

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

April 30, 2019

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
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	1997-2006

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

Director, Johnnie L. Cochran Jr. Brain Tumor Center
Department of Neurosurgery
Cedars-Sinai Medical Center
Los Angeles, CA 2007-Present

OTHERS:

Founder and Chairman of the Scientific Advisory Board (SAB)
Immunocellular Therapeutics 2006 - 2012

Founder, Neurovision Imaging 2010

Founder, Black Brain Health 2012

Co-Founder, Teal Light Surgical 2013 -2017

President and Founder, Black Light Surgical 2015

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 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 Women of Pasadena	2004
Minority Access, Inc. 2004 National Role Models – Innovator Award	2004
Minorities in Business 9 th 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
Black Entertainment Television (BET) Honors Public Service Award	2010
Black Heritage Award Health Power for Minorities Website	2010
Black Engineer of the Year Award Pioneer Award	2010
NAACP Image Award Nominee for Outstanding Literary Work – Non-Fiction for "Brain Surgeon: A Doctor's Inspiring Encounters with Mortality and Miracles" by Dr. Keith L. Black	2010
NAACP Youth Council – Los Angeles Chapter 2010 Men of Valor	2010
Atlanta Post Top 21 Black Doctors in America	2011
National Urban League Whitney M. Young, Jr. Living Legend Award	2011

South Coast Air Quality Management District Air Quality and Transportation Regional Conference Honoree	2011
Cedars-Sinai Alumni Association Howard I. Wilner, M.D. Alumnus of the Year Award	2011
Hope of Los Angeles Award City of Los Angeles	2012
Patients' Choice Award	2012-Present
California Assembly Black History Month Honoree	2015
America's Best Physicians	2015-Present
Cover – Savoy Magazine 2017 Top Influential Black Doctors	2017
Healing and Hope Award Rhonda's Kiss Foundation - Helping Cancer Patients in Need	2017
Top Blacks in Healthcare	2018
Cedars-Sinai Pioneer in Medicine Award	2018
South Coast Air Quality Management District Robert Zweig MD Memorial Award	2018

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
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	2008-2013
Cedars-Sinai Medical Center Complementary Medicine Task Force	2010-2013
Cedars-Sinai Medical Center Chair of Chairs	2011 - 2012
Cedars-Sinai Medical Center Medical Policy Committee	2011, 2012
Cedars-Sinai Medical Center Department of Medicine Search Committee for Chair	2011
Cedars-Sinai Medical Center Samuel Oschin Comprehensive Cancer Institute Core Member	2011 - 2013
Cedars-Sinai Medical Center Samuel Oschin Comprehensive Cancer Institute Executive Committee Member	2013
Cedars-Sinai Medical Center Department of Pathology Search Committee for Chair	2015
Cedars-Sinai Medical Center Department of Orthopedic Surgery Chair - Search Committee for Chair	2015
Cedars-Sinai Medical Center Department of Anesthesia Chair - Search Committee for Chair	2018

Cedars-Sinai Medical Center Samuel Oschin Comprehensive Cancer Institute
Search Committee for Directors, Division of Medical Oncology and Hematology
and Cell Therapy 2018

POST GRADUATE COURSES:

Director -- Advances in Brain Tumor Management
Marina Del Rey, CA 1993
November 19 and 20

Co-Director -- Interventional MRI
Marina Del Rey, CA 1994
August 13 and 14,

Director -- Advances in Brain Tumor Management
Las Vegas, NV 1995
February 17 and 18

Director – Clinical Neurosciences Lecture Series
Cedars-Sinai Medical Center 1997 - 2000
Los Angeles, CA

Director – Management of Brain Tumors
Cedars-Sinai Medical Center 2000
Los Angeles, CA
February 2

Director – Management of Brain Tumors 2000
Las Vegas Hilton
Las Vegas, NV
June 10

Co-Director – Medical and Surgical Advances in Neurology and Neurosurgery
Ritz Carlton Marina Del Rey 2008
Marina Del Rey, CA
February 16-17

Co-Director – Medical and Surgical Advances in Neurology and Neurosurgery
Ritz Carlton Marina Del Rey 2009
Marina Del Rey, CA
February 14-15

Co-Director – Advances in Neurology and Neurosurgery 2010
Ritz Carlton Marina Del Rey
Marina Del Rey, CA
February 20-21

Co-Director – Advances in Neurology and Neurosurgery Bakersfield, CA <i>November 3</i>	2010
Co-Director – Advances in Neurology and Neurosurgery Ritz Carlton Marina Del Rey Marina Del Rey, CA <i>February 26-27</i>	2011
Co-Director - Nanomedicine and Drug Delivery Research Conference Cedars-Sinai Medical Center Los Angeles, CA <i>March 4-5</i>	2011
Co-Director - 1st Annual Stem Cell Therapies for Neurological Disorders: Overcoming the Current Barriers to Clinical Translation Cedars-Sinai Medical Center <i>April 30</i>	2011
Co-Director – Advances in Neurology and Neurosurgery Bakersfield, CA <i>July 14</i>	2012
Co-Director – Advances in Neurology and Neurosurgery Santa Barbara, CA <i>April 20</i>	2013
Co-Director - 2nd Nanomedicine for Imaging and Treatment Conference Cedars-Sinai Medical Center Los Angeles, CA <i>March 15-16</i>	2013
Co-Director – Advances in Neurology and Neurosurgery Bakersfield, CA <i>June 7</i>	2014
Co-Director – Advances in Neurology and Neurosurgery Santa Barbara, CA <i>November 22</i>	2014
Co-Director – Advances in Neurology and Neurosurgery Westlake Village, CA <i>February 21</i>	2015
Co-Director – 3rd Nanomedicine for Imaging and Treatment Conference Cedars-Sinai Medical Center Los Angeles, CA <i>March 13-14</i>	2015

Co-Director – Advances in Neurology and Neurosurgery
Bakersfield, CA
May 30 2015

Co-Director – Advances in Neurology and Neurosurgery
Santa Barbara, CA
November 14 2015

Co-Director – Advances in Neurology and Neurosurgery
Bakersfield, CA
March 12 2016

Co-Director – Advances in Neurosciences and Pituitary Diseases
Las Vegas, NV
October 8-9 2016

Co-Director – Advances in Neurology and Neurosurgery
Santa Barbara, CA
November 19 2016

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, and 2009
National Institutes of Health NIH Director's Pioneer Award Panel Interviewer	2010, 2011, 2014
<u>OTHER SERVICES</u>	
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
Board of Directors of the Los Angeles World Affairs Council	2009-2010
Faculty of 1000 member	2009 - 2013
Chair, Fastercures Glioblastoma Multiforme (GBM) Research Advisory Board	2012
National Football League Unaffiliated Neuro-Trauma Consultant (NFL UNC) Cedars-Sinai Group Team Lead	2016 – Present

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	1995-2009
<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	2001-2002
<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
<i>International Brain Mapping & Intraoperative Surgical Planning Society</i> – Editorial Board	2009 – Present
<i>Public Library of Science (PLoS)</i> - Editorial Board	2010 – Present
dailyRx.com– Editorial Panel Contributing Expert	2012

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
Wes Phillips (Washington Gifted Scholar in Neuroscience)	2009
Joseph McAbee (Washington Gifted Scholar in Neuroscience)	2010
Daniel Nwachokor (Washington Gifted Scholar in Neuroscience)	2010
George Hanna (Washington Gifted Scholar in Neuroscience)	2010
Kwame Firemong (Washington Gifted Scholar in Neuroscience)	2010
Breanna Perlmutter (Washington Gifted Scholar in Neuroscience)	2011
Tiffany Hood (Washington Gifted Scholar in Neuroscience)	2011
Robert Reed (Washington Gifted Scholar in Neuroscience)	2011
Michelle Paff (Washington Gifted Scholar in Neuroscience)	2011

PATENTS AWARDED:

Method for selective opening of abnormal brain tissue capillaries Patent No. US 5,434,137	1995
Method for selective opening of abnormal brain tissue capillaries Patent No. US 5,527,778	1996
Enhanced opening of abnormal brain tissue capillaries Patent No. US 6,043,223	2000
Composition comprising Bradykinin for selective opening of abnormal brain tissue capillaries Patent No. EP 0698203	2003
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. US 6,774,119	2004
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. US 6,838,279	2005
Method for using potassium channel agonists for delivering a medicant to an abnormal brain region and/or a malignant tumor Patent No. US 7,018,979	2006
Method for inducing selective cell death of malignant cells by activation of calcium-activate potassium channels (K.sub.Ca) Patent No. US 7,211,561	2007
Antisense inhibition of laminin-8 expression to inhibit human gliomas Patent No. US 7,547,511	2009
Use of Minoxidil Sulfate as an Anti-Tumor Drug Patent No. US 7,705,010	2010
Polymalic acid-based multi-functional drug delivery system Patent No. US 7,935,677 , 8,911,717 ; 8,562,964	2011, 2014, 2013
System and Method for Treatment of Cancer, Including Cancers of the Central Nervous System Patent No. US 7,939,090	2011
Cancer Vaccines and Vaccination Methods Patent Nos. US 8,097,256 , 8,871,211 , US 9,095,538 , 9,433,667	2012, 2014, 2015, 2016

Poly(Beta Malic Acid) with Pendant Leu Leu Leu Tripeptide for Effective Cytoplasmic Drug Delivery Patent No. US 8,309,614 , 8,795,648	2012, 2014
Drug Delivery of Temozolomide for Systemic Based Treatment of Cancer Patent No. US 8,785,371 ; 9,320,807 ; 9,629,919 , 9,827,325	2014, 2016, 2017
Use of Toll Like Receptor Ligands as Adjuvants to Vaccination Therapy for Brain Tumors Patent No. US 8,728,465 , 9,764,014	2014, 2017
CD133 epitopes Patent No. US 9,068,020 ; 9,382,308 ;	2015, 2016
Polymalic Acid-Based Nanobiopolymer Compositions Patent No. US 9,623,041	2017
<i>Optical method for detecting Alzheimer's disease by systemic administration of curcumin</i> Patent No. US 9,839,699	2017

PATENTS PENDING:

Methods of Using PDE5 Inhibitors to Enhance the Permeability of the Blood-Tumor Barrier US 60/976,161 (Filed September 28, 2007)	<i>Pending</i>
Method of Using Tumor Cell Debris to Reduce Brain Tumor Recurrence of Growth US 61/140,787 (Filed December 24, 2008), US 61/145,492 (Filed January 16, 2009)	<i>Pending</i>
Cellular Immune Senescence Phenotype to Assess Alzheimer's Disease Risk and Diagnosis And Experimental Model for Spontaneous Alzheimer's disease US 61/597,337 (Filed February 10, 2012)	<i>Pending</i>
Polymalic Acid Based Nanoconjugates for Imaging PCT/US2012/032573 (Filed June 4, 2012)	<i>Pending</i>
Methods and Systems for Performing Tissue Classification Using Multi-Channel TR-LIFS and Multivariate Analysis US 62/248,937 (Filed October 30, 2015)	<i>Pending</i>
Polymalic Acid Based Immuno-Nanoconjugates and uses thereof US 62/303,845 (Filed March 4, 2016)	<i>Pending</i>
Methods for Treating Brain Insulin Resistance US 15/332,880 (Filed October 24, 2016)	<i>Pending</i>
Methods for Treating or Preventing Alzheimer's Disease and Associated Conditions PCT/US2017/033875 (Filed May 22, 2017)	<i>Pending</i>
Systems, Devices, and Methods for Time-Resolved Fluorescent Spectroscopy PCT US/2017/025451 (Filed May 23, 2017)	<i>Pending</i>

Visual Stimuli Maze Test for detecting Visual Abnormalities in Prodromal Alzheimer's Disease and in Alzheimer's Disease
PCT/US2017/035835 (Filed June 2, 2017) *Pending*

Tumor Targeting Nanoagent for Imaging and Fluorescent Guided Resection of Tumors
US 62/557,380 (Filed September 12, 2017) *Pending*

Methods and Compositions for Efficient Delivery Through Multiple Bio Barriers
US 62/566,813 (Filed October 2, 2017) *Pending*

Nanoparticles for Boron Neutron Capture Therapy and for Diagnosing, Detecting, and Treating Cancer
PCT/US2019/028179 (Filed: April 18, 2019) *Pending*

Targeted Nanoparticles for Diagnosing, Detecting and Treating Cancer
PCT/US2019/028196 (Filed: April 18, 2019) *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

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

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 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 Liao, 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 <i>Joseph Drown Foundation</i> \$68,000	1998-1999
Principal Investigator Thymus Function and Relevance to T-Cell Signaling Defects in Intracranial Tumor Bearing Animals <i>Joseph Drown Foundation</i> \$91,000	1999-2000
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 <i>Rhone-Poulenc Rorer Research Development (RPR 132596 T/301)</i> \$79,359	1998-2000
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 <i>Immune Response, Inc.</i> \$700,000	1999-2001
Mentor – Frank Acosta Biochemical Modulation of the Blood-Brain Barrier <i>Howard Hughes Fellowship</i> \$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)	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 poly(malic acid) <i>National Institutes of Health (1R01CA123495)</i> \$1,950,000	2006-2012
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
Co-Investigator Nanoconjugate based on poly(malic acid) for brain tumor treatment <i>NIH/NCI (U01CA151815)</i> \$2,643,688	2010-2016
Principal Investigator Dendritic Cell Based Immunotherapy Proof of Concept Biotechnology Research & Development Award: Grade 4 Type Glioblastomas <i>FasterCures/Milken Foundation</i> \$5,000,000	2012-2016
Principal Investigator Chronic Exposure of Mice to Ambient Particles to Study Cancer-related Stem Cell Activation in the brain <i>Brain and Lung Tumor Air Pollution Foundation</i> \$1,000,000	2013-2016
Co-Investigator Differential Nano MRI imaging for brain tumor metastases diagnosis and treatment monitoring <i>NIH/NCI (1R01CA188743-01A1)</i> \$2,523,490	2015 –2020
Co-Investigator Nanoconjugate delivery of proliferation and checkpoint inhibitors to treat glial tumors <i>NIH/NCI R01CA206220-01</i> \$3,353,360	2016-2021
Co-Investigator Glioma image-guided surgery and treatment <i>NIH/NCI, 1R01CA209921-01</i> \$2,610,353	2016-2020

Principal Investigator

Role of particle-induced inflammation on progression of brain tumors and neurodegenerative brain diseases 2017-2018

Brain and Lung Tumor Air Pollution Foundation
\$586,769

Co-Investigator

Nano immunoconjugates to treat primary and metastatic HER2 positive breast cancer

NIH/NCI, 1R01CA230858-01
\$3,151,000

2018-2023

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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
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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 Flow Metabol (Suppl 1). 5:S263-S264, 1985
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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
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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**)
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314. Edwards L, Kim S, Madany M, Nuno M, Thomas T, Li A, Berel D, Lee BS, Liu M, **Black KL**, Fan X, Zhang W, Yu JS. ZEB1 is a transcription factor that is prognostic and predictive in diffuse gliomas. Frontiers Neurology 2019 Jan 17; doi: 10.3389/fneur.2018.01199.
315. Israel LL, Braubach O, Galstyan A, Chiechi A, Shatalova ES, Grodzinski Z, Ding H, **Black KL**, Ljubimova JY, Holler E. A Combination of Tri-Leucine and Angiopep-2 Drives a Poly-Anionic Polymalic Acid Nanodrug Platform Across the Blood-Brain Barrier. ACS Nano. 2019 Jan 11. doi: 10.1021/acsnano.8b06437.

316. Lahiri S, Regis GC, Koronyo Y, Fuchs DT, Sheyn J, Kim E, Mastali M, Van Eyk J, Rajput PS, Lyden PD, **Black KL**, Ely EW, Jones H, Koronyo-Hamaoui M. Acute neuropathological consequences of short-term mechanical ventilation in wild-type and Alzheimer's disease mice. Crit Care. 2019 Feb 22;23(1):63. doi: 10.1186/s13054-019-2356-2.
317. Do AS, Bannykh S, **Black KL**, Perry TG. Unusual Exophytic Appearance of Spinal Cord Subependymoma. World Neurosurgery. World Neurosurg. 2019 Apr 4. pii: S1878-8750(19)30951-9. doi: 10.1016/j.wneu.2019.03.270
318. Patil R, Galstyan A, Sun T, Shatalova ES, Butte P, Mamelak AN, Carico C, Kittle DS, Grodzinski ZB, Chichi A, Ding H, **Black KL**, Ljubimova JY, Holler E. Polymalic acid chlorotoxin nanoconjugate for near-infrared fluorescence guided resection of glioblastoma multiforme. Biomaterials. 2019 Jun; 206:146-159. doi: 10.1016/j.biomaterials.2019.03.029. Epub 2019 Mar 23

SCIENTIFIC PAPERS (In Press):

1. Patil CG, Walker D, Miller DM, Butte P, Morrison B, Kittle DS, Hansen SJ, Nufer KL, Byrnes-Blake KA, Yamada M, Lin LL, Pham K, Perry J, Parris-Novak J, Ishak L, Prow T, **Black KL**, Mamelak AN. Phase 1 Safety, PK, and Fluorescence Imaging Study of Tozuleristide (BLZ-100) in Adults with Newly Diagnosed or Recurrent Gliomas. Neurosurgery (in press Jan 2019).

SCIENTIFIC PAPERS (Submitted):

1. Doustar J, Regis GC, Torbati T, Sheyn J, Fuchs DT, Rentsendorj A, Shah PK, Gupta VK, **Black KL**, Mirzaei M, Koronyo Y, Koronyo-Hamaoui M. Retinal A β Pathology Predicts Its Cerebral Counterpart and Response to Immunotherapy in Old, Late-Stage Murine AD Models. Acta Neuropathol. (submitted Feb 2019)
2. Sarmiento JM, Vali S, Hu J, Suseela RP, Usmani S, Singh NK, Nuño M, Rudnick JD, Abbasi T, **Black KL**, Patil CG. Use of a Genomics Based Glioblastoma Computational Biology Model to Predict Temozolomide Response and Progression Free Survival. Molecular Cancer Therapeutics (submitted Mar 2019)
3. Galstyan A, Markman JL, Shatalova ES, Chiechi A, Korman AJ, Patil R, Klymyshyn D, Tourtellotte WG, Israel LL, Braubach O, Ljubimov VA, Mashouf LA, Ramesh A, Grodzinski ZB, Penichet ML, **Black KL**, Holler E, Sun T, Ding H, Ljubimov AV, Ljubimova JY. Nano immunoconjugates crossing blood-brain barrier activate local brain tumor immune system for glioma treatment. Nature Communications (submitted Mar 2019)
4. Koronyo-Hamaoui M, Sheyn J, Hayden EJ, Li S, Fuchs DT, Regis GC, Lopes DH, **Black KL**, Bernstein KE, Teplow DB, Fuchs S, Koronyo Y, Rentsendorj A. Targeted ACE Overexpression in Peripherally Derived Macrophages Alleviates Alzheimer's-Related Pathology and Cognition. Nature Neuroscience (submitted Apr 2019)

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 Eicosanoids 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. Sloan AE, **Black KL**, Becker DP: Lesions of the Sella Turcica in Donald PJ (ed): Surgery of the Skull Base. Lippincott-Raven Publishers, 555-582, 1998
27. **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
28. **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
29. **Black KL** and Pikul BK: Gliomas-past, present and future. [Review] [20 Refs] Clin Neurosurg. 45: 160-3, 1999
30. 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
31. **Black KL**: Treating Malignant Brain Tumors. Coping. January/February 2003, p. 36-37.
32. 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
33. 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
34. Akasaki Y, **Black KL**, Yu JS. Dendritic cell-based immunotherapy for malignant gliomas. Expert Review of Neurotherapeutics. 5(4):497-508, 2005
35. Chau 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.
36. 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
37. 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.
38. Yu JS, Luptrawan A, **Black KL**, Liu G. Mahaley Clinical Research Award: Chemosensitization of Glioma through Dendritic Cell vaccination. [Review] [57 Refs] Clin Neurosurgery. 53:345-51, 2006.

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.
41. Ding H, Inoue S, Ljubimov A, Patil R, Arias JP, Hu J, Konda B, Wawrowsky KA, Fujita M, Karabalin N, **Black KL**, Holler E, Ljubimova JY: Inhibition of brain tumor growth by intravenous poly (β -L-malic acid) nanobioconjugate with pH-dependent drug release. Nature Drug Discovery 467, 596–599, 2010 (*selected as feature review*).
42. Chu RM, **Black KL** (2012). Current Surgical Management of High Grade Gliomas. In Quinones-Hinojosa A (ed), Schmidek and Sweet's Operative Neurosurgical Techniques 6th Edition (105-110). Philadelphia, PA: Elsevier.
43. Lee BS, Hanson CJ, Amatya R, Chung E, Ghani M, Yen A, **Black KL**, Yu JS. Nanoparticle-based treatment and imaging of brain tumor: potentials and limitations. The Textbook of Nanoneuroscience and Nanoneurosurgery. Kateb B & Heiss JD (eds). CRC Press Taylor & Francis Group, LLC. 361-380, 2014.
44. Irvin DK, Patil CG, **Black KL**. Immune-based targeting in Cancer. The Textbook of Nanoneuroscience and Nanoneurosurgery. Kateb B & Heiss JD (eds). CRC Press Taylor & Francis Group, LLC. 141-146, 2014.
45. Kateb B, Yamamoto V, Basser P, Roy M, Levy L, Tajbakhsh J, Steinberg G, Rosen A, **Black KL**, Teo C, Sidhu K, Berger M, Grundfest W. Nanoneuroscience and Nanoneurosurgery: A Key Component of President Obama's Brain Mapping Initiative. The Textbook of Nanoneuroscience and Nanoneurosurgery. Kateb B & Heiss JD (eds). CRC Press Taylor & Francis Group, LLC. 547-556, 2014.
46. Patil R, Koronyo Y, Ljubimov AV, Salumbides B, Mamelak AN, Gangalum PR, Ding H, Portilla-Arias J, Holler E, Butte PV, Koronyo-Hamaoui M, Ljubimova JY, **Black KL**. Advances in Imaging: Brain tumors to Alzheimer's disease. Bangkok Journal of Medicine 10, 2287-9674 (ISSN: 2287-0237 September 2015).
47. Barnard ZR, Chu RM, **Black KL**. Current Surgical Management of High-Grade Gliomas; New and Recurrent. In Quinones-Hinojosa A (ed), Schmidek and Sweet's Operative Neurosurgical Techniques: Indications, Methods, and Results. 7th Edition (in press)
48. Hampel HJ, Toschi N, Babilonih C, Baldacci F, **Black KL**, Bokde ALW, Bun RS, Cacciola F, et al. Revolution of Alzheimer Precision Neurology - Passageway of Systems Biology and Neurophysiology. In Perry, Moreira, Sorensen, Avila (eds), Alzheimer's Disease: New Beginnings. (in press)

49. Koronyo-Hamaoui M, Doustar J, Oviatt M, **Black KL**, Koronyo Y. Advances in Retinal Imaging: Retinal Amyloid Imaging. In Grzybowski and Barboni (eds), OCT and New Imaging in Central Nervous System Diseases: The Eye as a Window to the Brain. (in preparation)

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. Keynote Commencement Speaker: Brody School of Medicine. East Carolina University, Greenville, NC, May 11, 2001
28. Invited Guest: People. Ideas. Nature. Creativity 2 (PINC) Conference, Netherlands, May 14-15, 2001
 - *Future of Medicine Panelist.*
29. 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.*
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: 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: 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*
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: 6th Annual World Congress for Brain Mapping and Image Guided Therapy, Boston, MA, August 28, 2009.
 - *Outsmarting Brain Tumors: from NanoDrugs to Optical Imaging*
63. Keynote Speaker: Howard University Medical Center Grand Rounds, Washington DC, September 28, 2009
 - *Spiritualizing Medicine: the Miracles of Brain Surgeries*
64. Invited Speaker: Levi Watkins, Jr. Lecture, Vanderbilt University Medical Center, Nashville, TN, October 15, 2009
 - *Brain Tumors: The Good, The Bad, and The Ugly*
65. Invited Speaker: 2009 TEDMED Conference, San Diego, CA, October 29, 2009
 - *Can Brain Surgery be Non-invasive?*
66. Invited Participant and Moderator: 2009 Festival of Thinkers, Future Well-Being: Towards a Healthier World Session, Abu Dhabi, United Arab Emirates, November 3, 2009
67. Invited Speaker: Swedish Neuroscience Institute Grand Rounds, Seattle, WA, March 4, 2010
 - *Advances in Neurosurgical Approaches to Malignant and Primary Brain Tumors*
68. Keynote Speaker: 13th Annual Spirituality and Medicine Seminar Series, Howard University Hospital, Washington, DC, April 16, 2010
 - *Restoring the Temple: The Miracle of the Brain*
69. Invited Panelist: 2011 Education without Borders, Abu Dhabi, United Arab Emirates, March 2011

70. Honored Speaker: Martin Haet Lectureship, Cedars-Sinai Alumni Association, Los Angeles, CA December 15, 2011
 - *Selected Contributions from Cedars-Sinai to Clinical Neuroscience*
71. Invited Speaker: www.www Conference, ESRI Conference Center, Redlands, CA September 19, 2012
72. Meeting Chair: Fastercures Glioblastoma Multiforme Scientific Retreat, Milken Institute Conference Center, Santa Monica, CA, October 5, 2012
 - *Index Patient Update and Discussion of Therapeutic Options*
 - *Drug Delivery Strategies*
73. Keynote Speaker: 10th Annual Pre-medical, Pre-public health, Pre-Nursing, Pre-Pharmacy, and Pre-Dentistry, Conference "Guiding your Passion for Medicine", American Medical Students Association, American River College/University of California Davis (AMSA ARC/UCD), Davis, California, October 6, 2012
74. Invited Speaker: Google's Solve for X Conference, San Martin, CA, February 6, 2013
 - *A healthcare tsunami: decline of cognitive function with aging*
75. Invited Speaker: 2nd African First Ladies Health Summit, Los Angeles, CA, April 2, 2013
76. Invited Speaker: Congressional Neuroscience Caucus, Washington DC, May 10, 2013
 - *A healthcare tsunami: decline of cognitive function with aging*
77. Science Committee Member: 10th Annual World Congress of the Society for Brain Mapping and Therapeutics (SBMT), Washington DC, May 12-14, 2013
78. Meeting Chair: Fastercures Glioblastoma Multiforme Scientific Retreat at the 2013 Annual Meeting of the American Society of Surgical Oncology (ASCO) Chicago, IL, June 2, 2013
79. Invited participant: Society for Brain Mapping and Therapeutics (SBMT) BRAIN initiative meeting, Washington DC, November 7, 2013
80. Invited speaker: 34th Annual Meeting of the Mexican Academy of Neurology, Merida, Yucatan, Mexico, November 2-9, 2013.
 - *Immune Therapy for Malignant Gliomas*
 - *Retinal Imaging for Early Detection of Alzheimer's Disease*
81. Meeting Chair: Fastercures Glioblastoma Multiforme Scientific Retreat at the 2013 Annual Meeting of the American Society for Neuro-Oncology (SNO) San Francisco, CA November 21, 2013
82. Invited Participant: Google's Solve for X Conference, San Martin, CA, February 5-7, 2014

83. Honored Speaker: Town Hall Los Angeles, Los Angeles, CA, February 26, 2014
 - *A Healthcare Tsunami: Decline of Cognitive Function with Aging*
84. Invited Speaker: Special Brain Sciences Lecture University of New South Wales (UNSW), Sydney, Australia, March 20, 2014.
 - *Early detection and treatment opportunities for Alzheimer's disease*
85. Session Co-Chair: Cancer Immunotherapy Private Session at the 2014 Milken Institute Global Conference, Los Angeles, CA, April 28, 2014
86. Invited Participant: Chopra Foundation's Sage and Scientist, San Diego, CA, August 23, 2014.
 - *Healthcare Tsunami: An Aging Population's Cognitive Decline*
87. Plenary Presentation: NCI Alliance for Nanotechnology Annual Meeting, Rockville, MD, October 1, 2014.
 - *Surgery and Nanotechnology - What are the benefits?*
88. Visiting Professor: University of Michigan Julian T. Hoff Lecture, Ann Arbor, MI, October 9, 2014.
 - *Brain Tumors: From Vaccines to Intra-operative Imaging*
89. Invited speaker: Bangkok Medical Center, Bangkok, Thailand, November 14, 2014
 - *Global World Class Neuroscience: Los Angeles to Bangkok*
89. Invited Speaker: Stanford University Medical Center Neurosurgery Grand Rounds, Stanford, CA, February 13, 2015
 - *Brain Tumors: From Vaccines to Intra-operative Imaging*
90. Invited Speaker: Los Angeles Radiological Society MidWinter 2015, Pasadena, CA February 22, 2015
 - *Modern Neurosurgical Approaches to Treating Tumors of the Central Nervous System*
91. Keynote Speaker: 2015 Society for Brain Mapping and Therapeutics Annual Meeting, Los Angeles, CA, March 6, 2015
 - *Imaging Techniques from Brain Tumor to Alzheimer's Disease*
92. Session Chair: What Nanomedicine Can Learn from Basic Biology for the Treatment? 3rd Nanomedicine for Imaging and Treatment Conference, Los Angeles, CA, March 13 -14, 2015
93. External Reviewer: Duke University Medical Center, Durham, NC, March 15 – 17, 2015

94. Invited Speaker: Momentum: Black Men's Leadership Retreat, Orlando, FL, April 9 – 11, 2015
 - *Healthcare Tsunami: An Aging Population's Cognitive Decline*
95. Invited Speaker: Distinguished Speaker Luncheon – California Club, Los Angeles, CA, September 16, 2015
 - *Brain Health Throughout Life*
96. Keynote Speaker: Bangkok Dusit Medical System Academic Annual Meeting, Bangkok, Thailand, September 23-25, 2015
 - *Advances in Brain Imaging from ALZ to Brain Tumors*
97. Session Panelist: Milken Institute's Partnering for Cures, New York, NY, November 1-3, 2015
 - *Reinventing Discovery for the 21st Century*
98. Invited Speaker: Docs for Dinner, Hamilton, Bermuda, March 9, 2016
 - *Emerging Imaging Technologies from Brain Tumors to Alzheimer's Disease*
99. Keynote Speaker: NeuroTech SF, San Francisco, CA, April 6, 2016
 - *From early, retina-based ALZ diagnosis to BBB penetrating tumor treatments - the neuroscience revolution is underway*
100. Invited Speaker: Senate Committee Presentation – Jonathan Club, Los Angeles, CA, May 16, 2016
 - *Brain Health Throughout Life*
101. Invited Speaker: 3rd Annual Subcortical Society Group Meeting, Denver, CO, July 8, 2016
 - *Tissue Differentiation with Optical Fluorescence & Fluorescing Dyes/Wavelength*
102. Invited Speaker: Mae Fah Lung University Medical School of Medicine Special Lecture, Chiang Rai, Thailand, July 15, 2016
 - *Neuroanatomy, Neurophysiology and Clinical Relevance*
 - *Advances in Neurosurgery*
103. Keynote Speaker: Bangkok Dusit Medical System Academic Annual Meeting, Bangkok, Thailand, September 13-16, 2016
 - *Advances in Diagnosis and Treatment of Neurological Disorders*
104. Invited Speaker: Jet Propulsion Laboratory's (JPL) Distinguished Lecturer Series on Medical Engineering, Los Angeles, CA, March 16, 2017
 - *Tissue Differentiation with Optical Fluorescence & Fluorescing Dyes/Wavelength*
105. External Reviewer: Johns Hopkins Medical Center, Baltimore, MD, April 2 – 3, 2017

106. Keynote session panelist: Bangkok Dusit Medical System Academic Annual Meeting, Bangkok, Thailand, September 1, 2017.
 - *International Collaboration and Partnership for BDMS Center of Excellence (CoE)*
107. Keynote speaker: 2018 Cedars-Sinai Board of Governors Annual Meeting, Los Angeles, CA, February 1, 2018
 - *Brain Health Throughout Life*
108. Invited speaker: 4th Annual Culture Shifting Weekend, Mountain View, CA, April 21, 2018
 - *Retinal Imaging for Alzheimer's disease*

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 Niguel, 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 C₆ 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 C₆ 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 3[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-transstentorial 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
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 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-b 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
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