Luxen A, Chugani D, **Black KL**, Mazziotta JC, Barrio JR, Phelps ME: Labeling of rat C<sub>6</sub> glioma implants with 3-[F18] fluorodiazepam and [H-3] diazepam: **In vitro** tissue homogenate and **in vivo** autoradiographic results. J Cerebr Blood Flow Metabol 9 (Suppl 1):S18, 1989
38. Ikezaki K, **Black KL**, Toga AW, Santori EM, Becker DP, Smith ML: 3D Reconstruction of peripheral benzodiazepine binding to brain tumors. J Cerebr Blood Flow Metabol 9(Suppl 1): S222, 1989
39. **Black KL**, Ikezaki K, Toga AW, Santori EM, Becker DP, Smith ML: **In vitro** binding characteristics of peripheral benzodiazepine receptor ligands to brain tumors. J Cerebr Blood Flow Metabol 9 (Suppl 1): S222, 1989
40. Grafton ST, Ikezaki K, Luxen A, **Black KL**, Mazziotta JC, Barrio JR, Phelps ME: *In vivo* autoradiography of rat C-6 glioma implants with 3-[F18] fluorodiazepam and [H-3] diazepam. Neuro 39 (Suppl):220, 1989

41. Becker DP, Martin N, **Black KL**: Skull base tumors: Management of non-malignant tumors which traverse the skull base. Neurosurgical Society of America Forty-Second Annual Meeting. Bermuda, May, 1989
42. **Black KL**, Ikezaki K, Becker DP: Specific high-affinity binding of peripheral benzodiazepine receptor ligands to brain tumors in rat and man. Neurosurgical Society of America Forty-Second Annual Meeting. Bermuda, May, 1989
43. Kim KT, **Black KL**, Hawkins RA, Marciano D, Guze BH, Grafton S, Mazziotta JC, Kermani S: Thallium-201 SPECT imaging of brain tumors. The Society of Nuclear Medicine - 36th Annual Meeting. St. Louis, MO, June, 1989
44. Grafton ST, Ikezaki K, Luxen A, Chugani D, **Black KL**, Mazziotta JC, Barrio JR, Phelps ME: Labeling of rat C-6 glioma implants with <sup>3</sup>[F18] fluorodiazepam and [H-3] diazepam: **In vitro** tissue homogenate and **in vivo** autoradiographic results. XVI International Symposium on Cerebral Blood Flow and Metabolism. Bologna, Italy, June, 1989
45. Ikezaki K, **Black KL**, Toga AW, Santori EM, Becker DP, Smith ML: 3D Reconstruction of peripheral benzodiazepine binding to brain tumors. XVI International Symposium on Cerebral Blood Flow and Metabolism. Bologna, Italy, June, 1989
46. **Black KL**, Ikezaki K, Toga AW, Santori EM, Becker DP, Smith ML: **In vitro** binding characteristics of peripheral benzodiazepine receptor ligands to brain tumors. XVI International Symposium on Cerebral Blood Flow and Metabolism. Bologna, Italy, June, 1989
47. Ikezaki K, Tabuchi K, **Black KL**, Becker DP: A new image analysis of brain tumors by peripheral benzodiazepine receptor. 48th Annual Meeting of Japanese Association of Neurological Surgeons. September, 1989
48. Ikezaki K, Tabuchi K, **Black KL**, Becker DP: Mapping of peripheral benzodiazepine receptor sites of brain tumors by 3-dimensional image analyzer-Application to positron emission tomography. 48th Annual Meeting of Japanese Association of Neurological Surgeons. September, 1989
49. Ikezaki K, **Black KL**, Becker DP: Binding characteristics of peripheral benzodiazepine receptors in rat and human brain tumor. Japanese Association of Cancer Research (Japanese Cancer Association). September, 1989
50. Canalis RF, **Black KL**, Martin N, Becker D: Retrolabyrinthine-transtentorial approach to the clivus. Annual Meeting, The American Laryngological, Rhinological and Otological Society, Inc. (The Triological Society). September, 1989

51. King WA, **Black KL**, Ikezaki K, Becker DP, Toga AW: Selective opening of the blood-tumor barrier by intracarotid leukotriene C<sub>4</sub> infusion. Scientific Program of the Congress of Neurological Surgeons Annual Meeting. Atlanta, GA, October, 1989
52. **Black KL**, Ikezaki K, Becker DP, Toga AW, Santori EA: Peripheral benzodiazepine receptor binding to brain tumors - implications for PET. Scientific Program of the Congress of Neurological Surgeons Annual Meeting. Atlanta, GA, October, 1989
53. Becker DP, Halamandaris G, **Black KL**, Martin NA: Transphenoidal approach to the cavernous sinus. Skull Base Surgery 1:8, 1990
54. Andrews JC, Martin NA, **Black KL**, Becker DP: The middle cranial fossa transtemporal approach to the intrapetrous internal carotid artery. Skull Base Surgery 1:11, 1990
55. Martin NA, Halamandaris G, **Black KL**, Canalis R, Becker DP: Skull base approaches to the vertebrobasilar arteries for neoplastic and vascular lesions. Skull Base Surgery 1:16, 1990
56. **Black KL**, Becker DP, Berke G: The Rhinoseptal-transsphenoidal-transmaxillary approach "midface degloving" to the clivus. Skull Base Surgery 1:9, 1990
57. **Black KL**: Primary Brain Tumors: A Review of Histologic Classification. W.S. Fields (ed), Springer-Verlag, New York, 1989. Book review - Neurosurgery 27:497, 1990
58. Hoh CK, **Black KL**, Becker DP, Mazziotta JC, Grafton S, Marciano D, Hester A, Hawkins RA: Preoperative thallium-201 SPECT in astrocytomas: correlation with histological evaluation. Journal of Nuclear Medicine 31:825, 1990
59. Hoh, C, Hawkins RA, **Black KL**, Becker DP, Mazziotta JC, Grafton S, Marciano D, Hester A, Phelps ME: Evaluation of brain tumors with F-18 fluorodeoxyglucose (FDG) PET and TL-201 SPECT studies: Correlation with Histological Results. J of Nuclear Medicine 31:799, 1990
60. **Black KL**: Surgical approaches to the clivus. American College of Surgeons, Southern California Chapter, Santa Barbara, CA, January, 1990
61. **Black KL**: Jugular foramen and facial nerve. Panel Discussion. First Annual Meeting of the North American Skull Base Society. Los Angeles, CA, February 18, 1990
62. **Black KL**: Chairman, Afternoon Session. First Annual Meeting of the North American Skull Base Society. Los Angeles, CA, February 19, 1990
63. Martin NA, Halamandaris G, **Black KL**, Canalis R, Becker DP: Skull base approaches to the vertebrobasilar arteries for neoplastic and vascular lesions. First Annual Meeting Skull Base Society. Los Angeles, CA, February 20, 1990

64. **Black KL**, Becker DP, Berke G: The rhinoseptal-transsphenoidal-transmaxillary approach "midface degloving" to the clivus. First Annual Meeting of the North American Skull Base Society. Los Angeles, CA, February 20, 1990
65. Becker DP, Halamandaris G, **Black KL**, Martin NA: Transsphenoidal approach to the cavernous sinus. First Annual Meeting of the North American Skull Base Society. Los Angeles, CA, February, 1990
66. Andrews JC, Martin NA, **Black KL**, Becker DP: The middle cranial fossa transtemporal approach to the carotid artery. First Annual Meeting of the North American Skull Base Society. Los Angeles, CA, February, 1990
67. **Black KL**, Becker DP, Canalis R: The transzygomatic subtemporal approach to temporal-clival tumors. Forty-Third Annual Meeting of the Neurosurgical Society of America. Pebble Beach, CA, April, 1990
68. **Black KL**, King WA, Ikezaki K, Conklin S, Becker DP: Selective opening of the blood-tumor barrier by intracarotid infusion of leukotriene C<sub>4</sub>. Scientific Program of the American Association of Neurological Surgeons Annual Meeting. Nashville, TN, April, 1990
69. Ikezaki K, **Black KL**, Toga AW, Becker DP: A new image analysis of brain tumor using peripheral benzodiazepine: Three-dimensional display and implications for positron emission tomography. Scientific Program of the American Association of Neurological Surgeons Annual Meeting. Nashville, TN, April, 1990
70. Halamandaris G, Becker DP, **Black KL**, Martin N: Transsphenoidal (anterior-inferior) approach to the cavernous sinus. Scientific Program of the American Association of Neurological Surgeons Annual Meeting. Nashville, TN, April, 1990
71. King WA, **Black KL**, Ikezaki K, Conklin S, Becker DP: Novel 21-aminosteroids prevent tumor-associated neurological dysfunction. Scientific Program of the American Association of Neurological Surgeons Annual Meeting. Nashville, TN, April, 1990
72. **Black KL**: Chairman Session II: Tumor II. The Eighth International Symposium on Brain Edema. June, 1990
73. **Black KL**, King W, Ikezaki K: Selective opening of the blood-tumor barrier by intracarotid infusion of leukotriene C<sub>4</sub>. The Eighth International Symposium on Brain Edema, Bern, Switzerland, June, 1990
74. King WA, **Black KL**, Ikezaki K, Conklin S, Becker DP: Novel 21-Aminosteroids prevent tumor associated neurological dysfunction. The Eighth International Symposium on Brain Edema. Bern, Switzerland, June, 1990

75. **Black KL:** Comprehensive management of patient with primary cerebral gliomas. International Course on Clinical Neurosurgery. Hanover, Germany, July, 1990
76. **Black KL:** Antioxidant/Eicosanoid inhibitors. Tenth International Symposium on Microvascular Surgery for Cerebral Ischemia. San Francisco, CA, July, 1990
77. Ikezaki K, **Black KL**, Tabuchi K: Biological roles of peripheral benzodiazepine receptors in brain tumor. International Symposium on Advances in Neurooncology. Sanremo, Italy, September, 1990
78. **Black KL:** Director - Skull base surgery course. Scientific Program of the Congress of Neurological Surgeons. Los Angeles, CA, October, 1990
79. **Black KL:** Brain tumors. 63rd Annual Clinical Assembly of Osteopathic Specialists. Los Angeles, CA, October, 1990
80. Ikezaki K, **Black KL**, Tabuchi K, Conklin SG: Histochemical Evaluation of Energy Metabolism in Brain Tumor. 49th Annual Meeting of the Japan Neurosurgical Society, Tokyo, Japan. October, 1990
81. Ikezaki K, **Black KL**, Tabuchi K: Peripheral Benzodiazepine Receptors in Brain Tumor. 8th Nikko Brain Tumor Conference. November 1990
82. **Black KL:** Clinical applications of positron emission tomography to imaging of the brain. Proceedings of the forum on investigational and experimental modalities. Health Insurance Association of America. March, 1991
83. **Black KL:** Special Panel: Intradural and Extradural Clival Lesions. North American Skull Base Society. Lake Buena Vista, FL, March 1991
84. **Black KL:** Radical Approaches to the Anterior Skull Base and clivus. Forty-fourth Annual Meeting of the Neurosurgery Society of America. San Destin, FL, May 1991
85. **Black KL:** Biological and immunological aspects of brain tumors. 9th European Congress on Neurosurgery. Moscow, USSR, June 1991
86. **Black KL:** Imaging and Functional Localization for Brain Tumors. Scientific Program of the Congress of Neurological Surgeons. Orlando, FL, October, 1991
87. **Black KL:** Moderator: Luncheon seminar - Glioma-Aggressive surgical resection vs biopsy. Scientific Program of the Congress of Neurological Surgeons. Orlando, FL, October, 1991
88. **Black KL:** Brain Tumors: Types, Symptoms, Diagnosis, Management. California Medical Association Annual Session. Anaheim, CA, March 14, 1992

89. Chio CC, **Black KL**, Baba T, Toga AW, Becker DP: Dose response and time course study of selective opening of the blood-tumor barrier by intracarotid infusion of Leukotriene C<sub>4</sub>. American Association of Neurological Surgeons, San Francisco, CA, April 1992
90. **Black KL**: Anterior Approaches to the Skull Base - Extended Maxillotomy Approach. Practical Clinic XII. American Association of Neurological Surgeons. 1992 Annual Meeting. Moscone Center, San Francisco, CA. April 1992
91. Baba T, **Black KL**, Inamura T, Toga AW, Becker DP: Metabolism of Leukotrienes in Isolated Bovine Brain Capillaries and Effects of Leukotrienes on Blood-Brain Barrier in Ischemic Rat Brains: Evidence of Enzymatic Barrier. American Association of Neurological Surgeons. 1992 Annual Meeting. Moscone Center, San Francisco, CA, April 1992.
92. De Salles A, Rubino GJ, Goetsch S, **Black KL**, et al.: Radiosurgery Planning for Glioblastoma Multiforme. American Association of Neurological Surgeons. 1992 Annual Meeting. Moscone Center, San Francisco, CA, April 1992
93. Shiraishi T, **Black KL**, Bredesen DE, Becker DP: Suppression of Peripheral Benzodiazepine Receptor by Antisense Oligonucleotides Inhibits the Activity of DNA Polymerase in Cultured Glioma Cells. American Association of Neurological Surgeons. 1992 Annual Meeting. Moscone Center, San Francisco, CA, April 1992
94. Takeshita I, **Black KL**, Inamura T, Ikezaki K, Fukui M : Peritumoral Brain Edema in Meningiomas: Influence of Vascular Supply from Intrinsic Arteries. American Association of Neurological Surgeons. 1992 Annual Meeting. Moscone Center, San Francisco, CA, April 1992
95. **Black KL**: Clinical Trial of *Serratia marcescens* Extract and Radiation Therapy in Patients with Malignant Astrocytomas. The 5th Canadian Neuro-oncology Meeting. Deerhurst Resort, Huntsville, Ontario, June 1992
96. **Black KL**: Spinal Cord Tumors. The 27th Meeting of Medical Society of Paraplegia. Sapporo and Fukuoka, Japan, September, 1992
97. **Black KL**: Luncheon Seminar: Surgical approaches to the skull base. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992
98. **Black KL**: Luncheon Seminar: Applications of molecular biology to brain tumor management. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992
99. **Black KL**: Luncheon Seminar: Applications of molecular biology to brain tumor management. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992

100. **Black KL**: Practical Course Speaker: Skull base surgery - Lateral and infratemporal approaches. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992
101. Rodts GE, King WA, **Black KL**, McBride DO, Becker DP: Microsurgical management of giant pituitary tumors. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992
102. **Black KL**, Emerick J, Hoh C, Hawkins RA, Mazziotta J, Becker DP: Thallium 201 SPECT and positron emission tomography equal predictions of glioma grade and recurrence. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992
103. **Black KL**, Ciacci JR, Ammirati M, Selch M, Becker DP: Clinical trial of serratia marcescens extract and radiation therapy in patients with malignant astrocytoma. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992
104. DeSalles AAF, Goetsch S, **Black KL**, Selch M, Solbert T, Holly EF, Becker DP: Dose escalation of radiosurgery for high-grade gliomas. Scientific Program of the Congress of Neurological Surgeons, Washington, D.C., October, 1992
105. Boado RJ, Pardridge WM, **Black KL**: Differential Expression of 5-Lipoxygenase Transcripts in Human Brain Tumors. Society for Neuroscience. October, 1992
106. Farahani K, Lufkin RB, Saxton RE, Anzai Y, Sinha S, De Salles AAF, **Black KL**: T1-weighted MR image enhancement of thermally coagulated blood due to hemoglobin denaturation. Radiology 189(P):167, 1993
107. **Black KL**: New protocols for treatment of CNS malignancies. Annual Symposium, Southern California Neurosurgical Society, Los Angeles, CA, April, 1993
108. Thomas D, Sen C, Kawase T, **Black KL**, Munzenrider J: Initial management of skull-base chordoma and chondrosarcoma. Scientific Program of the American Association of Neurological Surgeons, Boston, MA, April, 1993
109. Quinn B, DeSalles AA, **Black KL**, Becker DP, Toga AW: Stereotactic radiosurgical and multimodal therapy of malignant glioma. Scientific Program of the American Association of Neurological Surgeons, Boston, MA, April, 1993
110. Kim OL, Inamura T, Rodts GE, Becker DP, **Black KL**: Transforming growth factor- $\beta$  affects the majority of leukocytes within glioblastoma multiforme. Scientific Program of the American Association of Neurological Surgeons, Boston, MA, April, 1993

111. Ciacci JD, DeSalles AAF, **Black KL**, Selch M, Goetsch S, Becker DP: Stereotactic radiosurgery as part of the treatment of malignant gliomas. Scientific Program of the American Association of Neurological Surgeons, Boston, MA, April, 1993
112. Inamura T, Pardridge WM, Rodts GE, Becker DP, **Black KL**: Absence of dehydropeptidase I, a peptidyl leukotriene metabolizing enzyme, in brain microvessels. Scientific Program of the American Association of Neurological Surgeons, Boston, MA, April, 1993
113. Rodts GE, Momozaki N, Kumar S, de Vellis J, **Black KL**: Effect of nerve growth factor of C6 gliomas In Vitro. Scientific Program of the American Association of Neurological Surgeons, Boston, MA, April, 1993
114. **Black KL**: Gliomas: Novel therapeutic strategies. Luncheon Seminar of the Congress of Neurological Surgeons 43rd Annual Meeting, Vancouver, B.C., October, 1993
115. **Black KL**: Moderator of the General Scientific Session IV: Anatomical principles of CNS tumor surgery. Congress of Neurological Surgeons 43rd Annual Meeting, Vancouver, B.C., October, 1993
116. Inamura T, Ikezaki K, Nomura T, **Black KL**: Intracarotid histamine infusion selectively increases the blood tumor permeability in experimental brain tumors. Congress of Neurological Surgeons 43rd Annual Meeting, Vancouver, B.C., October, 1993
117. Nomura T, Kiyonobu I, **Black KL**, Fukui M: The effect of neurotransmitters on the regional cerebral blood flow in transplanted rat brain tumors. Congress of Neurological Surgeons 43rd Annual Meeting, Vancouver, B.C., October, 1993
118. **Black KL**, Ciacci J: The midface degloving surgical approach to chordomas of the clivus. Congress of Neurological Surgeons 43rd Annual Meeting, Vancouver, B.C., October, 1993
119. **Black KL**: Imaging and drug delivery to tumor-infiltrated brain. Scientific Session Congress of Neurological Surgeons 43rd Annual Meeting, Vancouver, B.C., October, 1993
120. Farahani K, Lufkin RB, Saxton RE, Anzai Y, Sinha S, DeSalles AAF, **Black KL**: Hemoglobin denaturation as a mechanism for tissue T1-relaxation shortening in interventional MRI-monitored Thermal ablations. Radiological Society of North America, Chicago, IL, November, 1993
121. DeSalles A, **Black KL**, Fried I, Sinha S, Lufkin RB: Interventional MRI update. 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, IL, November, 1993

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128. **Black KL**, Tindall GT: Moderator of Seminar VII: Pituitary tumors and transsphenoidal approaches. North American Skull Base Society and German Skull Base Society Joint Annual Meeting, Orlando, FL, February, 1994
129. Al-Mefty O, **Black KL**, Van Loveren H, Sekhar L: Surgical approaches to the anterior skull base. 62nd Annual Meeting of the American Association of Neurological Surgeons, San Diego, CA, April, 1994
130. Tew J, Robertson J, Samii M, **Black KL**: Tumors of the clivus and foramen magnum. 62nd Annual Meeting of the American Association of Neurological Surgeons, San Diego, CA, April, 1994
131. Salzman M, **Black KL**, Brem H, Oldfield E: Novel treatments for malignant gliomas. 62nd Annual Meeting of the American Association of Neurological Surgeons, San Diego, CA, April, 1994
132. **Black KL**, Inamura T: Bradykinin selectively opens blood-tumor barrier in experimental brain tumors: Neurosurgical Society of America May, 1994
133. **Black KL**, Haglund MM, Zamorano L: Intraoperative MRI and functional mapping. Congress of Neurological Surgeons 44th Annual Meeting, Chicago, IL, October, 1994
134. **Black KL**, Menezes AH, Traynelis VC: Management of clival lesions. Congress of Neurological Surgeons 44th Annual Meeting, Chicago, IL, October, 1994

135. **Black KL:** Management of tumors of the occipital-cervical junction. Congress of Neurological Surgeons 44th Annual Meeting, Chicago, IL, October, 1994
136. Badie B, **Black KL:** Intratumoral injection of P53 gene using adenoviral vector inhibits 9L glioma growth in rats. Congress of Neurological Surgeons 44th Annual Meeting, Chicago, IL, October, 1994
137. Nomura T, Inamura T, Matsukado K, **Black KL:** Bradykinin selectively opens blood-tumor barrier in experimental brain tumors. Congress of Neurological Surgeons 44th Annual Meeting, Chicago, IL, October, 1994
138. Matsukado K, Inamura T, Nomura T, **Black KL:** Intracarotid infusion of bradykinin analog: A method for selective drug delivery to brain tumors. Congress of Neurological Surgeons 44th Annual Meeting, Chicago, IL, October, 1994
139. Inamura T, Nomura T, Elliott PJ, Bartus RT, **Black KL:** Selective opening of the blood-tumor barrier: Role for RMP-7 in chemotherapy. Society for Neuroscience November, 1994
140. Farahani K, **Black KL**, Lufkin RB: Chronic MRI study of thermally controlled radiofrequency lesions in the brain. Congress of Neurological Surgeons Annual Meeting San Francisco, CA, October, 1995
141. Farahani K, Badie B, **Black KL**, Lufkin RB: MRI assessment of the effect of mannitol and dexamethasone on thermal lesions in the brain. Congress of Neurological Surgeons Annual Meeting San Francisco, CA, October, 1995
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143. Farahani K, **Black KL**, Lufkin RB: A chronic study of temperature controlled lesions in the brain. Radiology 197(P):237, 1995
144. Cannestra AF, Toga AW, **Black KL:** The temporal/spatial evolution of optical signals in humans. Society of Neurosci 21(P)1208, 1995
145. **Black KL:** Surgical approaches to the anterior skull base, orbit and perinasal sinus. 63rd Annual Meeting of the American Association of Neurological Surgeons, Orlando, FL, April 1995
146. **Black KL:** Management of metastatic disease of the central nervous system. 63rd Annual Meeting of the American Association of Neurological Surgeons, Orlando, FL, April 1995
147. Sloan AE, Alexander M, Johnson JP, Canalis R, McBride DQ, **Black KL:** Modification of the transoral approach for clival and craniovertebral junction lesions. 63rd Annual Meeting of the American Association of Neurological Surgeons Orlando, FL, April 1995

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149. Holly L, Pollinger G, Economou J, **Black KL**: Failure of systemic injection of IL-2-secreting fibroblasts and C6 to enhance immunity in brain to glioma. 63rd Annual Meeting of the American Association of Neurological Surgeons Orlando, FL, April 1995
150. **Black KL**: Intraoperative MRI and functional mapping. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October, 1995
151. **Black KL**: Management of clival lesions. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October, 1995
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155. Cannestra AF, Toga AW, **Black KL**: The temporal/spatial evolution of optical signals in humans. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995
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157. Tsukamoto H, Boado RJ, Markham C, **Black KL**, Pardridge, WM: Cis-element/cytoplasmic protein interactions between the 3'-untranslated region of the human GLUT1 glucose transporter mRNA and cytosolic proteins in human brain tumors. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995
158. **Black KL**: Chairperson, Blood-brain barrier scientific session. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995
159. Cornford EM, Hyman S, **Black KL**, Cornish ME, Vinters HV, Pardridge WM: High

GLUT1 glucose transporter expression in hemangioblastoma endothelia. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995

160. Jane JA, **Black KL**, Wright DC, Sternau L, Kanno T, Basso A: Surgical approaches to the anterior skull base, orbit and perinasal sinus. 64th Annual Meeting of the American Association of Neurological Surgeons Minneapolis, MN, April-May, 1996
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163. Badie B, Toloza EM, Economou JS, **Black KL**: Adenoviral-mediated recombinant interleukin-2 gene delivery inhibits the tumorigenicity of subcutaneous murine gliomas. 64th Annual Meeting of the American Association of Neurological Surgeons Minneapolis, MN, April-May, 1996
164. Sloan AE, Holly LT, Becker DP, **Black KL**: Chordomas and chondrosarcomas of the cranial base: results of extensive microsurgical resection and limited radiotherapy in a series of 28 patients. 64th Annual Meeting of the American Association of Neurological Surgeons Minneapolis, MN, April-May, 1996
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168. Liao LM, Fakhrai H, **Black KL**: Prolonged survival of rats with intracranial C6 gliomas by treatment with TFG- $\beta$  antisense gene. 46<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons Montreal, Quebec, September 28-October 3, 1996

169. Patt BE, Tornai MP, Iwanczyk JS, Hoffman EJ, Levin CS, **Black KL**: Intraoperative gamma camera for locating residual subclinical tumor in the brain. 46<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons Montreal, Quebec, September 28- October 3, 1996
170. Matsukado K, Nakano S, Bartus RT, **Black KL**: Steroids decrease uptake of carboplatin in rat gliomas—Uptake improved by intracarotid infusion of bradykinin analog, RMP-7. 46<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons Montreal, Quebec, September 28-October 3, 1996
171. Matsukado K, Natano S, Bartus RT, **Black KL**: Intracarotid RMP-7 selectively increases the tumor permeability via activation of bradykinin B2 receptors in malignant gliomas. 46<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons Montreal, Quebec, September 28-October 3, 1996
172. **Black, KL**: Vaccine Therapy for malignant astrocytoma. Contemporary Issues in the Management of Brain Tumors, NY Medical Center, New York, NY, November 15, 1996
173. Toga AW, Cannestra AF, **Black KL**, Bookheimer SY: Neurovascular response differences revealed by optical intrinsic signal imaging and functional magnetic resonance imaging. NeuroImage 5(4)S356, 1997
174. Toga AW, Cannestra AF, **Black KL**, Cloughesy T, Burton JS, Rubinstein E, Mazziotta JC: Human intraoperative functional brain mapping using optical intrinsic signals. Neurosci Abs 23:1578, 1997
175. Al-Mefty O, **Black KL**, Wright D, Sternau L, Rosseau G: Surgical approaches to the anterior skull base. 65<sup>th</sup> Annual Meeting of the American Association of Neurological Surgeons, Denver, CO, April 12-17, 1997
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177. Matsukado K, Sugita M, Bartus RT, **Black KL**: Intracarotid RMP-7 selectively increases the tumor permeability via activation of bradykinin  $\beta$ 2 receptors in malignant gliomas. 65<sup>th</sup> Annual Meeting of the American Association of Neurological Surgeons, Denver, CO, April 12-17, 1997
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179. Nakano S, Sugita M, Matsukado K, **Black KL**: Increased brain tumor microvessel permeability after intracarotid bradykinin infusion is mediated by nitric oxide. 65<sup>th</sup> Annual Meeting of the American Association of Neurological Surgeons, Denver, CO, April 12-17, 1997
180. Sugita M, Nakano S, Matsukado K, **Black KL**: Immunohistochemical detection of nitric oxide synthase in experimental rat gliomas. 65<sup>th</sup> Annual Meeting of the American Association of Neurological Surgeons, Denver, CO, April 12-17, 1997
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182. Hunt GE, Sugita M, Dean SB, **Black KL**: Inhibition of nitric oxide synthase through the negative feedback of nitric oxide. 65<sup>th</sup> Annual Meeting of the American Association of Neurological Surgeons, Denver, CO, April 12-17, 1997
183. **Black KL**: Advances in Neuroscience – The Frontier for Medicine. National Medical Association Annual Convention and Scientific Assembly, Honolulu, HI, August 2-7, 1997
184. **Black KL**: Novel Treatments of Brain Tumors. The Albert R. Taxin Brain Tumor Symposium, Wistar Institute, Philadelphia, PA, September 24, 1997
185. **Black, KL**, Brem H, Badie B, Loeffler J: A Discussion of Localized Treatments for Brain Cancer. Plimsoll Club, New Orleans, LA, September 29, 1997
186. Oldfield E, Market J, **Black KL**: Strategies in Genetic Treatment of Neurologic Diseases. 47<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA, September 27-October 2, 1997
187. **Black KL**: Localized Treatments for Brain Cancer. 47<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA, September 26 – October 2, 1997
188. Masao S, Hunt GE, **Black KL**: Bradykinin-Induced Selective Opening of the Blood-Tumor Barrier is Self-Regulated by Nitric Oxide-Cyclic GMP Pathway. 47<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA, September 27-October 2, 1997
189. **Black KL**: Malignant Gliomas: Past, Present, and Future Strategies. Scientific Session Congress of Neurological Surgeons 47<sup>th</sup> Annual Meeting, New Orleans, LA, September 27 – October 2, 1997
190. **Black KL**: Novel Approaches to Brain Tumor Treatment. 29<sup>th</sup> Annual Western Neuroradiological Society Meeting. Palm Springs, CA, October 2-5, 1997
191. **Black KL**: Emerging Neurosurgical Therapies - Novel Approaches to Brain Tumor

Treatment. 29<sup>th</sup> Annual Meeting Western Neuroradiological Society, Palm Springs, CA, October 2-5, 1997

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193. Buznikov A, Lallone R, Seitz R, Liao LM, Geshwind D, Vu T, **Black KL**, Bronstein JM: Identification of glioma-specific antigens using differential (DIA) immuno-absorption and cDNA subtraction. Society for Neuroscience Annual Meeting New Orleans, LA, October, 1997
194. Cannestra AF, **Black KL**, Toga AW: Human intraoperative functional brain mapping using optical intrinsic signals and warping algorithms. J Investigative Medicine 46(1):76A, 1998
195. **Black, KL**: Future Strategies for the Therapy of Brain Tumors. Los Angeles Society of Neurological Sciences. Los Angeles, CA, February 18, 1998
196. **Black KL**: New Neurosurgical Advances Using Guided Imagery. 1998 Lockhart Symposium, University of California, Irvine. Irvine, CA, April 8, 1998
197. **Black KL**: Clinical & Research Issues in Brain Tumor: Present Trends and Future Management. The Rehabilitation Institute at Santa Barbara Annual Medical Staff Dinner and Lecture. Santa Barbara, CA, May 20, 1998
198. **Black KL**: From the Bench to Clinical Application. Congress of Neurological Surgeons Annual Meeting. Seattle, WA, October 5, 1998
199. **Black KL**: Advances in Glioma Management. Congress of Neurological Surgeons Annual Meeting. Seattle, WA, October 7, 1998
200. **Black KL**: Adjunct Treatment of Recurrent Glioblastoma Multiforme. Oncology Speakers Bureau, Pharmedica. Santa Barbara, CA, December 14, 1998
201. **Black KL**: Treatment of Glioblastoma, South Florida Brain Tumor Association Bi-Annual Conference, Fort Lauderdale, FL January 23, 1999
202. **Black KL**: A Neurosurgeon's Approach to 'cultural Diversity. Third Symposium on Human Medicine. Miami Beach, FL, February 20, 1999
203. **Black KL**: Advances in the Treatment of Primary Tumors of the Central Nervous System. Oncology Speakers Bureau, Pharmedica. Fort Worth, TX, March 10, 1999
204. **Black KL**: Adjunct Treatment of Recurrent GBM. Oncology Speakers Bureau, Pharmedica, Sandy, UT, March 11, 1999

205. **Black KL**: Current and Future Treatment Trends for Brain Tumors. 25<sup>th</sup> Annual Neurology Symposium, Kaiser Permanente. Pasadena, CA March 27, 1999
206. **Black KL**: Brain Tumor Surgery: Past, Present and Future. 30<sup>th</sup> Annual National Conference, Association of Surgical Technologies. Las Vegas, NV, May 31, 1999.
207. Yu JS, Liu Y, Zhang H, Wheeler C, Samoto K, Liu C, Villareal L, **Black KL** : Intracranial Adenoviral Interleukin 12 Delivery Effects Potent and Long-Lasting Immunity Against Glioma. 49<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons. Boston, MA, October 30 – November 4, 1999.
208. **Black KL**, Wheeler C, Zeltzer P, Nacis D, Lee P, Yu JS: FasL Expression in Tumor Vessels of Patients with Glioblastoma Multiforme. 61<sup>st</sup> Annual Meeting, The American Academy of Neurological Surgery. Amelia Island, FL, November 10- 13, 1999.
209. Ljubimova JY, Khazenzon N, Neyman J, **Black KL**: Current Approaches to the Identification of Genes Differentially Expressed in Tumors, The 4<sup>th</sup> World Congress on Advances in Oncology and 2<sup>nd</sup> International Symposium on Molecular Medicine. Vouliagmeni, Athens, Greece, October 7 – 9, 1999
210. Ningaraj N, Uchida M, Yamamoto V, Asotra K, **Black KL**: Nitric Oxide Donors Increase Blood-Brain Tumor Barrier Permeability VIA  $K_{CA}$  Channels. Society For Neuroscience Annual Meeting 26 (1): 126.8, 2000
211. Ljubimova JY, Doonan K,W Loksh A, **Black K**: Gene Array Analysis for Outcome Prediction In-Patients with Brain Tumors, The Fifty-Third Annual Meeting of the Neurosurgical Society of America.. Durango, CO, June 4 – 7, 2000
212. Yu J, Ehtesham M, Samoto K, Lui Y, **Black KL**: Endothelial fasL Expression Inhibits a Cytotoxic T-cell Response in Glioblastoma, The Fifty Third Annual Meeting of the Neurosurgical Society of America. Durango, CO, June 4 – 7, 2000
213. **Black KL**, Wheeler C, Zeltzer P, Yu J: Dendritic Cell Immunotherapy for Malignant Glioma, The Fifty Third Annual Meeting of the Neurosurgical Society of America. Durango, CO, June 4 – 7, 2000
214. Yu J, Wheeler C, Zeltzer P, Nacis-Finger D, Lee P, Prins R, Young W, Thompson R, Riedinger M, Zhang W, **Black KL**: Vaccination of Recurrent Malignant Glioma Patients with Tumor-Lysate Pulsed Dendritic Cells Elicits a Potent T-Cell Anti-Tumor Response. Congress of Neurological Surgeons Annual Meeting p.129, September, 2000
215. **Black KL**, Wheeler C, Zeltzer P, Nacis-Finger D, Lee P, Prins R, Young W, Thompson R, Riedinger M, Zhang W, Yu J: Dendritic Cell Vaccination of Patients with Malignant Glioma Elicits Systemic and Intracranial T-Cell Response. Congress of Neurological Surgeons Annual Meeting p. 130 , September, 2000

216. Ying H, Leitner W, Wang R, Irvine K, Wheeler C, **Black KL**, Restifo N: Cancer Therapy A Self-Replicating Nucleic Acid Vaccine. Congress of Neurological Surgeons Annual Meeting p. 37 , September, 2000
217. Asotra K, Liu Y, Hashizume K, Chen Z, Samoto K, Ningaraj N, **Black KL**: Correlation Between Bradykinin-Induced Blood-Tumor Barrier Permeability and B2 Receptor Expression in Experimental Brain Tumors. Congress of Neurological Surgeons Annual Meeting p.42, September, 2000
218. Ljubimova J, Doonan K, Loksh A, Lakhter A, **Black KL**: Gene Array Analysis for Outcome Prognosis of Patients with Brain Tumors. Congress of Neurological Surgeons Annual Meeting p. 209 , September, 2000
219. Wheeler C, Lau R, Prins R, Incardona F, Samoto K, Perlmutter R, Littman D, **Black KL**: Naïve T Cell Death and Replenishments in Experimental Glioma Progression. Congress of Neurological Surgeons Annual Meeting p.213, September, 2000
220. Pikul B, Kateb B, Rosemark P, Leu M, Cook R, Armen S, Tsimerinov E, Thompson R, **Black KL**: Volumetric Quatitation of Extent Resection of Human Gliomas Using X-Knife Stereotactic Radiosurgical Planning Software- Methodology and Technical Aspects. Congress of Neurological Surgeons Annual Meeting p.215 (429), September, 2000
221. Ningaraj N, Yamamoto V, Asotra K, **Black KL**: Role of ATP-sensitive K<sup>+</sup> Channels in Blood-Brain Tumor Barrier Permeability. Congress of Neurological Surgeons Annual Meeting p.215 (430), September, 2000
222. Hashizume K, Asotra K, **Black KL**: Increased Brain Tumor Microvessel Permeability after Intracarotid Leukotriene C4 Infusion is Mediated by cyclic GMP. Congress of Neurological Surgeons Annual Meeting p. 218, September, 2000
223. Ningaraj N, Hashizume K, Asotra K, **Black KL**: Ca<sup>2+</sup>-Dependent K<sup>+</sup> Channels Are a Key Regulator of Blood-Brain Tumor Barrier Permeability. Congress of Neurological Surgeons Annual Meeting p. 219 , September, 2000
224. Uchida M, Ningaraj N, Chen Z, **Black KL**: Asotra: Cyclic GMP- Dependent Blood-Brain Tumor Barrier Permeability is Not Mediated by Cyclic GMP- Dependent Protein Kinase. Congress of Neurological Surgeons Annual Meeting p. 220 , September, 2000
225. Asotra K, Oshiro S, Liu Y, Fkukushima T, **Black KL**: Modified Immunoregulation Associated with Interferon-Gamma Treatment of Rat Glioma. Congress of Neurological Surgeons Annual Meeting. P. 221, September, 2000
226. Uchida M, Chen Z, **Black KL**, Asotra K: Transient and Stable Expression of Ligand-Binding Competent Bradykinin Receptor Type 2 in C6 and 9L Rat Glioma Lines. Congress of Neurological Surgeons Annual Meeting p. 221 , September, 2000

227. **Black KL:** Novel Targets and Mechanisms for the Blood-Brain Tumor Barrier Permeability Modulation, The 59<sup>th</sup> Annual Meeting of The Japan Neurosurgical Society. Japan, October 25-26, 2000
228. **Black KL:** Transmaxillary Translingual Approach to the Clivus, The 59<sup>th</sup> Annual Meeting of The Japan Neurosurgical Society. Japan, October 25-26, 2000
229. **Black KL:** Dendritic Cell Vaccination of Patients with Malignant Glioma Elicits Systemic and Intracranial T-Cell Response. The 59<sup>th</sup> Annual Meeting of The Japan Neurosurgical Society. Japan, October 25-26, 2000
230. **Black KL:** Novel Delivery Strategies, The Fifth Detroit Neurosurgery Symposium. Detroit, MI, November 3 – 5, 2000
231. **Black KL:** Advances and management of brain tumors. L.A. Metropolitan Medical Center. Marina Del Rey, CA, November 8, 2000
232. Yu JS, Wheeler CJ, Zeltzer PM, Nacis-Finger D, Lee PK, Prins R, Young WH, Thompson RC, Riedinger M, Zhang W, **Black KL:** Dendritic cell vaccination of patients with malignant glioma elicits systemic and intracranial T-cell response. The Western Neurological Society P 13, 2001
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