



CEDARS-SINAI MEDICAL CENTER®

Keith L. Black, MD

Chairman, Department of Neurosurgery
Director, Maxine Dunitz Neurosurgical Institute
Ruth and Lawrence Harvey Chair, Neuroscience

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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
With Distinction

August, 1978

Medical Degree
With Distinction

May, 1981

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 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

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	1997-2006
Director, Maxine Dunitz Neurosurgical Institute Department of Surgery Cedars-Sinai Medical Center Los Angeles, CA	1997-Present
Chairman Department of Neurosurgery Cedars-Sinai Medical Center Los Angeles, CA	2006-Present

OTHER APPOINTMENTS:

Founder, Microsurgeon Incorporated	1997
Founder, Imagine Pharmaceuticals	2003

HONORARY SOCIETIES

Alpha Omega Alpha Honorary Medical Society	1981
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HONORS AND AWARDS (selected):

Westinghouse Science Award	1975
Bachelor of Science Degree with Distinction	1978
American College Scholarship Award for Academic Excellence	1979

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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

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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 st Century	1999
Esquire Magazine The 21 Most Important People of the 21 st 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	2004

Women of Pasadena

Minority Access, Inc. 2004
2004 National Role Models – Innovator Award

Minorities in Business 9th Annual Multicultural Prism Awards
MIB Corporate Angel Award 2004

Southeast Symphony Humanitarian Award 2005
Walt Disney Hall

March of Dimes Honoree 2005

America's Top Doctors for Cancer 2005 -Present

Trumpet Awards Foundation Award in Medicine
Sponsored by Turner Broadcasting 2006

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
American Association for Cancer Research	2003

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

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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
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

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, 2000</i>	2000
Director – Management of Brain Tumors Las Vegas Hilton Las Vegas, NV <i>June 10, 2000</i>	2000

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 th 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

OTHER SERVICES

Board of Directors of the Los Angeles World Affairs Council	1997- 2001
Medical Advisory Board, National Brain Tumor Association	1997-Present
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 2004-2010

Member, Transition Team for Mayor Elect Antonio Villaraigosa 2005

EDITORIAL BOARDS:

UCLA Cancer Trials Newsletter - Editorial Board 1989-1997

Critical Reviews in Neurosurgery - Editorial Board 1990-1999

Perspectives in Neurological Surgery - Editorial Board 1992-1997

Journal of Neuro-Oncology - Editorial Board 1994-1998

Neurological Research - Editorial Board 1995-Present

Journal of Radiosurgery - Editorial Board 1997-2001

Gene Therapy and Molecular Biology – Editorial Board 1998-Present

Neuroscience Medicine and Technology (Net) Editor 2001-Present

Neurosurgery Quarterly – Editorial Board 2001-Present

Frontiers in Bioscience-Editorial Board 2003-Present

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-Present
Kazuhiro Hashazume, M.D.	1998-Present
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

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

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 <i>Opportunity Award Program Research Grant</i> \$8,000	1979-1980
Co-Principal Investigator: Effect of Omega 3 Fatty Acids on Cerebral Ischemia in Cats <i>Opportunity Award Program Research Grant</i> \$8,000	1979-1980
Principal Investigator: Relation of Regional Cerebral Blood Flow in Cerebral Ischemia to Brain Prostaglandin and Thromboxane Levels <i>Michigan Diabetes Research and Training Grant</i> \$2,000	1982-1983
Principal Investigator: Relation of Regional Cerebral Blood Flow in Cerebral Ischemia to Brain Prostaglandin and Thromboxane Levels <i>Michigan Diabetes Research and Training Grant</i> \$2,000	1982-1983
Co-Principal Investigator: Effect of Menhaden Fish Oil on Cerebral Ischemic Edema <i>Biomedical Research Support Grant (NIH)</i> \$5,000	1982-1983
Principal Investigator: Biochemical Modulation of the Blood-Tumor Barrier <i>Academic Senate - UCLA</i> \$1,000	1987-1988

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

Principal Investigator:
Imaging of C₆ 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
Whitaker Foundation
\$30,797

1994

Principal Investigator: Project 4

Biochemical Modulation of the Blood-Brain Barrier
Program Project - Biology of Blood-Brain Barrier
National Institute of Health (P01-NS-25554)
\$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
Alkermes, Inc. (ALK01-010)
\$278,955

1994-1995

Mentor - Andre' Fredieu
Project Title: TGF- β 2 Antisense and Cytokine Gene Therapy of Rat Gliomas
Howard Hughes Fellowship
\$24,500 1995-1996

Mentor - Gabriel Hunt
Project Title: Leukotrienes and the Blood-Brain Barrier
Howard Hughes Fellowship
\$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
Alkermes, Inc. (ALK01-024)
\$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
Jonsson Comprehensive Cancer Center Foundation
\$30,000 1996-1997

Principal Investigator
Enhancement of Anti-Tumor Immunity for Treatment of Malignant Gliomas
Jonsson Comprehensive Cancer Center
\$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
Neurogen Corporation
\$98,500 2000-2001
- Faculty Sponsor- (John Yu)
Active Immunotherapy for Glioblastoma
National Institute of Health (1K23NS02232-01)
\$608,445 2000-2005
- Principal Investigator
RO1: Biochemical Control of BBB in Abnormal Brain Capillaries.
NINDS National Institute of Health (Jacob Javits Award)(1R01NS32103)
\$2,812,500 2000-2007

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 (1R01NSO46388-01)</i> \$1,308,152	2003 – 2007
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 <i>Pending Completion of Phase 1</i>

Principal Investigator Brain Tumors and Air Pollution <i>South Coast Air Quality Management District</i> \$1,500,000	2005-2007
Co-Principal Investigator Tumor drug delivery systems based on polymalic acid National Institutes of Health (<i>Pending Receipt of R01 number</i>) \$1,950,000	2006-2011

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 C₄ 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
15. **Black KL**, Hoff JT: Leukotrienes and blood-brain barrier permeability. J Cerebr Blood a. Flow Metabol (Suppl 1). 5:S263-S264, 1985
16. **Black KL**, Chandler, WF, Abrams GD: Intra-arterial vein graft-experimental technique to Treat inaccessible carotid aneurysms of the cranial base. Surg Forum. 36:485-487, 1985
17. **Black KL**, Hoff JT, McGillicuddy JE, Gebarski SS: Increased leukotriene C₄ and vasogenic Edema surrounding brain tumors in humans. Ann Neurol. 19:592-595, 1986
18. Bucci MN, **Black KL**, Venes JL, Latack JT: Magnetic resonance imaging in the evaluation of low attenuation lesions on computed tomography. Neurosurg .18:625-627, 1986
19. Venes JL, **Black KL**, Latack JT: Preoperative evaluation and surgical management of the Arnold Chiari II malformation. J Neurosurg. 64:363-370, 1986
20. Waters DC, Hoff JT, **Black KL**: Effect of parenteral nutrition on cold-induced vasogenic edema in cats. J Neurosurg. 64:460-465, 1986
21. Chin LS, **Black KL**, Hoff JT: Multiple thoracic disc herniations Case Report. J Neurosurg. 66:290-292, 1987
22. **Black KL**, Betz AL, Ar DB: Leukotriene C₄ receptors in isolated brain capillaries. Adv Prostaglandin Thromboxane Leukotriene Res. 17A:508-511, 1987
23. **Black KL**, Rubin JM, Chandler WF, DiPietro MA, McGillicuddy JE: Intraoperative color-flow Doppler imaging of AVM's and aneurysms. J Neurosurg. 68:635-639, 1988
24. Bucci MN, **Black KL**, Hoff JT: The effect of ischemic stroke on arachidonic acid metabolites. Surg Forum 39:491-493, 1988
25. Mazziotta JC, Jordan SE, Lones M, **Black KL**, Selch MT, Pignatti G, Vinters HV: Seizures and hemiparesis in a young woman 24 years after treatment of astrocytoma. West J Med. 150:180-86, 1989
26. **Black KL**, Ikezaki K, Toga AW: Imaging of brain tumors using peripheral benzodiazepine receptor ligands. J Neurosurg. 71:113-118, 1989 (**selected as cover**)

illustration)

27. Papadopoulos SM, **Black KL**, Hoff JT: Cerebral edema induced by arachidonic acid: role of leukocytes and 5-lipoxygenase products. Neurosurg. 25:369-372, 1989
28. **Black KL**, Hawkins RA, Kim KT, Becker DP, Lerner C, Marciano D: Use of Thallium-201 (SPECT) to quantitate malignancy grade of gliomas. J Neurosurg. 71:342-346, 1989
29. King WA, **Black KL**, Ikezaki K, Becker DP, Toga AW: Intracarotid infusion of leukotriene C₄ increases blood-tumor barrier permeability in experimental rat brain tumors. Surg Forum 40:490-493, 1989
30. Rubin JM, Harfield MK, Chandler WF, **Black KL**, DiPietro MA. Intracerebral arteriovenous malformations: intraoperative color Doppler flow imaging. Radiology. 170: 219:222, 1989
31. **Black KL**, Ikezaki K, Smith M, Santori E, Becker DP: Utility of peripheral benzodiazepines as a specific ligand for brain tumors. Neurosurg 24:635, 1989
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171. Liu G, Ying H, Zeng G, Wheeler CJ, **Black KL**, Yu JS: HER-2, gp100 and MAGE-1 are expressed in human glioblastoma and recognized by cytotoxic T cells. Cancer Res. 64:4980-4986, 2004.
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173. Wheeler C, Yu J, **Black KL**: Cellular Immunity in the Treatment of Brain Tumors. Clin Neurosurg. 51:132-139, 2004.
174. Marcu L, Jo JA, Butte PV, Yong WH, Pikul BP, **Black KL**, Thompson RC: Fluorescence Lifetime Spectroscopy of Glioblastoma Multiforme. Photo-Chemistry and Photo-Biology. 80:98-103, 2004.
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182. Wheeler CJ, **Black KL**. Dendritic Cell Vaccines and Immunity in Glioma Patients. Frontiers in Bioscience 10:2861-2881, 2005.
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185. Zhang X, **Black KL**, Ong JM, Bogler O, Zhai Y, Wheeler CJ: T Cell activity in Glioma Chemosensitiveness and genetics. Gene Ther Mol Biol 9:401-416, 2005.
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187. Badruddoja AM, **Black KL**. Improving the delivery of therapeutic agents to CNS Neoplasms: A Clinical Review. Frontiers in Bioscience 11:1466-78,2006
188. Ljubimova JL, **Black KL**. Changes in Laminin Isoforms Associated with Brain Tumor Invasion and Angiogenesis. Frontiers in Bioscience 11:81-8, 2006
189. Yong WH, Butte PV, Pikul BK, Jo JA, Fang Q, Papaioannou T, **Black KL**, Marcu L. Distinction of Brain Tissue, Low Grade and High Grade Glioma with Time-Resolved Fluorescence Spectroscopy. Frontiers in Bioscience 11, 1255-1263, 2006
190. Akasaki K, Liu G, Matundan HM, Ng H, Yuan XP, Zeng Z, **Black KL**, Yu JS: A Peroxisome Proliferator-activated Receptor- γ (PPAR γ) agonist, Troglitazone, facilitates caspase-8 and -9 activities by increasing the enzymatic activity of Protein Tyrosine Phosphatase-1B on human glioma cells. J of Biological Chemistry 281(10):6165-74,2006
191. Yuan X, Hu J, Belladonna M, **Black KL**, Yu JS: IL-23-expressing bone marrow-derived neural stem-like cells exhibit antitumor activity against intracranial glioma. Cancer Res 66(5):2630-8,2006 **(selected as feature article)**

192. Lee BS, Fujita M, Khazenzon NM, Wawrowksy KA, Wachsmann-Hogiu, Farkas D, **Black KL**, Ljubimova JY, Holler E: Polycefin, a New Prototype of Multifunctional Nanoconjugate Based on Poly(β -L-malic acid) for Drug Delivery. Bioconjugate Chem 17(2):317-326, 2006 (**selected as cover article**)
193. Fujita F, Khazenzon NM, Ljubimov AV, Lee BS, Virtanen I, Holler E, **Black KL**, Ljubimova JY: Inhibition of laminin-8 in vivo using a novel poly(malic acid)-based carrier reduces glioma angiogenesis. Angiogenesis (Advance Online Publication) November 2006; doi: 10.1007/s10456-006-9046-9
194. Liu G, Yuan X, Zeng Z, Tunici P, Ng H, Abdulkadir R, Lu L, Morris-Irvin D, **Black KL**, Yu JS: Analysis of Gene Expression and Chemoresistance of CD133+ Cancer Stem Cells in Glioblastoma. Molecular Cancer 5(1):67, 2006.

SCIENTIFIC PAPERS (In Press):

1. Yuan XP, Hu J, Belladonna ML, Ong JM, Wachsmann-Hogiu S, Farkas DL, **Black KL**, Yu JS: Induction of potent antitumor immunity by intratumoral injection of IL-23 transduced dendritic cells. Cancer Res (in press)
2. Zeng Z, Liu G, Yuan X, Zeng XH, Xeng XO, Ng H, Chen H, Jiang TX, Akasahi Y, Kessey K, **Black KL** and Yu JS: Manipulation of proliferation and differentiation of human bone marrow derived neural stem cells in vitro and in vivo. J of Neurosci Res (in press)
3. Yin D, Desmond J, Ong J, Kawamata N, **Black KL**, Koeffler HP: Suberoylanilide Hydroxamic Acid (SAHA), a Histone Deacetylase Inhibitor: Effects on Gene Expression and Growth of Glioma Cells in vitro and vivo. Clin Can Research (in press)

SCIENTIFIC PAPERS (Submitted):

1. Cole MA, Pikul BK, **Black KL**, Bookheimer SY: Contralateral Functional Reorganization of the Speech Supplementary Motor Area Following Neurosurgical Tumor Resection. Neurocase (submitted 5/2006)
2. Yin D, Kawabata H, Tcherniamtchouk O, **Black KL**, Koeffler HP: Expression of EPO and EPOR in Brain Tumors. Clin Can Research (submitted 6/2006)
3. Ghods-Jourabchi A, Liu G, Morris-Irvin D, Tunici P, Yuan X, SeWachsmann-Hogiu S, Konda B, **Black KL**, Yu JS: Spheres Isolated from 9L Gliosarcoma Rat Cell Line Possess Chemoresistant and Aggressive Cancer Stem-Like Cells. Stem Cells (submitted 10/2006)

4. Zhang X, **Black KL**, Zhai Y, Das A, Seksenyan A, Morris-Irvin D, Wheeler CJ: CD8+ T cells control physiological glioma invasiveness. Science (submitted 9/2006)

BOOK CHAPTERS / INVITED ARTICLES:

1. **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, in Schror K (ed): Prostaglandins and Other Ecosanoids in the Cardiovascular System. Proc 2nd Int Symp, Nurnberg -Furth 1984, Basel: Karger. pp 213-216, 1985
2. **Black KL**, Hoff JT: Modification of arachidonic acid metabolism in Weinstein, P and Faden, A (eds): Protection of the brain from ischemia. Current Neurosurgical Practice. William and Wilkins, pp 273-278, 1990
3. **Black KL**, Becker DP: Brain Tumors, in Pearlman AL, Collins RC (eds). Neurobiology of Disease. Oxford University Press, New York, pp 339-416, 1990
4. Batzdorf U, **Black KL**, Selch MT: Brain Tumors, Haskell CM (ed.): Cancer Treatment. WB Saunders, Third Edition, pp 436-468, 1990
5. **Black KL**, King W, Ikezaki K: Selective opening of the blood-tumor barrier by intracarotid infusion of leukotriene C₄. In Brain Edema VIII, Reulen HJ, Baethmann A, Marmarou A, Fenstermacher J, Spatz, in (eds) Springer-Verlag 140-141, 1990
6. King WA, **Black KL**, Ikezaki K, Conklins, Becker DP: Novel 21-Aminosteroids prevent tumor associated neurological dysfunction. In Brain Edema VIII, Reulen HJ, Baethmann A, Marmarou A, Fenstermacher J, Spatz, in (eds) Springer-Verlag 160-162, 1990
7. King WA, **Black KL**: Peritumoral edema in association with meningiomas, in Schmidek HH (ed): Meningiomas. W. B. Saunders, Philadelphia, pp 56-62, 1991
8. Shiraishi T, Tabuchi K, Mineta T, Momozuki N, Takagi M, **Black KL**: Nuclear organizer regions in cultured brain tumor cells. Tabuchi K (ed.): Proceedings of the 8th Nikko Brain Tumor Conference. Springer-Verlag, Tokyo, 1991
9. Ikezaki K, **Black KL**, Tabuchi K: Peripheral-type benzodiazepine receptors in brain tumors: in vitro binding characteristics and implication for new image analysis. Tabuchi K (ed): Biological Aspects of Brain Tumors. Springer-Verlag, Tokyo, 1991
10. Ciacci JD, **Black KL**: Advances in imaging technologies. Critical Reviews in Neurosurg. 3:88-92, 1993

11. **Black K**: Selective opening of blood-brain barrier for drug delivery to brain tumors. Hadley M (ed): Perspectives in Neurological Surg. Quality Medical, Missouri, 4:97-104, 1993
12. Anzai Y, DeSalles A, **Black KL**, Farahani K, Sinha S, Castro D, Fried I, Lufkin R: Stereotaxis and interventional magnetic resonance imaging, DeSalles AF and Goetsch S (ed): Stereotactic Surg and Radiosurg. Medical Physics Publishing, WI, pp 47-59, 1993
13. Ciacci J, **Black KL**, Behnke E, DeSalles, AAF: Frameless stereotactic craniotomy, DeSalles AF and Goetsch S (ed): Stereotactic Surg and Radiosurg. Medical Physics Publishing, WI, pp 85-94, 1993
14. Badie B, **Black KL**: Immunotherapy of primary malignant brain tumors. Critical Reviews in Neurosurg. 4:89-94, 1994
15. Cloughesy T, **Black KL**: Diagnosis and Management of brainstem gliomas. Neurosurg Quarterly. Raven Press 4:174-186, 1994
16. DeSalles AAF, Bajada C, Goetsch S, King WA, Becker DP, **Black KL**, Selch M, Holly FE: Radiosurgery Planning for Skull Base Tumors. Samii M (ed): Skull Base Surg. Basel, Karger, 33-37, 1994
17. **Black KL**: Primary Brain Tumors: Aspects of imaging and functional localization, Wilkens RH and Rengachary SS (eds): Neurosurg. 2nd Edition McGraw Publishing, 1:729-734, 1995
18. **Black KL**, Gruber ML, Selch MT: Brain. Haskell CM (ed.): Cancer Treatment. WB Saunders, Fourth Edition, pp 777-801, 1995
19. **Black KL**: The blood-brain barrier. Youmans JR (ed): Neurological Surg. WB Saunders, Fourth Edition, Vol. 1, pp 482-490, 1995
20. Huang AY, Lufkin RB, Anzai Y, Hamilton DR, DeSalles AAF, Sinha S, Farahani K, Behnke E, **Black KL**: Interventional MRI for neurosurgery. Perspectives in Neurological Surg. 6(1):44-59, 1995
21. **Black KL**, Ciacci JD: Clinical manifestations of brain tumors. Hospital Medicine. pp 33-40, April, 1996
22. Liao LM, **Black KL**: Gene therapy for malignant gliomas. Critical Reviews in Neurosurg. 6(3); 178-187, 1996
23. Anzai Y, Lufkin R, De Salles A, Farahani K, Huang A, Sinha S, **Black KL**: MR-guided radiofrequency ablation of brain tumors. Interventional MR Techniques and Clin

- Experience. Martin Dunitz Publishers, 20;255-272, 1998
24. Farahani K, **Black KL**, De Salles AAF, Anzai Y, Lufkin RB: Radiofrequency ablation in Jolesz and Young (eds.): Interventional MR Techniques and Clin Experience. Martin Dunitz Publishers 12:153-157, 1998
 25. Rubino G, Nelson G, **Black KL**: Radiofrequency ablation in the treatment of cerebral metastases: Advanced Techniques in Central Nervous System Metastases in Maciunas RJ (ed): Neurosurgical Topics. AANS, Park Ridge, IL , pgs. 165-175, 1998
 26. **Black KL**: The Use of Chemotherapeutic Implants in the Treatment of Recurrent Gliomas, in James W, Brem H, Ewend M, Friedman H, Gilbert M, Shaw E (eds.): Localized Therapy in the Treatment of Brain Cancer. Postgraduate Institute for Medicine Publisher, pgs. 10-11, 1999
 27. **Black KL**: The Front-Line The Use of Chemotherapeutic Implants in the Initial Treatment of Malignant Gliomas, in James W, Brem H, Ewend M, Friedman H, Gilbert M, Shaw E (eds.): Localized Therapy in the Treatment of Brain Cancer. Postgraduate Institute for Medicine Publisher, pgs. 12-13, 1999
 28. **Black KL** and Pikul BK: Gliomas-past, present and future. [Review] [20 Refs] Clin Neurosurg. 45: 160-3, 1999
 29. Asotra K, **Black KL**: Blood-Brain Barrier As A Portal For Drug Delivery. In Sinha K, Chandra P, (eds): Advances in Clin Neurosciences. 10:(2000) 323-339
 30. **Black KL**: Treating Malignant Brain Tumors. Coping. January/February 2003, p. 36-37.
 31. Ehtesham M, Kabos P, **Black KL**, Yu JS: Use of neural stem cells as therapeutic vehicles for the treatment of malignant glioma. Expert Review of Neurotherapeutics.3(6):883-895,2003
 32. Yu JS, Ehtesham M, **Black KL**: Immunotherapy for malignant gliomas. Black PM and Loeffler JS (eds). Cancer of the Nervous System. 2nd Edition. Lippincott, Williams & Wilkins, New York, 15:209-224, 2004
 33. Akasaki Y, **Black KL**, Yu JS. Dendritic cell-based immunotherapy for malignant gliomas. Expert Review of Neurotherapeutics. 5(4):497-508, 2005
 34. Chu RM, **Black KL**: Current Surgical Management of High Grade Gliomas, in Schmidek and Sweet's Operative Neurosurgical Techniques: Indication, Methods and Results, 5th ed. Elsevier, New York, 47:665-670, 2006.
 35. Liu G, **Black KL**, Yu JS. Sensitization of malignant glioma to chemotherapy through dendritic cell vaccination. Expert Review of Vaccines. 5(2): 233-247, 2006

36. Wheeler CJ, **Black KL**: Vaccines and Beneficial Immunity in Glioma Patients, in Gene Therapy for Neurological Disorders. Castro MG & Lowenstein PR (eds). Taylor & Francis Group LLC Informa, New York, First Edition, pgs. 265-292, 2006.

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: 23rd 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: 23rd 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.*
 - *Immune 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: 29th Annual Institute and Conference. National Black Nurses Association, Los Angeles, CA, August 9, 2001
31. Keynote Speaker: SCROS. 54th 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 (ABC²) 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 18th Annual Symposium on Career Opportunities in Biomedical Sciences, Atlanta, Georgia, April 7-9, 2004
41. Keynote Speaker: Geisinger 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: 19th 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: 97th Annual American Association of Cancer Research (AACR) Meeting, Washington DC, April 3, 2006
 - *Therapeutic Drug Delivery*

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. 12th 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 C₄ 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 C₆ glioma. Neurosci ABS 1444:167, 1988
30. **Black KL**, Ikezaki K, Becker DP: Imaging of C₆ 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

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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
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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
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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 C₄ 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

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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 C₄. 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 C₄. 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 C₄. 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- β 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
122. Badie B, Hunt K, Economou J, **Black KL**: Stereotactic delivery of a recombinant adenovirus into a C-6 glioma cell line in a rat brain tumor model. Cancer Gene Therapy Conference, San Diego, CA. November, 1993

123. Farahani K, Yoon HC, Kuniyoshi J, Saxton RE, Sinha S, Anzai Y, De Salles AAF, **Black KL**: Methemoglobin formation and T1 shortening in thermal coagulation. SMR Book of Abstracts Berkeley, CA pp 1576, 1994
124. Farahani K, Lufkin RB, Anzai Y, De Salles AAF, **Black KL**: MRI-guided thermal ablation of brain tissue. Med Phys 21(6):910, 1994
125. Anzai Y, **Black KL**, De Salles AAF, Farahani K, Sinha S, Lufkin RB: MR-guided stereotaxic RF brain tumor ablation: Analysis of clinical outcome based on over a year follow-up. Radiology 193(P):461, 1994
126. Hamilton DR, Anzai Y, Huang A, Farahani K, **Black KL**, Lufkin RB: Overview of various interventional MRI instruments. Radiology 193(P):460, 1994
127. Farahani K, Carangi C, Mischel P, Anzai Y, **Black KL**, Lufkin RB: Dynamic magnetic resonance imaging of hyperacute thermal lesion development in brain. Radiology 193(P):330, 1994
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
142. Farahani K, Atkinson D, **Black KL**, Lufkin RB: MRI of interstitial thermal lesions in the brain at 0.2 and 1.5 tesla. Radiology 197(P):423, 1995
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

148. Nakano S, Inamura T, Nomura T, Matsukado K, Bartus R, **Black KL**: Carboplatin transport to brain tumors enhanced by intracarotid infusion of bradykinin analog, RMP-7. 63rd Annual Meeting of the American Association of Neurological Surgeons Orlando, FL, April 1995
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
152. Hayward N, Elliott P, Huff M, Nagle T, Schutz A, Matsukado K, **Black KL**, Bartus RT: RMP-7 selectively increases uptake of carboplatin into rat brain tumors and surrounding brain. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995
153. Bartus RT, Elliott P, Hayward N, Matsukado K, **Black KL**: Bradykinin permeation of the BBB: Evidence for a sensitive, auto-regulated, receptor-mediated system. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995
154. Elliott P, Hayward N, Huff M, Nagle T, Dean R, Blunt D, Kim C, Oyler C, Schutz A, **Black KL**, Bartus R: Intravenous administration of RMP-7 selectively increases uptake of carboplatin into rat brain tumors. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995
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
156. Bookheimer SY, Cohen M, Dapretto M, Fried I, Shewmon A, **Black KL**, Engel J, Mazziotta J: Functional MRI in surgical planning. Society of Neuroscience 1995 Annual Meeting San Diego, CA, November 1995
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
161. Matsukado K, Inamura T, Nakano S, Fukui M, **Black KL**: Enhanced tumor uptake of carboplatin and survival in glioma-bearing rats by intracarotid infusion of bradykinin analog RMP-7. 64th Annual Meeting of the American Association of Neurological Surgeons Minneapolis, MN, April-May, 1996
162. Friedman WA, Sundaresan N, **Black KL**, Ross DA, Hall Walter A: Management of metastatic disease of the central nervous system. 64th Annual Meeting of the American Association of Neurological Surgeons Minneapolis, MN, April-May, 1996
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
165. Nakano S, Matsukado K, Pardridge WM, **Black KL**: Cytokine blood-to-tumor transport and biological effects enhanced by intracarotid infusion of the bradykinin analog RMP-7. 64th Annual Meeting of the American Association of Neurological Surgeons Minneapolis, MN, April-May, 1996
166. Matsukado K, Nakano S, **Black KL**: Enhanced tumor uptake of carboplatin in dexamethasone-treated glioma-bearing rats by intracarotid infusion of RMP-7. 64th Annual Meeting of the American Association of Neurological Surgeons Minneapolis, MN, April-May, 1996
167. Sloan A, Bandong J, Hedricks L, Vinters H, Bredesen D, **Black KL**: BCL-2 expression as a prognostic indicator in low-grade astrocytomas: induced BCL-2 expression inhibits apoptotic responses to chemotherapy and radiation, and is associated with poor prognosis. 46th Annual Meeting of the Congress of Neurological Surgeons Montreal, Quebec, September 28-October 3, 1996

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