

CURRICULUM VITAE

PART I: General Information

DATE PREPARED: June 2016

Name: Santosh Kesari

Office Address: John Wayne Cancer Institute
2200 Santa Monica Blvd.
Santa Monica, CA 90404
Phone: (310) 829-8265
Fax: (310) 582-7287

Clinic Address: Providence Saint John's Health Center
2121 Santa Monica Blvd.
Santa Monica, CA 90404
Phone: (310) 829-8265
Fax: (310) 582-7287

Work Email: kesaris@jwci.org

Place of Birth: Hyderabad, India

Citizenship: USA

Education:

1989 H.S., George Washington High School
Charleston, WV

1989-1992 B.A., Biology and Mathematics
University of Pennsylvania, College of Arts and Sciences
Philadelphia, Pennsylvania

1992-1999 M.D., Medicine
University of Pennsylvania, School of Medicine

1993-1996 Ph.D., Molecular Biology
University of Pennsylvania, School of Medicine

Postdoctoral Training:

1999 Extern, Neurology
National Hospital for Neurology and Neurosurgery, Queen Square,
United Kingdom

1999-2000 Intern, Internal Medicine

Beth Israel Deaconess Medical Center, West Roxbury VA Hospital,
Boston, Massachusetts

- 2000-2003 Resident, Neurology, Partners Neurology Program
Massachusetts General Hospital, Brigham and Women's Hospital,
Children's Hospital Boston, Jamaica Plain VA Hospital, Harvard
Medical School, Boston, Massachusetts
- 2003-2004 Clinical Fellow, Neuro-Oncology, Mentors: Patrick Y. Wen and
Tracey T. Batchelor, Dana-Farber Cancer Institute/Massachusetts
General Hospital/Brigham and Women's Hospital, Boston,
Massachusetts
- 2004 Program in Clinical Effectiveness
Harvard School of Public Health, Boston, Massachusetts
- 2004-2006 Research Fellow, Laboratory of Charles D. Stiles
Department of Cancer Biology, Dana-Farber Cancer Institute
- 2012-2013 Health Sciences Leadership Academy
UC San Diego, La Jolla, California

Licensure and Certification:

- 1999-2000 Limited License in Medicine
2000-2001 Limited License in Neurology
2001-2009 Full License in Massachusetts, inactive
2005-present American Board of Psychiatry and Neurology
2009-present Full License in California, active
2011-present Neuro-Oncology Certification, United Council for Neurologic
Subspecialties
2013-present Fellow of the American Neurological Association (FANA)
2013 Certificate in Healthcare Leadership, UC San Diego Extension
2015-present Fellow of the American Academy of Neurology (FAAN)

Academic Appointments:

- 1999-2000 Clinical Fellow in Medicine, Harvard Medical School
2000-2003 Clinical Fellow in Neurology, Harvard Medical School
2003-2007 Instructor in Neurology, Harvard Medical School
2007-2009 Assistant Professor in Neurology, Harvard Medical School
2009-2011 Visiting Associate Professor in Neurology, Harvard Medical School
2009-2013 Associate Professor in Neurosciences, UC San Diego
2013-2015 Adjunct Professor, Graduate School of Public Health, San Diego State
University
2013-2015 Professor in Neurosciences, UC San Diego
2013-2015 Adjunct Professor in Radiation Medicine and Applied Sciences, UC
San Diego

2015-present Member, Los Angeles Biomedical Research Institute
2015-present Professor of Neurosciences, John Wayne Cancer Institute
2015-present Chair, Department of Translational Neuro-Oncology and
Neurotherapeutics, John Wayne Cancer Institute

Hospital or Affiliated Institution Appointments:

1999-2000 Intern in Medicine, Beth Israel Deaconess Medical Center
2000-2003 Resident in Neurology, Partners Neurology Program, Massachusetts
General Hospital, Brigham and Women's Hospital, Children's Hospital
Boston
2003-2006 Fellow in Neuro-Oncology, Massachusetts General Hospital
2003-2009 Associate Physician, Dana-Farber Cancer Institute
2003-2009 Associate Physician, Brigham and Women's Hospital
2009-2011 Visiting Scientist in Medical Oncology, Dana-Farber Cancer Institute
2009-2015 Attending Physician, UC San Diego Medical Center
2015-present Attending Physician, Providence Saint John's Health Center

Hospital and Health Care Organization Service Responsibilities:

1999-2000 Intern in Medicine, Beth Israel Deaconess Medical Center
2000-2003 Resident in Neurology, Partners Neurology Program, Massachusetts
General Hospital, Brigham and Women's Hospital, Children's Hospital
Boston
2003-2006 Fellow in Neuro-Oncology, Massachusetts General Hospital
2003-2009 Member, Harvard Center for Neurodegeneration and Repair
2003-2009 Attending Physician, Dana-Farber Cancer Institute
2003-2009 Attending Physician, Brigham and Women's Hospital
2005-2009 Member, Dana-Farber/Harvard Cancer Center
2007-2009 Affiliate Member, Harvard Stem Cell Institute
2007-2009 Harvard University NeuroScience (HUNS) Faculty

Major Administrative Responsibilities:

Brigham and Women's Hospital/Dana-Farber Cancer Institute

2002 Chair, Information Technology Committee, Partners Neurology
Residency Program
2003-2009 Member, weekly Brain Tumor Center Conference, Dana-
Farber/Brigham and Women's Cancer Center
2003-2007 Organizer, weekly Neuro-Oncology Conference at Dana-
Farber/Brigham and Women's Cancer Center
2007-2009 Co-organizer, weekly Neuro-Oncology Conference at Dana-
Farber/Brigham and Women's Cancer Center

UC San Diego, School of Medicine

2009-2015 Chief, Division of Neuro-Oncology, Department of Neurosciences,

2009-2015	UC San Diego Director, Neuro-Oncology Program, UC San Diego Moores Cancer Center
2009-2015	Organizer, weekly Neuro-Oncology Conference at UC San Diego Moores Cancer Center
2009-2015	Organizer, weekly Brain Tumor Board at UC San Diego Moores Cancer Center
2010-2015	Co-Leader, CNS Specialized Cancer Unit, Moores Cancer Center
2010-2015	Director, Neuro-Oncology Fellowship Program, UC San Diego Moores Cancer Center
2010-2015	Organizer, Brain Tumors: Annual Collaborative Care Conference, UC San Diego School of Medicine
2013-2015	Organizer, weekly Clinical Trial Research Coordinator (CTRC) Rounds at UC San Diego Moores Cancer Center

Providence Saint John's Health Center

2015-present	Director of Neuro-Oncology
2015-present	Member, Cancer Committee
2016-present	Member, Medicine Peer Review Committee

John Wayne Cancer Institute

2015-present	Director of Translational Neuro-Oncology Laboratories
2015-present	Chair, Department of Translational Neuro-Oncology and Neurotherapeutics, John Wayne Cancer Institute
2015-present	Academic Promotions and Appointment Council (APAC)
2015-present	Resources Committee
2016-present	Executive Leadership Committee

Providence Health System

2015-present	Brain Tumor Registry
2015-present	Brain Tumor Care Pathway Review Group
2015-present	Cancer Clinical Performance Group (CPG)
2015-present	Research Leadership Council
2015-present	Cancer CPG- Thoracic Cancer Clinical Focus Group
2015-present	Cancer CPG- Genomics, Clinical Applications Focus Group
2016-present	Neurology Clinical Performance Group

Major Committee Assignments:

Brigham and Women's Hospital

2005-2006	Member, Neuroscience Database Working Group, Brigham and Women's Hospital, Biomedical Research Institute
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- 2006-2007 Member, Neuroscience Working Group, Neuroscience Comprehensive Research Center, Brigham and Women's Hospital, Biomedical Research Institute
- 2006-2007 Member, Fund Raising Task Force, Neuroscience Comprehensive Research Center, Brigham and Women's Hospital, Biomedical Research Institute

UC San Diego, School of Medicine

- 2010-2015 Associate Member, Clinical and Translational Research Institute
- 2011-2015 Speakers Bureau, UC San Diego Health Sciences Government and Community Affairs Department
- 2012-2015 Member, Recruitment and Admissions Committee, UC San Diego
- 2014-2015 Member, Scientific Review Committee, Clinical Translational Research Institute (CTRI) Pilot Project Grants Program
- 2014-2015 Member, Cancer Center Global Health, Global Health at the Department of Family & Preventive Medicine

UC San Diego, Department of Neurosciences

- 2010-2012 Member, Academic Faculty Senate representative assembly
- 2010-2015 Member, Clinical Practice committee
- 2010-2015 Member, Research committee
- 2011-2012 Chair, Clinical Neuro-Oncology Faculty Search Committee
- 2011-2012 Chair, Research Neuro-Oncology Faculty Search Committee
- 2012-2015 Member, Ad Hoc Committee Reviewer, Neurosciences Committee on Academic Promotions
- 2014-2015 Member, Neurological Council Workgroup
- 2015 Member, Recruitment Committee

UC San Diego, Moores Cancer Center

- 2010 Member, Retreat planning committee, Moores Cancer Center 2011 Scientific Faculty Retreat
- 2010 Member, Clinical Interface Team, Program in Translational and Clinical Cancer Genomics, Moores Cancer Center
- 2010 Member, Drug Discovery Interest Group, Moores Cancer Center
- 2010-2015 Member, Moores UCSD Cancer Center Cabinet Leadership Steering Committee
- 2011-2014 Member, Oncology Research Group (ORG) committee, Moores Cancer Center
- 2011 Member, Retreat planning committee, Moores Cancer Center 2012 Scientific Faculty Retreat "Transdisciplinary Research"
- 2012-2014 Member, Quality Committee, Moores Cancer Center
- 2013 Member, Scientific Review Committee, MCC CCSG pilot project grant, Moores Cancer Center
- 2014-2017 Member, Scientific Review Committee, ACS-IRG pilot project grant, Moores Cancer Center

2015 Faculty Member, Cancer Therapeutics Training (CT2) Program

UC San Diego, Department of Pathology

2011 Member, Neuropathology Faculty Search Committee

John Wayne Cancer Institute

2015-2016 Member, JWCI Executive Director Search Committee

2016-present Member, Executive Leadership Committee

National

2006-present International Outreach Committee, Society for Neuro-Oncology
2015-present Chair, MGH Neuro-Oncology K12 Alumni Advisory Committee

International

2009-present Advisor, Indian Society for Neuro-Oncology Annual Meeting, India
2014 Scientific Review Committee, 11th Meeting of the Asian Society
Neuro-Oncology, Istanbul, Turkey

Community Service Related to Professional Work:

2007 Speaker, “Asian Staff and Faculty at DFCI: Who are we?”
Asian Pacific American Heritage Month, DFCI Cultural
Observances Committee, Boston, MA

2007 Speaker, Continuing Umbrella of Research Experiences (CURE)
Summer student training program, DFCI, Boston, MA

2007 Health Screener, India Day Health Screening Fair
IMANE (Indian Medical Association of New England)

2007 Panelist, Cultural Cross Panel Dialogue, “Communicating Across
Cultures” Course for Masters Program, Simmons College, Boston,
MA

2010 Keynote Speaker, San Diego Brain Tumor Foundation, Open House at
Moores Cancer Center, “Accelerating Novel Treatment Strategies for
Brain Tumors”

2010 Speaker, Moose Lodge #1713, Monthly San Diego District Meeting,
Lemon Grove, CA, “Advances in Cancer Treatments”

2010 Speaker, Patient and Family Resource Center at Moores Cancer
Center, “Overview of the new Brain Cancer Unit and the basics of
brain cancer, treatments and psychosocial effects of the disease” La
Jolla, CA

2010 Speaker, Visiting Dokkyo medical students, Moores Cancer Center,
“Overview of Neuro-Oncology” La Jolla, CA

2011 Speaker, Encinitas community, Encinitas Library, Spotlight on Cancer
series, “Brain Tumors: Causes, hereditary factors, and treatment
options” Encinitas, CA

2011	Consultant and Physician Champion for the Philippine Nurses Association's Cancer Survivors Network, San Diego, CA
2011	Speaker, Rady's Children's Hospital Neuro-Oncology Family Day, San Diego, CA
2011-2014	Host Committee for Innovation Night at the La Jolla Playhouse, La Jolla, CA
2012	Speaker, Rady's Children's Hospital Neuro-Oncology Family Day, San Diego, CA
2013	Speaker, NF California, "Ask the Doctor" event, La Jolla, CA
2014	Mentor, Doctor Mentorship Program, Phi Delta Epsilon International Medical Fraternity, UC San Diego, La Jolla, CA
2014	Speaker, NF California and Children's Tumor Foundation, "Ask the Doctor" meeting, La Jolla, CA
2014	Speaker, Rady's Children's Hospital Neuro-Oncology Family Day, San Diego, CA
2016	Invited Speaker, Chautauqua Weekend, Breaking thru Barriers: Oncology and Neurosciences, Saint John's Health Center Foundation, Ojai, California

Professional Societies:

1994-present	Society for Neuroscience	Member
1995-present	American Assoc. for the Advancement of Science	Member
1999-2010	Massachusetts Medical Society	Member
2000-2010	Boston Society of Neurology and Psychiatry	Member
2000-present	American Academy of Neurology	Member
2002-present	Society for Neuro-Oncology	Member
2004-present	American Society of Clinical Oncology	Member
2006-2009	New York Academy of Sciences	Member
2007-present	AANS/CNS Section on Tumors	Member
2007-2009	Brain Research Academy International for Neoplasia (B.R.A.I.N.)	Founding Member
2007-present	Association of Indian Neurologists in America	Member
2007-2009	Center for the Development of a Virtual Tumor (CViT)	Member
2008-present	American Association for Cancer Research	Member
2008-present	European Association of Neuro-Oncology	Member
2008-present	American Society of Neuroimaging	Member
2009-present	Indian Society of Neuro-Oncology	Member
2010-present	Association of California Neurologists	Member
2013-present	American Neurological Association	Member

Editorial Boards:

2003-present	Ad-hoc Reviewer	Cancer Investigation
2004-present	Ad-hoc Reviewer	Neurology
2004-present	Ad-hoc Reviewer	Neurology India
2004-2005	Ad-hoc Reviewer	Journal of Neuro-Oncology

2004-present	Ad-hoc Reviewer	Journal of Neuroimaging
2005-present	Ad-hoc Reviewer	Journal of Clinical Oncology
2005-present	Editorial Board	Journal of Neuro-Oncology
2006-present	Ad-hoc Reviewer	Expert Review of Anticancer Therapy
2006-present	Ad-hoc Reviewer	Stem Cells
2007-present	Ad-hoc Reviewer	Biologics: Targets & Therapy
2007-present	Ad-hoc Reviewer	Targeted Proteins Database (TPdb)
2007-present	Ad-hoc Reviewer	Journal of the Neurological Sciences
2007-present	Ad-hoc Reviewer	Breast Cancer Research
2007-present	Ad-hoc Reviewer	Cancer
2007-present	Ad-hoc Reviewer	New England Journal of Medicine
2008-present	Editorial Board (Founding)	International Journal of Biomedical
		Nanoscience and Nanotechnology
2008-present	Ad-hoc Reviewer	Future Neurology
2008-present	Ad-hoc Reviewer	Cancer Chemotherapy and
		Pharmacology
2008-present	Ad-hoc Reviewer	Acta Neuropathologica
2008-present	Ad-hoc Reviewer	Brain Research
2008-present	Ad-hoc Reviewer	Molecular Cancer Therapeutics
2008-present	Ad-hoc Reviewer	NeuroImage
2008-present	Ad-hoc Reviewer	Wiener klinische Wochenschrift
2008-present	Ad-hoc Reviewer	Journal of Neurology, Neurosurgery &
		Psychiatry
2008-present	Ad-hoc Reviewer	Transplant Infectious Disease
2009-present	Ad-hoc Reviewer	Journal of Clinical Neurology
2009-present	Ad-hoc Reviewer	Cancer Research
2009-present	Ad-hoc Reviewer	Hospital Physician
2009-present	Ad-hoc Reviewer	Cancer Letters
2009-present	Ad-hoc Reviewer	Journal of Clinical Investigation
2009-present	Ad-hoc Reviewer	Radiotherapy and Oncology
2009-present	Ad-hoc Reviewer	Neuro-Oncology
2010-present	Ad-hoc Reviewer	Nature Reviews Clinical Oncology
2010-present	Ad-hoc Reviewer	Brain
2010-present	Ad-hoc Reviewer	International Journal of Cancer
2010-present	Ad-hoc Reviewer	Cancer Biology and Therapy
2010-present	Ad-hoc Reviewer	Laboratory Investigation
2010-present	Ad-hoc Reviewer	Journal of Clinical Oncology
2010-present	Ad-hoc Reviewer	PLoS ONE
2010-present	Ad-hoc Reviewer	Drugs of Today
2010-present	Ad-hoc Reviewer	Webmedcentral
2011-present	Ad-hoc Reviewer	Neurosurgery
2011-present	Ad-hoc Reviewer	Journal of the Royal Society Interface
2011-present	Ad-hoc Reviewer	International Journal of Biomedical
		Science
2011-present	Ad-hoc Reviewer	Clinical Investigation
2011-present	Ad-hoc Reviewer	Proceedings of the National Academy of
		Sciences
2011-present	Ad-hoc Reviewer	Experimental Neurology

2011-present	Ad-hoc Reviewer	Glia
2011-present	Ad-hoc Reviewer	BBA - Reviews on Cancer
2011-present	Editorial Board (Founding)	CNS Oncology
2011-present	Ad-hoc Reviewer	Journal of Hematology & Oncology
2012-present	Ad-hoc Reviewer	Clinical Cancer Research
2012-present	Senior Editorial Board	American Journal of Cancer Research
2012-present	Ad-hoc Reviewer	European Journal of Medical Research
2012-present	Ad-hoc Reviewer	Genes, Chromosomes and Cancer
2012-present	Ad-hoc Reviewer	European Journal of Cancer
2012-present	Ad-hoc Reviewer	Tumori
2012-present	Ad-hoc Reviewer	F1000 Medicine Reports
2012-present	Editorial Board	Translational Neuroscience
2012-present	Ad-hoc Reviewer	Expert Opinion On Investigational Drugs
2012-present	Ad-hoc Reviewer	Science Translational Medicine
2012-present	Editorial Board	Neuroscience Journal
2012-present	Ad-hoc Reviewer	Clinical Neurology and Neurosurgery
2012-present	Ad-hoc Reviewer	Journal of Clinical Investigation
2012-present	Editorial Board	Open Journal of Regenerative Medicine
2012-present	Ad-hoc Reviewer	Clinical Chemistry
2012-present	Ad-hoc Reviewer	Canadian Journal of Neurological Sciences
2012-present	Ad-hoc Reviewer	International Journal of Molecular Sciences
2012-present	Ad-hoc Reviewer	Molecular Biosystems
2012-present	Ad-hoc Reviewer	Metabolic Brain Disease
2013-present	Ad-hoc Reviewer	BioMedCentral
2013-present	Editorial Board	Journal of Neurological Sciences
2013-present	Editorial Board	Journal of Translational Medicine
2013-present	Editorial Board	Journal of Tumor
2013-present	Editorial Board	Middle East Journal of Cancer
2013-present	Ad-hoc Reviewer	African Journal of Biotechnology
2013-present	Ad-hoc Reviewer	Nanomedicine
2013-present	Ad-hoc Reviewer	Cell Cycle
2013-present	Editorial Board	Nature Scientific Reports
2013-present	Ad-hoc Reviewer	Journal of Neuroimaging
2013-present	Ad-hoc Reviewer	Future Oncology
2014-present	Ad-hoc Reviewer	Oncogene
2014-present	Section Review Editor	Frontiers in Radiation and Health, Frontiers in Public Health
2014-present	Ad-hoc Reviewer	Pharmaceutical Research
2014-present	Ad-hoc Reviewer	Molecular Cancer
2014-present	Ad-hoc Reviewer	Advances in Pharmacology
2014-present	Ad-hoc Reviewer	Clinical Breast Cancer
2014-present	Editorial Board (Founding)	Scholarena Journal of Neurology
2014-present	Ad-hoc Reviewer	Journal of Neurochemistry
2014-present	Ad-hoc Reviewer	Muscle and Nerve
2014-present	Editorial Board (Founding)	Molecular Inhibitors in Targeted

2014-present	Ad-hoc Reviewer	Therapy
2014-present	Editorial Board	Cancer Informatics
2014-present	Ad-hoc Reviewer	C21 Healthcare, Inc
2015-present	Ad-hoc Reviewer	Libertas Academica
2015-present	Ad-hoc Reviewer	Clinical & Experimental Metastasis
2015-present	Editorial Board	Medical Hypothesis
2015-present	Ad-hoc Reviewer	Annals of Translational Medicine
2015-present	Ad-hoc Reviewer	Expert Review of Neurotherapeutics
2015-present	Ad-hoc Reviewer	Oncotarget
2015-present	Ad-hoc Reviewer	Drug Design, Development and Therapy
2015-present	Ad-hoc Reviewer	American Journal of Case Reports
2015-present	Ad-hoc Reviewer	Autophagy
2015-present	Ad-hoc Reviewer	Journal of Neuroimmunology
2015-present	Senior Editor	Journal of Translational Medicine
2016-present	Ad-hoc Reviewer	Brain Pathology

Grant Reviews:

2004	External Grant Reviewer	Catalan Agency for Health Technology Assessment and Research (CAHTA), Barcelona, Spain
2006	External Grant Reviewer	Children's Brain Tumor Foundation (CBTF), New York, NY
2008	Ad Hoc Member	NIH-RAID Study Section (X01), ZRG1 BST-J (90) R, Special Emphasis Review Panel, National Institutes of Health, Bethesda, MD
2009	External Grant Reviewer	Ontario Ministry of Research and Innovation, Ontario Research Fund - Global Leadership Round in Genomics & Life Sciences Competition (GL2 Competition), Ontario, Canada
2010	Ivy Scientific Reviewer Network (SRN)	The Ben and Catherine Ivy Foundation
2010	Grant Reviewer	Center for Integration of Medicine and Innovative Technology, HMS, Boston, U54 center grant, Bioengineering and Bioinformatics Program, The Methodist Hospital Research Institute
2010	Grant Reviewer	Estonian Science Foundation
2010	Grant Reviewer	American Brain Tumor Association
2010-present	Grant Reviewer	Cancer Research UK
2011	Grant Reviewer	Istituto Toscano Tumori (ITT), Florence, Italy
2012	Grant Reviewer	Archimedes Foundation, Tartu, Estonia
2012	Grant Reviewer	Foundation
2012	Grant Reviewer	CTEP/NCI grant reviewer, Adult Brain Tumor Consortium Reviewer

2012	Grant Reviewer	NIH, NCI Subcommittee J, ad hoc
2012-2013	Blinded Clinical Reviewer	RadMD, ICON Medical Imaging
2013	PO1 External Advisor	Dr. Joe Ramos, University of Hawaii Cancer Center
2013-present	Grant Reviewer	Voices Against Brain Cancer Foundation
2013	External Grant Reviewer	Catalan Agency for Health Information, Assessment and Quality (CAHIAQ), TV3 Marató Call about Cancer Barcelona, Spain
2013	NCI Site Visit Reviewer	NIH, CABSC, NCI Intramural Program Radiation Oncology Branch (ROB)
2013-present	Grant Reviewer	NIH, NCI Subcommittee J, standing
2013	Grant Reviewer	Medical Research Council (MRC), London, United Kingdom
2013	Grant Reviewer	Institute of Translational Science at the Brain and Spine Institute (IHU-A-ICM), Hôpital Pitié-Salpêtrière, Paris, France
2014	Abstract Review Committee	Preclinical Experimental Therapeutics; 20th International Conference on Brain Tumor Research and Therapy (ICBRT20), Lake Tahoe, California
2014	Grant Reviewer	National Science Centre (Narodowe Centrum Nauki – NCN), Poland
2014	Grant Reviewer	Health Research Board, Ireland
2014	Grant Reviewer	Oak Ridge Associated Universities
2014	Final Performance Reviewer	Master Tobacco Settlement Fund, Pennsylvania Department of Health
2014	Grant Reviewer	Swiss National Science Foundation
2014	Grant Reviewer	Cancer Research UK, London, UK
2014	Grant Reviewer	Swiss Cancer League
2014	Grant Reviewer	Nazarbayev University Cancer Research
2014	Grant Reviewer	BlastGBM Foundation, Ohio
2015	Grant Reviewer	NIH, NCI Outstanding Investigators Award study section
2015	Grant Reviewer	NIH, NCI ZCA1 GRB-I (O1) M
2015-2016	Grant Reviewer	Chairperson, American Brain Tumor Association Discovery Grant
2015	Grant Reviewer	International reviewer, National Medical Research Council, Translational and Clinical Research Flagship Programme, Ministry of Health, Singapore
2016	Grant Reviewer	NIH, NCI Outstanding Investigators Award study section
2016	Grant Reviewer	UK Cancer Research, UK

Awards and Honors:

1988 United States Academic Decathlon Participant

1990	Penn Medical Scholar, University of Pennsylvania
1991	Benjamin Franklin Scholar, University of Pennsylvania
1991	Pi Mu Epsilon National Mathematics Honor Society
1994	NIH National Research Service Award
1995	American Society for Virology Student Travel Award
1995	Dr. William A. Jeffers Prize, University of Pennsylvania
1996	Dr. William A. Jeffers Prize, University of Pennsylvania
2002	American Neurological Association Travel Award
2003	Founders Award, American Academy of Neurology
2006	Sontag Foundation Distinguished Scientist Award
2007-2009	Marquis Who's Who in America
2008	Marquis Who's Who in Science and Engineering
2008	Global Directory of Who's Who
2009	Gold Doc Award, Arnold P. Gold Foundation
2010	Overseas Executive Chairman, Chongqing International Neurological Forum, Chongqing Association for Science and Technology, Chongqing, China
2010-present	Best Doctors in America
2011	U.S. News Top Doctors in Medical Oncology
2011	Doc Star (Cancer), Geoffrey Beene Rock Stars of Science
2011	Finalist, Health Care Champions Award, Health Technology Innovations and Research, San Diego Business Journal
2011	Special Commendation from Mayor Jerry Sanders, City of San Diego
2011	Certificate of Appreciation from Pam Slater-Price, County of San Diego
2012	Recipient, UC San Diego CARES (Clinical Advancement & Recognition of Excellence in Service)
2012	Castle Connolly Top Doctors: Southern California
2012	Winner, Innovation Awards, Medical Research, San Diego Business Journal
2013	Recipient, UC San Diego CARES (Clinical Advancement & Recognition of Excellence in Service)
2015	UCSD Health Sciences Academy of Clinician Scholars
2015	Patriotic Employer Recognition, Employer Support of the Guard and Reserve, Office of the Secretary of Defense, United States
2015	Certificate of Special Congressional Recognition for Significant Contributions to the Field of Health by Congressman Scott Peters, 52 nd District, US House of Representatives
2015	Newsweek Health: Top Cancer Doctors 2015
2015	1st Annual GBM Heroes Award, CURE magazine

Medical/Scientific Advisory Boards:

2009-present	Kenney/Quinn/Ford Brain Tumor Research Foundation
2010	Children's Tumor Foundation NF1 Think Tank meeting
2010-present	Indian Society of Neuro-Oncology, International Advisory Board
2010-present	American Brain Tumor Association, Scientific Advisory Council
2010-present	San Diego Brain Tumor Foundation, Medical Advisory Council

2010-present	Global Cures, Inc, Scientific Advisor
2011-present	Accelerate Brain Cancer Cure, Scientific Advisory Board
2012	Brain Tumors Funders Collaborative Advisory Board
2012-present	The Elliott Foundation/Chris Elliott Fund, Medical Board
2012-present	The Nicolas Conor Institute, Scientific Advisory Board
2012-present	California Brain Tumor Association, Medical Advisory Board
2012-present	Voices Against Brain Cancer, Medical Advisory Board
2012-present	Philippine Brain Tumor Alliance, Board of Advisors
2013-present	Brain Cancer Research Institute, SAB
2014-present	Blast Glioblastoma Foundation, Medical Advisory Board, Akron, OH

Biotechnology/Industry:

2012-present:	DrugArray, Founder, SAB
2013-present:	Curtana Pharmaceuticals, Founder, Board Member, SAB, CMO
2014-present:	PrimeVax, Founder, Board Member, SAB
2014-present:	Lemma Pharmaceuticals, Founder, Board Member, SAB
2014-present:	Nascent Biotechnology, Member of SAB
2014-present:	Pharmanostics, Founder, Board Member, SAB
2015-present:	Batu Biologics, SAB
2015-present:	Nativis, SAB, CMO
2015-present:	Sefacor, Founder, Board Member, SAB
2015-present:	Regen BioPharma Inc, SAB
2015-present:	MD2 Biosciences, Founder, Board Member
2015-present:	Genspera, Member of SAB

Issued and Pending Patents:

- 1) Dayu Teng, Shu Chein, **Santosh Kesari**, Pengfei Jiang. Small Molecule Microarrays and Methods for Making and Using Them. UCSD SD2011-024, U.S. Provisional Patent 61/375,373, filed August 20, 2010. PCT: PCT/US2011/048395; WO/2012/024574 on Aug 19, 2011. 20130184179
- 2) Anna M. Krichevsky, Nadiya M Teplyuk, Brit Mollenhauer, **Santosh Kesari**. Diagnosing and Monitoring CNS Malignancies Using MicroRNA. UCSD SD2012-165-1/BWH 29618-0012P01, U.S. Provisional Application Serial No. 61/457,000, filed on November 10, 2010. PCT: PCT/US2011/061047; WO/2012/068288 on Nov 16, 2011. 20130344063
- 3) **Santosh Kesari**, Rajesh Mukthavaram, Milan Makale, Wolf Wrasidlo. Liposomal Encapsulation of Drugs. UCSD SD2012-176-1, U.S. Provisional Application Serial No. 61/569,146, filed on December 9, 2011. PCT: PCT/US2012/068813; WO/2013/086526. 20140356416
- 4) **Santosh Kesari**, Rajesh Mukthavaram, Igor
- 5) Iny, Milan Makale, Wolf Wrasidlo. Novel therapeutics for brain cancers. UCSD SD2011-212, U.S. Provisional Application Serial No. 61/660,631, filed on June 15, 2012.
- 6) Milan T. Makale, Wolfgang Wrasidlo, Joanna McKittrick, **Santosh Kesari**. UCSD Provisional patent application in progress. Wide Field Low Dose Irradiation To Activate an Anti-Tumor Pro-Drug Carried by a Nanovehicle. UCSD SD2013-199-1, U.S. Provisional Application Serial No. xxx, filed on September 15, 2013.

- 7) **Santosh Kesari**, Rajesh Mukthavaram, Milan Makale, Wolf Wrasidlo. Liposomal Staurosporine Encapsulation. UCSD SD2014-233, U.S. Provisional Application Serial No. xxx, filed on April 10, 2014.
- 8) Milan T. Makale, Wolfgang Wrasidlo, Joanna McKittrick, **Santosh Kesari**. Design and attachment of a photocleavable linker to a nanoscintillator crystal to enable the attachment and radiation induced release of drugs and other agents. UCSD SD2014-357, U.S. Provisional Application Serial No. xxx, filed on September 15, 2014.
- 9) Thomas Ichim, xxx, **Santosh Kesari**. Stimulation of Immunity to Endothelial Cells, Endothelial-like Cells, and Intratumor Vascular Channels Derived from Tumor Tissue. Batu Biologics filed January 16, 2015 62/104123
- 10) Thomas Ichim, xxx, **Santosh Kesari**. Universal Donor Chimeric Antigen Receptor Cells Feb 17, 2015 62/117161
- 11) Thomas Ichim, xxx, **Santosh Kesari**. Composite Tissue Cancer Vaccine. Batu Biologics filed January 22, 2015 U.S. Patent and Trademark office Serial Number: 62/106248
- 12) Thomas Ichim, xxx, **Santosh Kesari**. Chimeric Antigen Receptor Dendritic Cell (CAR-DC) for Treatment of Cancer. Batu Biologics filed February 19, 2015 62/118027
- 13) Thomas Ichim, xxx, **Santosh Kesari**. Augmentation of Cancer and Cancer Endothelial Vaccine Immunogenicity by Histone Deacetylase Inhibitors. Batu Biologics filed February 19, 2015 62/118027
- 14) Thomas Ichim, xxx, **Santosh Kesari**. Immunological Detection of Altered Cells. Brain Cancer Research Institute filed June 2015
- 15) Thomas Ichim, xxx, **Santosh Kesari**. Augmentation of Oncology Immunotherapies by Pterostilbene Containing Compositions
- 16) Thomas Ichim, Sam Wagner, **Santosh Kesari**. Treatment of Glioma by Anti-Angiogenic Active Immunization For Direct Tumor Inhibition and Augmentation of Chemotherapy, Immunotherapy and Radiotherapy Efficacy
- 17) Thomas Ichim, Javier Lopez, Boris Minev, **Santosh Kesari**. Tumor Antigen Modified Dendritic Cells
- 18) Thomas Ichim, **Santosh Kesari**. Exosome Mediated Innate and Adaptive Immune Stimulation for Treatment of Cancer
- 19) Thomas Ichim, **Santosh Kesari**. Modulation of IL-18 Production through Modification of NR2F6 Activity
- 20) Thomas Ichim, **Santosh Kesari**. Augmentation of Stem Cell Activity using Pterostilbene and Compositions Containing Pterostilbene
- 21) Augmentation of Antiinflammatory, Immunomodulatory, and Regenerative Processes in Amyotrophic Lateral Sclerosis Using Xenon and Noble Gas Combinations

Trademarks:

2010 Marlon Garzia Saria, **Santosh Kesari**
Mark: PERSONALIZED CARE IN THE ERA OF PERSONALIZED MEDICINE
Serial number: 85032415

PART II: Research, Teaching, and Clinical Contributions

A. Narrative Report

My research program is focused on understanding the developmental and molecular aberrations resulting in malignant gliomas and using this information to develop novel molecular therapeutics to improve the survival of my patients. Currently, I am the Chair of Department of Translational Neuro-Oncology and Neurotherapeutics at the John Wayne Cancer Institute and Director of Neuro-Oncology at Providence St. John's Health Center. I spend 50% of my efforts in basic and translational research and 50% in clinical research and patient care.

In the lab my focus is on defining the role of Olig genes in the pathogenesis of gliomas, in particular, their role in maintaining the proliferative potential of glioma stem cells in mouse and human xenograft models. I am isolating glioma stem cells from fresh human surgical tissue and culturing *in vitro* and *in vivo* in mice to define the unique molecular and genetic biology of these cells in relation to the whole tumor. This will delineate a set of genes/pathways that is specific for glioma stem cells and lead to the development of small molecule inhibitors. We have also identified small molecule inhibitors of Olig2 pathway and these have been licensed out to a startup company.

The second major aspect of my research activities is in evaluating novel small molecular inhibitors of developmental pathways thought to be important in neural stem cells. In particular the Notch pathway has been shown to be important in gliomas and I have shown that a Notch pathway inhibitor can inhibit the growth of glioma stem cells. These preclinical studies have been quite promising and lead to Phase I/II trial of this gamma-secretase inhibitor in patients with recurrent malignant gliomas. I have also discovered a biomarker that is predictive of response to PDGFR kinase inhibitors and a phase II clinical trial in biomarker-enriched gliomas is in progress. These are some of the many prospective trials that are being planned for gliomas based on the laboratory discoveries. Additionally, combination therapy with multiple agents that target other developmental pathways and standard therapies (i.e, chemotherapy and radiation) may be more efficacious and are being explored in the lab.

My clinical work and teaching responsibilities also focus on neuro-oncological problems and lend insight into better ways to approach my research activities. I attend in the outpatient Neuro-Oncology Clinic two days per week where I care for patients with primary and metastatic brain tumors, paraneoplastic disorders, and neurological complications of cancer. Additionally, I care for patients admitted to the Providence Saint John's Health Center for neuro-oncological and medical issues. I also continue to teach medical students and residents as part of their core clinical neurology rotation. I am actively participating in the training of clinical fellows in medical oncology, neuro-oncology, and neurology.

B. Funding Information

Present:

2012-2017	NIH P32 Role: Co-Investigator (UCSD PI: Bob Carter) Experimental Therapeutics and Biomonitoring for Brain Tumors
2012-2015	Genelux Role: Principal Investigator Identification of CTCs in cancer patients

- 2013-2015 NIH R33
Role: Co-Investigator (PI: Dmitri Simberg, University of Colorado)
Microbubble technology to Isolate CTCs
- 2013-2015 NIH R33
Role: Co-Investigator (PI: Brunie Felding-Habermann, Scripps Research Institute)
Metabolomic Analysis of Breast Cancer Progression
- 2014-2016 NIH R21
Role: Principal Investigator (Co-PI: Milan Makale)
A radiotherapeutic for breast cancer brain metastases
- 2014-2015 NIH STTR, Phase I
Role: Co-PI (Co-PI: Andy Haitt, Mapp Biopharmaceutical)
Novel Immunotherapy for Brain Cancer
- 2014-2015 NIH STTR, Phase I
Role: Co-PI (Co-PI: Greg Stein, Curtana Pharmaceuticals)
Validation of a Novel Treatment for Glioblastoma
- 2015 Nativis
Role: Principal Investigator
Cellular Effects of Radio Frequency Energy Therapy in Cancers
- 2015-2020 NIH R01
Role: Co-Investigator (PI: Roland Friedel, Icahn School of Medicine at Mount-Sinai)
Plexin-B2 signaling in glioma growth, invasion, and glioma stem cell maintenance
- 2015-2019 FDA R01
Role: Principal Investigator
Vascular-Targeted Prodrug for Recurrent Glioblastoma (IND # 105,830)
- 2015-2016 NSBRI
Role: Co-Investigator (PI: Brandon Macias)
Validation of a Cephalad Fluid Shift Countermeasure
- Pending:**
2015 Cellworks
Role: Principal Investigator
Predictive in Silico Modeling to Identify Effective Therapeutics for Glioblastoma
- 2015 Nascent Biotechnologies

- Role: Principal Investigator
Pritumumab for GBM
- 2015 Batu Biologics
Role: Principal Investigator
ValloVax for GBM
- 2015 Nativis
Role: Principal Investigator
Voyager device for intracranial GBM
- 2015-2018 American Cancer Society
Role: Co-Investigator (UCSD PI: Carrie McDonald)
Restriction Spectrum Imaging (RSI) for Detecting and Monitoring Brain Tumors
- 2015-2020 NIH R01
Role: Co-Investigator (PI: Zhihui Wang, University of New Mexico)
An Integrated Multiscale Systems Modeling Approach to Identifying Drug Targets and Optimizing Target Combinations for Glioblastoma
- 2015-2020 NIH R01
Role: Co-Investigator (PI: Joe Ramos, University of Hawaii)
RSK-2 regulates integrin-mediated adhesion and migration
- 2015-2018 NASA Step 2 Application
Role: Co-Investigator (UCSD PI: Brandon R. Macias)
Mitigating headward fluid shifts and vision impairment with thigh cuffs during spaceflight
- 2015-2019 NIH R01
Role: Co-Investigator (PI: Shama Mirza, Medical College of Wisconsin)
Identifying GBM Survival Pathways via Proteomics that Guide to New Drug Targets
- Mechanistic Evaluation of OLIG2 Pathway Inhibitors
R21
- Past:**
- 1993-1994 Wistar Institute Taxin Brain Tumor Center Grant
Role: Co-Principal Investigator
Gene Therapy for Brain Tumors
- 1994 Wistar Institute Cancer Training Grant

- Role: Co-Principal Investigator
HSV for Brain Tumors
- 1994 Medical Scientist Training Program
University of Pennsylvania, School of Medicine
Role: Fellowship (Declined)
HSV for the treatment of brain tumors
- 1994-1999 National Research Service Award
NIMH/NIH
Role: Principal Investigator (\$)
Herpes Virus Therapy for Experimental Brain Tumors
- 2004-2006 NCI K12 Award: Clinical Research Training Program in Neuro-
Oncology
Role: Fellowship (\$)
Mentors: Patrick Y. Wen, Charles D. Stiles
- 2006-2007 Hagerty Award, Department of Neurosurgery, Brigham and Women's
Hospital
Role: Principal Investigator (\$)
Olig genes and role in human gliomas
- 2006-2007 Theodore Sapper/American Brain Tumor Association Grant
Role: Principal Investigator (\$)
RNAi inhibition of Olig genes in human gliomas
- 2006-2007 Accelerate Brain Cancer Cure Project Grant
Role: Principal Investigator (\$)
Notch inhibition in malignant gliomas
- 2006-2007 National Brain Tumor Foundation Oligodendroglioma Grant
Role: Principal Investigator (\$)
Targeting of Olig2 in oligodendrogliomas
- 2008 UCB Pharma
Role: Co-Principal Investigator
Co-PI: Jong Woo Lee, BWH
Efficacy of levetiracetam in brain tumor patients
- 2006-2009 Sontag Foundation Distinguished Scientist Grant
Role: Principal Investigator (\$)
An Olig2:P53 axis in glioblastoma
- 2008-2011 General Electric Healthcare
Role: Principal Investigator (\$)
Personalized Translational Platform for Biomarker Discovery in Brain
Tumors

- 2007-2012 Mentored Clinical Scientist Research Career Development Award (K08), NCI (\$) Role: Principal Investigator Role of Olig genes in human gliomagenesis
- 2011-2012 National Brain Tumor Society, David Cook Chair of Research. Role: Principal Investigator (\$92,000) Development of an *in silico* systems biology approach to personalizing glioblastoma therapy
- 2011-2012 E-therapeutics (\$100,000)
- 2011-2013 Nativis (~\$350,000)
- 2008-2011 General Electric Healthcare Role: Principal Investigator Personalized Translational Platform for Biomarker Discovery in Brain Tumors
- 2007-2012 Mentored Clinical Scientist Research Career Development Award (K08), NCI Role: Principal Investigator Role of Olig genes in human gliomagenesis
- 2010-2011 ARRA (CCSG), NIH Role: Principal Investigator Early stage physician scientist recruitment supplement
- 2011-2012 National Brain Tumor Society, David Cook Chair of Research. Role: Principal Investigator Development of an *in silico* systems biology approach to personalizing glioblastoma therapy
- 2011-2013 American Brain Tumor Association Role: CoPI (PI: Rajesh Mukthavarum) Identification of Potential OLG2 Inhibitors for the treatment of Glioblastoma
- 2011-2013 E-therapeutics Role: Principal Investigator Mechanims of dexanabinol effects in glioblastoma
- 2011-2013 UC San Diego Moores Cancer Center Pilot Funding Role: Principal Investigator Companion study to identify biomarkers of response to notch inhibitors in human glioma clinical trials

2011-2013	Salk Institute Cancer Center Pilot Funding Role: CoPI (PI: Inder Verma, Salk Institute) Targeting TDECs in Human Glioblastomas
2009-2014	James S. McDonnell Foundation Role: Principal Investigator Mechanisms of Sensitivity to PDGFR Inhibitors in Human Gliomas
2013-2014	Ambrx Inc. Role: Principal Investigator Anti-PSMA antibody-drug conjugate in glioblastoma
2013-2015	Voices Against Brain Cancer Role: Principal Investigator Development of GBM stem cell inhibitor
2013-2015	Voices Against Brain Cancer Role: Co-Investigator (UCSD PI: Milan Makale) A radiation activated prodrug-nanoparticle platform for brain cancer therapy
2014	Daisy Foundation Role: Co-Investigator (UCSD PI: Marlon Saria) An exploratory study of caregiver burden among caregivers of cancer patients with brain metastasis
2014	Ariad Pharmaceuticals Role: Principal Investigator Effect of Ponatinib on Glioblastoma
2014	E-therapeutics Role: Principal Investigator AntiCancer Effect of eTherapeutic compound in Gliomas
2014	Cellworks Role: Principal Investigator Predictive in Silico Modeling to Identify Effective Therapeutics for Glioblastoma
2014-2015	Kadmon Role: Principal Investigator KD019 – A Brain Penetrant Therapeutic For Glioblastoma

C. Report of Other Current Research Activities

Clinical Trials:

Principal Investigator

Dana-Farber Cancer Institute:

2007-2009 Phase 2, 2-Part, Multicenter, Open-Label Study to Evaluate the Safety, Tolerability, and Efficacy of CT-322 (Angiocept™) Monotherapy and Combination Therapy with Irinotecan in Patients with Recurrent Glioblastoma Multiforme
Sponsor: Adnexus Therapeutics, Inc.

2008-2009 Personalized Translational Platform for Biomarker Discovery in Brain Tumors
Sponsor: GE Healthcare (\$100,000)

UC San Diego:

2010-2011 Phase 2, 2-Part, Multicenter, Open-Label Study to Evaluate the Safety, Tolerability, and Efficacy of CT-322 (Angiocept™) Monotherapy and Combination Therapy with Irinotecan in Patients with Recurrent Glioblastoma Multiforme
Sponsor: Adnexus Therapeutics, Inc./BMS(\$)

2010-2011 A Phase I Study of MK-0752, a Notch Inhibitor, in Patients with Metastatic or Locally Advanced Breast Cancer and Other Solid Tumors (Merck Protocol No. 014-07)
Sponsor: Merck (PI of the brain tumor component) (\$)

2010-2013 A Randomized Placebo-Controlled Trial of Armodafinil (Nuvigil®) for Fatigue in Patients with Malignant Gliomas Undergoing Radiotherapy with or without Standard Chemotherapy Treatment
Sponsor: Dana Farber/Aventis (\$)

2010-2012 Cilengitide in Subjects With Newly Diagnosed Glioblastoma Multiforme and Unmethylated MGMT Gene Promoter - a Multicenter, Open-label Phase II Study, Investigating Two Cilengitide Regimens in Combination With Standard Treatment (Temozolomide With Concomitant Radiation Therapy, Followed by Temozolomide Maintenance Therapy).
Sponsor: EMD-Serono(\$)

2010-2013 A Prospective, Multi-center Trial of NovoTTF-100A Together With Temozolomide Compared to Temozolomide Alone in Patients with Newly Diagnosed GBM (EF-14)
Sponsor: Novocure(\$)

2010-2010 Single Patient Emergency Use of NovoTTF-100A
Sponsor: Novocure(\$)

- 2010-2014 A Phase II Study of PDGFR Kinase Inhibitor in Biomarker-Enriched Recurrent Malignant Gliomas
Sponsor: UCSD/Novartis(\$)
- 2010-2014 CTSU E3F05: Phase III Study of Radiation Therapy with or without Temozolomide for Symptomatic or Progressive Low-Grade Gliomas (E3F05)
Sponsor: CTUS/NCI/NIH(\$)
- 2011-2013 A Randomized, Double-blind, Controlled Phase IIb Study of the Safety and Efficacy of ICT-107 in Newly Diagnosed Patients With Glioblastoma Multiforme (GBM) Following Resection and Chemoradiation
Sponsor: ImmunoCellular Therapeutics (\$)
- 2011-2011 Compassionate Use of ICT-107 for a single patient
Sponsor: Immunocellular Therapeutics (\$)
- 2011-2013 A Phase I Ascending Dose Trial of the Safety and Tolerability of Toca 511 in Patients with Recurrent Glioblastoma Multiforme
Sponsor: Tocagen(\$)
- 2011-2013 Assessment of the Utility of the Radiotracer "FLT" in PET Imaging of de Novo Glioblastoma Multiforme (GBM): Monitoring Early Response to Chemotherapy
Sponsor: UCSD/Brigham & Women's Hospital(\$)
- 2011-2013 A Phase II, Multi-Center, Open-Label Study Evaluating GRN1005 Alone or in Combination with Trastuzumab in Breast Cancer Patients with Brain Metastases
Sponsor: Geron(\$)
- 2011-2013 A Phase II, Multi-Centre, Open-Label Study Evaluating the Efficacy and Safety of GRN1005 in Non-Small Cell Lung Cancer Patients with Brain Metastases
Sponsor: Geron(\$)
- 2011-2014 A Phase II Clinical Trial Evaluation DCVax®-Brain, Autologous Dendritic Cells Pulsed with Tumor Lysate Antigen for the Treatment of Glioblastoma Multiforme (GBM)
Sponsor: Northwest Biotherapeutics(\$)
- 2012-2013 A Phase I, Sequential Cohort, Open-Label, Dose-Escalation Study of the Safety and CNS Pharmacokinetics of Dexanabinol in Patients with Brain Cancer
Sponsor: UCSD/e-Therapeutics (\$)

2012-2013	A Phase 2 Study of LY2157299 Monohydrate Monotherapy or LY2157299 Monohydrate plus Lomustine Therapy compared to Lomustine Monotherapy in Patients with Recurrent Malignant Glioblastoma (JBAL) Sponsor: Eli Lilly (\$)
2012-2013	Phase 1b/2a Study Combining LY2157299 with Standard Temozolomide-based Radiochemotherapy in Patients with Newly Diagnosed Malignant Glioma (JBAI) Sponsor: Eli Lilly (\$)
2012-2014	A Continuation Protocol for Patients Previously Enrolled in a Study of Toca 511 Sponsor: Tocagen (\$)
2012-2013	Phase I/Randomized Phase II Double Blind Study of Either Dasatinib or Placebo Combined with Bevacizumab in Recurrent Glioblastoma (N0872) Sponsor: NCCTG/NCI/NIH (\$)
2012-present	A Prospective, non-randomized, concurrent control, open label, post-approval study of NovoTTF-100A in recurrent GBM patients (EF-19) Sponsor: Novocure (\$)
2012-present	An International, Randomized, Double-Blind, Controlled Study of Rindopepimut/GM-CSF with Adjuvant Temozolomide in Patients with Newly Diagnosed, Surgically Resected, EGFRvIII-positive Glioblastoma (The ACT IV Study) Sponsor: Celldex (\$)
2012-2014	Expanded Access treatment use of mifepristone for an individual patient with meningioma Sponsor: In-House (\$)
2013-2014	A Phase 2 Study BrUOG 244, PPX and Concurrent Radiation for Newly Diagnosed GBM without MGMT Methylation Sponsor: BrUOG/CTI (\$)
2013-present	Initial Phase I Study of WT2725 Dosing Emulsion in Patients with Advanced Malignancies Sponsor: Sunovion (\$)
2013-present	N0577: Phase III Intergroup Study of Temozolomide Alone versus Radiotherapy with Concomitant and Adjuvant Temozolomide versus Radiotherapy with Adjuvant PCV Chemotherapy in Patients with 1p/19q Co-deleted Anaplastic Glioma Sponsor: UCSD/ECOG (\$)

- 2014-present A Phase II Study to Evaluate the Efficacy, Safety, and CNS Pharmacokinetics of the HER Family Inhibitor Dacomitinib in Progressive Brain Metastases
Sponsor: UCSD/Pfizer (\$)
- 2014-present An Open-Label, Single-Arm, Phase II Study to Evaluate the Efficacy, Safety and CNS Exposure of G-202 in Patients with Recurrent or Progressive Glioblastoma
Sponsor: UCSD/Genspera (\$)
- 2014-present A Phase II, Open –Label, Multi-Center Study of Ang1005 in Participants with Recurrent High-Grade Gliomas
Sponsor: Angiochem (\$)
- 2014-present An exploratory study of caregiver burden among caregivers of cancer patients with brain metastasis
Sponsor: In-House
Role: Co-Investigator, Co-PI: Marlon Saria
- 2014-present An exploratory study of caregiver burden among caregivers of cancer patients
Sponsor: In-House
Role: Co-Investigator, Co-PI: Marlon Saria
- 2014-present A Phase I Dose Escalation and CNS Pharmacokinetic Study of Afatinib in Recurrent Gliomas and Brain Metastases
Sponsor: Boehringer Ingelheim (\$)
- 2014-present Alliance A221101: A Phase III Randomized, Double-Blind Placebo-Controlled Study of Armodafinil to Reduce Cancer-Related Fatigue in Patients with Glioblastoma Multiforme
- 2014-present ANG1005-CLN-04: A Phase II, Open-Label, Multi-Center Study of ANG1005 in HER2+ Breast Cancer Patients with Progressive/Recurrent Brain Metastases
Sponsor: Angiochem (\$)
- 2014-present A Phase 1b/2a Study of the Combination of KD019 and Trastuzumab in Subjects with HER-2-Positive Metastatic Breast Cancer
Sponsor: Kadmon (\$)
- 2015-present Study I3Y-MC-JPBO: A phase 2 study of abemaciclib in women with brain metastases secondary to stage IV estrogen receptor positive breast cancer
- 2015-present A Phase II Study of NovoTTF-100A Alone and Combined with Temozolomide in Patients with Low-Grade Gliomas

Sponsor: UCSD/Novocure (\$)

Co-Investigator

Dana-Farber Cancer Institute:

- 2003-2009 Phase II Trial of Oral Thalidomide, Celebrex, Etoposide, and Cytosine in Adult Patients with Relapsed or Progressive Malignant Glioma (01-278)
Sponsor: Schering-Plough/Celgene
- 2003-2009 A Phase II Open-Label Study of Oral, Continuous, Once Daily PTK787/ZK 222584 in Patients with Von Hippel-Lindau Disease (VHL) and Hemangioblastoma (HB) (02-103)
Sponsor: Novartis
- 2003-2009 Edotecarin vs Temozolomide or Carmustine (BCNU) or Lomustine (CCNU) in Patients with Glioblastoma Multiforme that has Progressed/Recurred after Alkylator-based (Neo)adjuvant Chemotherapy (03-205)
Sponsor: Pharmacia/Pfizer
- 2003-2009 ZD1839 Plus Temozolomide for Treatment of Malignant Brain Tumors (01-287)
Sponsor: NABTC/NCI/NIH
- 2003-2009 Phase I/II Trial of CCI-779 in Patients with Malignant Glioma (01-156)
Sponsor: NCI/CTEP/NABTC
- 2003-2009 Phase II Study of Temozolomide, Thalidomide and Celebrex in Patients with Newly Diagnosed Glioblastoma Multiforme in the Post Radiation Setting (00-302)
Sponsor: Schering-Plough/Celgene
- 2003-2009 CPT-11 and Temozolomide for Recurrent Glioma (00-269)
Sponsor: NABTC/NCI/NIH
- 2003-2009 A Phase I/II Trial of R115777 in Patients with Recurrent Malignant Glioma (00-015)
Sponsor: NABTC/NCI/NIH
- 2003-2009 A Phase II Study of Prolonged Daily Temozolomide for Low-Grade Glioma (01-111)
Sponsor: Schering-Plough
- 2003-2009 Phase II Trial of STI571 (NSC 716051) in Patients with Recurrent Meningioma (03-048)

Sponsor: NCI/NIH

- 2003-2009 A Phase I Trial of R115777 With Radiation Therapy and Temozolomide in Patients with Newly Diagnosed Glioblastoma Multiforme (02-247)
Sponsor: NABTC/NCI/NIH
- 2003-2009 A Phase I/II Trial of OSI-774 In Subjects with Recurrent Malignant Gliomas and Malignant Gliomas Post Radiation Therapy (02-171)
Sponsor: NABTC/NCI/NIH
- 2003-2009 ZD1839 for Treatment of Recurrent or Progressive Malignant Astrocytoma or Glioblastoma and Recurrent or Progressive Meningioma: A Phase II Study with a Phase I Component for Patients Receiving EIAED's (01-221)
Sponsor: NABTC/NCI/NIH
- 2004-2009 A Biomarker and Phase II study of GW 572016 in Recurrent Malignant Glioma (04-428)
Sponsor: NABTC/NCI/NIH
- 2004-2009 Companion Pharmacokinetic Study to DFCI Protocol 04-428 (A Biomarker and Phase II study of GW572016 in Recurrent Malignant Glioma [NABTC 04-01]) (05-282)
Sponsor: GlaxoSmithKline, Inc
- 2004-2009 Phase II Trial of EMD 121974 for Recurrent Glioblastoma: A Clinical Trial with Tissue Correlates of Response (04-276)
Sponsor: NCI/NIH/NABTC
- 2004-2009 A Phase I/II Trial of Depsipeptide in Patients with Recurrent High Grade Gliomas (04-193)
Sponsor: NABTC/NCI/CTEP/NIH
- 2004-2009 A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study of Temozolomide or Placebo Added to Whole Brain Radiation Therapy for the Treatment of Brain Metastases from Non-Small Cell Lung Cancer (04-064)
Sponsor: Schering-Plough
- 2004-2009 A Phase III Randomized, Double-Blind Study Comparing Human Corticotropin-Releasing Factor (hCRF) to Placebo for Control of Symptoms Associated with Peritumoral Brain Edema in Patients with Malignant Brain Tumors Who Require Chronic Administration of High-Dose Dexamethasone (04-171)
Sponsor: Neurobiological Technologies, Inc.

- 2005-2009 Phase I Study of High Dose Gefitinib (Iressa) for the Treatment of Carcinomatous Meningitis in Adult Patients with Non-Small Cell Lung Cancer and Known or Suspected EGFR Mutations (05-403)
Sponsor: Astra Zeneca
- 2005-2009 An Open-label, Multi-Center, Phase II Study to Evaluate the Activity of Patupilone (EPO906), in the Treatment of Recurrent or Progressive Brain Metastases in Patients with Non-Small Cell Lung Cancer (05-393)
Sponsor: Novartis Pharmaceuticals Sponsored
- 2005-2009 A Phase I Study of Vorinostat (Suberoylanilide Hydroxamic Acid [SAHA]) in Combination with Temozolomide in Patients with Malignant Gliomas (05-371)
Sponsor: NABTC/NCI/NIH
- 2005-2009 A Phase II Study of Rituximab and Temozolomide in Recurrent Primary CNS Lymphoma (05-325)
Sponsor: NABTC/NCI/NIH
- 2005-2009 A Phase I/II Study of Lenalidomide and Radiation Therapy in Patients with Newly-Diagnosed Glioblastoma (05-222)
Sponsor: Celgene Corporation
- 2005-2009 A Phase I/II Study of OSI-774 (Erlotinib) and CCI-779 (Temsirrolimus) in Patients with Recurrent Malignant Glioma (05-037)
Sponsor: NABTC/NCI/NIH
- 2005-2009 A Phase I Sequential Ascending Dose Trial of AP23573 in Patients with Progressive or Recurrent Malignant Glioma (05-035)
Sponsor: ARIAD, Inc.
- 2005-2009 A Phase II Study of Safety and Efficacy of Oral Gimatecan (ST1481) Administered to Patients with Glioblastoma Multiforme Cancer (05-291)
Sponsor: Sigma-Tau
- 2005-2009 A Phase II Study of AZD2171 in Recurrent Glioblastoma (05-254)
Sponsor: NCI
- 2005-2009 A Phase II Study of A Phase II Study of Rituximab and Temozolomide in Recurrent Primary CNS Lymphoma (05-325)
Sponsor: NABTC/NCI
- 2005-2009 Intensive Chemotherapy and Immunotherapy in Patients with Newly Diagnosed Primary CNS Lymphoma:CALGB 50202 (05-063)
Sponsor: CALGB/NCI

- 2006-2009 A Phase I Study of MK-0752, a Notch Inhibitor, in Patients with Metastatic or Locally Advanced Breast Cancer and other Solid Tumors (05-058)
Sponsor: Merck& Co., Inc
- 2006-2009 A Phase II, Multicenter, Randomized, Non-Comparative Clinical Trial to Evaluate the Efficacy and Safety of Bevacizumab Alone or in Combination with Irinotecan for Treatment of Glioblastoma Multiforme in First or Second Relapse (06-142)
Sponsor: Genentech, Inc
- 2006-2009 Phase I/II Studies of BAY 43-9006 (Sorafenib) in Combination with OSI-774 (Erlotinib), R115777 (Tipifarnib) or CCI-779 (Temsirrolimus) in Patients with Recurrent Glioblastoma Multiforme or Gliosarcoma (06-101)
Sponsor: NABTC
- 2006-2009 A Randomized Phase 3 Study of Enzastaurin versus Lomustine in the Treatment of Recurrent, Intracranial Glioblastoma Multiforme (06-017)
Sponsor: Eli Lilly and Company
- 2006-2009 Phase II Single Arm Trial of VEGF Trap in Patients with Recurrent Temozolomide-Resistant Malignant Gliomas (06-266)
Sponsor: NABTC
- 2006-2009 Protocol AVF3708g: A Phase II, Multi-center, Randomized, Non-Comparative Clinical Trial to Evaluate the Efficacy and Safety of Bevacizumab Alone or in Combination with Irinotecan for Treatment of Glioblastoma Multiforme in First or Second Relapse (06-142)
Sponsor: Genentech
- 2006-2009 Phase I and Phase II, Open-Label, Multi-Center Trials of Pazopanib in Combination with Lapatinib in Adult Patients with Relapsed Malignant Glioma (06-220)
Sponsor: GlaxoSmithKline, Inc
- 2006-2009 A Phase II Study of Imatinib Mesylate plus Hydroxyurea in the Treatment of Patients with Recurrent/Progressive Meningioma (06-)
Sponsor: Novartis
- 2006- 2009 A Multicenter, Open-label, Single Agent, Two-stage Phase 2 Study to Evaluate the Efficacy and Safety of AMG 102 in Subjects with Advanced Malignant Glioma (06-215)
Sponsor: Amgen

UC San Diego:

- 2010-present Phase III Double-Blind Placebo-Controlled Trial of Conventional Concurrent Chemoradiation and Adjuvant Temozolomide plus/minus Bevacizumab in Patients with Newly Diagnosed Glioblastoma (RTOG 0825)
Sponsor: RTOG/NCI/NIH
- 2012-2014 A Randomized Phase I/II Study of ABT-888 in Combination with Temozolomide in Recurrent (Temozolomide Resistant) Glioblastoma (RTOG 0929)
Sponsor: RTOG/NCI/NIH
- 2013-present A Phase III Trial of Post-Surgical Stereotactic Radiosurgery (SRS) Compared with Whole Brain Radiotherapy (WBRT) for Resected Metastatic Brain Disease (RTOG 1270)
Sponsor: RTOG/NCI/NIH
- 2013-present A Phase I, First-in-Human, Dose Escalation Trial of MSC2363318A, a Dual p70S6K/Akt Inhibitor, in Subjects with Advanced Malignancies
Sponsor: EMD Serono
- 2014-present N1174 Phase I/Comparative Randomized Phase II Trial of TRC105 plus Bevacizumab versus Bevacizumab in Bevacizumab-Naïve Patients with Recurrent Glioblastoma Multiforme
Sponsor: Alliance
- 2014-2015 A Randomized Phase II Trial of Myeloablative versus Non-myeloablative Consolidation Chemotherapy for Newly Diagnosed Primary CNS B-cell Lymphoma (CALGB 51101)
PI: Wieduwilt
Sponsor: xxx
- 2015-present UCI 14-58: A Phase 1, Multicenter, Open-label, Dose-escalation, Combination Study of Marizomib and Bevacizumab in Bevacizumab-Naive Subjects with WHO Grade IV Malignant Glioma
- 2015-present UCI 13-14: A Randomized, Double-blinded, Placebo-controlled Phase 2, Study of (ERC1671/GM-CSF/Cyclophosphamide) +Bevacizumab vs. (Placebo Injection/Placebo Pill) +Bevacizumab in the Treatment of Recurrent/Progressive, Bevacizumab Naive Glioblastoma Multiforme and Gliosarcoma Patients (WHO grade IV malignant gliomas, GBM)

Other Research Studies:

Dana-Farber Cancer Institute:

- 2002-2009 Histological Studies of Progressive Multifocal Leukoencephalopathy (PML) (2002-P-000579)
Sponsor: In-House
Role: Co-Investigator
- 2003-2008 Validation of 1D, 2D, 3D and Volumetric Parameters in
Neuroradiologic Response Assessment in Gliomas (03-260)
Sponsor: In-House
Role: Principal Investigator
- 2003-2008 Prognostic Factors in Adult Brainstem Gliomas (03-362)
Sponsor: In-House
Role: Principal Investigator
- 2003-2009 Analysis of the Hypercoagulable State Associated with Malignant
Glioma (98-226)
Sponsor: In-House
Role: Co-Investigator
- 2003-2009 A Prospective National Study to Molecularly and Genetically
Characterize Human Gliomas: The Glioma Molecular Diagnostic
Initiative (03-021)
Sponsor: NABTC/NABTT/NCI/NIH
Role: Co-Investigator
- 2005-2008 A Prospective, Multinational, Multicenter, Double-Blind,
Randomized, Active-Controlled Trial to Compare the Effects of Lotrel
(Amlodipine/Benazepril) to Benazepril and Hydrochlorothiazide
Combined on the Reduction of Cardiovascular Morbidity and
Mortality in Patients with High Risk Hypertension: Avoiding
Cardiovascular Events through COMbination Therapy in Patients
Living with Systolic Hypertension (ACCOMPLISH)
Sponsor: Novartis
Role: Clinical Endpoint Committee Adjudicator for Stroke/TIA events
- 2005-2009 Validation Assay for MGMT Testing in Discarded Glioblastoma
Multiforme Tumor Specimens (05-230)
Sponsor: BWH Pathology and Neurosurgery
Role: Co-Investigator
- 2005-2009 Companion Pharmacokinetic Study To DFCI Protocol 04-428: A
Biomarker And Phase II Study of GW572016 in Recurrent Malignant
Glioma (05-282)
Sponsor: GlaxoSmithKline, Inc
Role: Co-Investigator
- 2005-2009 Cellular Localization and Immune Response to JC Virus (2005-P-
000300)

	Sponsor: In-House Role: Principal Investigator
2006- 2009	Outcomes of Patients with NF1 and Gliomas (2006-P-000422) Sponsor: In-House Role: Co-Investigator
2007- 2009	Retrospective Study To Evaluate the Pathology of Malignant Gliomas Treated With PDGFR Inhibitors Sponsor: In-House Role: Principal Investigator
2008- 2009	Ventricoperitoneal Shunt in Patients with Neurological Diseases (2008P-000301) Sponsor: In-House Role: Principal Investigator
<i>UC San Diego:</i>	
2010-2013	Neurological Outcomes of Cancer (100936) Sponsor: In-House Role: Principal Investigator
2011-present	A Retrospective Analysis of the Efficacy of Seizure Prophylaxis in Brain Tumors (110171) Sponsor: In-House Role: Principal Investigator
2011-present	Retrospective Analysis of Prognostic Factors in Cancer Patients with Neurological Diseases (110551) Sponsor: In-House Role: Principal Investigator
2012-2013	Cellular Localization and Immune Response in Progressive Multifocal Leukoencephalopathy (PML) Sponsor: In-House Role: Principal Investigator
2010-present	Investigation of factors that affect patterns of care and survival for brain and other central nervous system cancer patients throughout San Diego County and California. Sponsor: In-House Role: Principal Investigator
2012-present	Investigation of factors that affect outcomes in cancer patients throughout San Diego County and California. Sponsor: In-House Role: Principal Investigator

2013-present UC San Diego Neurosurgery Operative Specimen Tissue Bank
Sponsor: In-House
Role: Co-Investigator

D. Report of Teaching

1. Local contributions

Invited teaching presentations:

2004 Invited Speaker, Neuro-Oncology Conference, Massachusetts General Hospital, Volumetric Analysis of Gliomas, Boston, Massachusetts (Neurologists, residents-8, 3 hours preparation, 1.5 hours contact)

2005 Invited Speaker, Neuro-Oncology Conference, Massachusetts General Hospital, Cancer Stem Cells in Gliomas, Boston, Massachusetts (Neurologists, residents-8, 3 hours preparation, 1.5 hours contact)

2006 Invited Speaker, Neuro-Oncology Conference, Massachusetts General Hospital, Role of Olig2 in Gliomagenesis, Boston, Massachusetts (Neurologists, residents-8, 3 hours preparation, 1 hour contact)

2006 Invited Speaker, Department of Medicine morning report for residents, Discussion of a patient with metastatic lung cancer and paraneoplastic opsoclonus-myoclonus syndrome (Medical residents-20, 3 hours preparation, 1.5 hour contact)

2007 Invited Speaker, Department of Medical Oncology, Brigham and Women's Hospital morning pathology conference for staff/fellows/residents, Discussion of a patient with atypical meningioma (Fellows-15, residents-10, 2 hour preparation, 1 hour contact)

2008 Invited Speaker, Partners Neurology Residency Program Neuroscience Seminar Series, Cancer Stem Cells and Role in Brain Tumors, (Residents-20, 3 hour preparation, 1 hour contact)

2008 Invited Speaker, Dana-Farber Cancer Institute Lymphoma Conference, Therapy considerations in lymphomatous meningitis (Physicians-5, nurses-10, 5 hour preparation, 1 hour contact)

2009 Invited Speaker, Brigham and Women's Hospital, Department of Neurology Neuroscience Seminar Series, Therapeutic advances in Neuro-Oncology (Physicians-15, medical students-7, 5 hour preparation, 1 hour contact)

2009 Invited Speaker, UCSD Neuro-Oncology Conference, Advances in Glioma Biology and Therapeutics (Physicians-6, 5 hour preparation, 1.5 hours contact)

2011 Invited Speaker, UCSD Hematology/Oncology Conference, Brain Tumors (Physicians-35, 5 hour preparation, 1.5 hours contact)

2012 Invited Speaker, Biomedical and Clinical Research Seminar, Identification of response biomarkers in glioblastoma (Physicians/scientists-20, 5 hour preparation, 1.5 hours contact)

- 2012 Invited Speaker, Geriatric Psychiatry Seminar, Neurology of Brain Tumors (Physicians-8, 3 hour preparation, 1.5 hours contact)
- 2012 Invited Speaker, Community Health Summer Program, UCSD, Brain Tumor, La Jolla, CA (Physicians-2, High School student ~40; 3 hour preparation, 1 hours contact)

Continuing medical education courses:

Harvard Medical School:

- 2004-2006 Lecturer, Neurology for Non-neurologist course (10 hours preparation, 1 hour contact per year)
- 2004-2006 Lecturer, Intensive Review of Neurology (16 hours preparation, 1 hour contact per year)
- 2005-2006 Lecturer, Tumors of the Central Nervous System (16 hours preparation, 1 hour contact per year)

UC San Diego:

- 2010 Facilitator, Small Literature Group, 12 students from medical and pharmacy school to review, present and discuss medical research papers to encourage critical thinking (30 hours preparation, 18hrs direct contact with student)
- 2011 Speaker, Brain Tumors: 1st Annual Collaborative Care Conference, Overview of Brain Tumors and Clinical Management
- 2011 Speaker, Brain Tumors: 1st Annual Collaborative Care Conference, Novel Clinical Trials in Brain Tumors
- 2012 Speaker, Brain Tumors: 2nd Annual Collaborative Care Conference Overview of Brain Cancers and Clinical Management
- 2012 Speaker, Brain Tumors: 2nd Annual Collaborative Care Conference Overview of Brain Cancers
- 2012 Speaker, Brain Tumors: 2nd Annual Collaborative Care Conference Novel Clinical Trials in Brain Cancers

Advisory and supervisory responsibilities:

- | | | |
|-----------|--|----------------|
| 2004-2009 | Neurology clinic preceptor, ad hoc basis
Brigham and Women's Hospital | 10 hours/year |
| 2004-2009 | Neurology ward and consult services attending
Brigham and Women's Hospital | 80 hours/year |
| 2004-2009 | Teaching oncology fellows
Center for Neuro-Oncology Clinic,
Dana-Farber Cancer Institute | 200 hours/year |
| 2005-2009 | Advising technicians, post-docs, and graduate students
Department of Cancer Biology
Dana-Farber Cancer Institute | 400 hours/year |
| 2006 | Partners Neurology Career Planning Retreat | 4 hours/year |

2006-2007	Career Development in Basic Research in Neurology for residents Advising post-docs and technicians Functional and Molecular Imaging Center Brigham and Women's Hospital	200 hours/year
2009-present	Advising post-docs, student and technicians Translational Neuro-Oncology Laboratories UC San Diego, Moores Cancer Center	200 hours/year

Advisees/Trainees:*Clinical:*

2004-2005	Jan Drappatz	Neuro-Oncologist, UPMC
2005	Vassilios Markos	Oncologist, Greece
2005-2006	April Fitzsimmons	Neuro-Oncologist, MGH
2005-2006	Jeannie Grier	Neuro-Oncologist, Fallon Clinic
2005-2006	Milan Chheda	Neuro-Oncology Fellow, Partners
2005-2007	Andrew Norden	Neuro-Oncology Fellow, Partners
2005-2007	Andrew Chi	Neuro-Oncology Fellow, Partners
2006	Fetullah Gerin	Medical Student, Marmara University, Istanbul, Turkey
2006	Ozden Narin	Medical Student, Hacettepe University, Ankara, Turkey
2006	Denis Nastic	Medical Student, Umeå University, Umeå, Sweden
2006	Maria Sundström	Medical Student, Umeå University, Umeå, Sweden
2006-2008	Michelle Monje	Neurology Resident, Partners
2006-present	Jorg Dietrich	Neurology Resident, Partners
2007	Serra Akar	Medical Student, Hacettepe University, Ankara, Turkey
2007-2008	Jaime Imitola	Neurology Resident, Temple University
2007-2008	Angela Wabulya	Neurology Resident, Johns Hopkins
2008	Will Namwoo Cho	Undergraduate, Harvard University
2008	Michael Rasper	University of Munich, Germany Bayer Fellowship Program
2009	Ganesh Shankar	Medical Student, Harvard
2011	Christine Matthews	NP student clinical research preceptorship
2011	Veronica Bradley	UCSD Regents Scholar Research Initiative (RSRI) mentor program.
2012	Esther Wee	Pharmacy student preceptorship
2012	Tiffany Taylor	Biomedical Sciences Graduate Student
2012-2014	Matthew Wieduwilt, MD	NCLAM, National Council for Leadership in Academic Medicine early-career mentoring for junior faculty Assistant Professor, UC San Diego

2012-2014	David Piccioni, MD, PhD	Assistant Professor, UC San Diego
2014-2015	Jennifer Sassman	Doctor of Nursing Practice Student, University of San Diego
2015	Tony Yen	Ph.D. Student, UCSD Bioengineering UC San Diego

Research:

2006- 2007	Eva Fast	Ph.D. Graduate School, Boston University
2007- 2009	Chrissy Rooney	Research Technician, DFCI
2007-2009	Ryung S. Kim	Assistant Professor, Worcester Polytechnic Institute, MA
2008-2010	Jai Grewal	Neuro-Oncologist, NY
2008-2009	Stephan Ulmer	NeuroRadiologist, Germany
2008	Jong Woo Lee	Epilepsy Attending, Brigham and Women's Hospital
2008	Anastasia Krymkowski	Summer Fellow, NCI-Integrative Cancer Biology Program (ICBP)
2008-2010	Pankajavalli Ramakrishnan	Neurology Resident, Partners
2008-2010	Ning Lin	Neurosurgery Resident, BWH
2009	Laura K. Rosow	Medical Student, Harvard
2006-2009	Ana Borrás	Research Scientist, DFCI
2010-2013	Hubert Pan	Medical Student, UC San Diego
2010-2014	Ying Chao	Medical Student, SUNY
2011	Ali Mahta	Neurology Resident, Temple University
2012	Amy Rommel	Post-doc, Salk Institute
2013	Andreas Javier	Visiting fellow, UERMMMCI College of Medicine, Philippines
2013	Christine Som	Visiting Nurse Research (Phillipines)
2013	Jacqueline Bannach	Visiting Research Student (Germany)
2013	Heather Barnes	Undergrad, UCSD
2013	Kabir Chawla	Undergrad, UCSD
2013	Nikita Akkala	Undergrad, UCSD
2013	Navin Kesari	Medical Student, Rush University
2013-2014	Ali Shenasa	Undergrad, UCSD
2014-2014	Michael Qiu	Undergrad, UCSD
2014	Soumya Kurnool	Undergrad, UCSD
2014	Maria Ginzburg	Senior, High School
2014	Fatima Z. Housni	McNair Scholar, UCSD

Ph.D Thesis Advisor/Committee:

2009-2015	Marlon Saria	UCLA, School of Nursing
2010	Dayu Teng	UCSD, Department of Bioengineering
2011-2012	Navin R. Mahadevan	UCSD, School of Medicine
2010-present	Robert Saddawi-Konefka	UCSD, School of Medicine

2013-present	Jason Del Rio	UCSD, Biomedical Sciences
2013-present	Jeffrey Rodvold	UC San Diego
2015	Monika Polewski	City of Hope

Post-Doctoral Advisor:

2009-2013	Sandra Pastorinio	University of Hawaii
2009-present	Pengfei Jiang	UC San Diego
2010-2013	Valentina Fogal	UC San Diego
2010-present	Milan Makale	UC San Diego
2010-present	Sandeep Pingle	UC San Diego
2014-present	Ivan Babic	UC San Diego

MPH Thesis Advisor/Committee:

2010-2011	Courtney Corle	San Diego State University, School of Public Health
2011-2012	Toni Rush	SDSU, School of Public Health
2012-2013	Katrina Flores	SDSU, School of Public Health
2013-2014	Jacob T. Rosalez	SDSU, School of Public Health
2014-2015	Natasia Courchesne	SDSU, School of Public Health

MA Thesis Advisor/Committee:

2010	Krithika Rao	Vellore Institute of Technology, India
2011	Bill Kemnitzer	MAS Clinical Research, UC San Diego
2012-2013	Rohit Saklecha	MS in Biology, UC San Diego
2014-2015	Manshi V. Mallepogu	MAS Clinical Research, UC San Diego

2. Regional, National, and International Contributions

Regional:

1996	Invited Speaker, Wistar Institute, Monica H. M. Shander Presentation, Studies of a Neuroattenuated Herpes Simplex Virus-1 in the Murine CNS, Philadelphia, Pennsylvania
1998	Invited Speaker, University of Pennsylvania School of Medicine Annual M.D.-Ph.D. Retreat, Herpes Simplex Virus for Treatment of CNS Tumors, Philadelphia, Pennsylvania
2001	Invited Speaker, Chief's Rounds, Boston Society of Neurology and Psychiatry, Mononeuritis Multiplex, Boston, Massachusetts
2001	Invited Speaker, 925 th Annual Meeting of Boston Society of Neurology and Psychiatry, Superficial Siderosis, Boston, Massachusetts
2004	Invited Speaker, Annual Brain Tumor Society Symposium, Late Effects of Treatment for Adults, Newton, Massachusetts
2006	Grand Rounds Speaker, Neurology-Neurosurgery Grand Rounds, Tufts-New England Medical Center, From Neural Stem Cells to Brain

- Tumors, Boston, Massachusetts
- 2007 Invited Speaker, Dana-Farber/Brigham and Women's Neuro-Oncology Conference, Translational platform for Neuro-Oncology, Boston, Massachusetts
- 2007 Invited Speaker, Adnexus, Inc. Gliomas 101: Brain tumors, stem cells, and therapeutics, Waltham, Massachusetts
- 2007 Invited Speaker, Dana-Farber/Brigham and Women's Neuro-Oncology Conference, Bench to Bedside and Back: Feedback Loops in Neuro-Oncology, Boston, Massachusetts
- 2008 Invited Speaker, Complex Biosystems Modeling Laboratory, Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Imaging of Human Tumor Stem Cells, Charlestown, Massachusetts
- 2008 Grand Rounds Speaker, Neurosurgery Grand Rounds, Brigham and Women's Hospital, Translational Studies in Brain Tumors, Boston, Massachusetts
- 2008 Invited Speaker, Worcester Polytechnic Institute, Optimizing Response Assessment Criteria for Brain Tumors, Worcester, Massachusetts
- 2008 Invited Speaker, Pain and Palliative Care Seminar, Dana-Farber Cancer Institute, Role of levetiracetam in chemotherapy-induced nausea/vomiting, Boston, Massachusetts
- 2008 Invited Speaker, Oncology and Stem Cell Seminar Series, Personalizing treatments for brain tumors through an integrated multimodal translational platform, Dana-Farber Cancer Institute, Boston, Massachusetts
- 2009 Invited Speaker, Center for Neurologic Diseases: Multiple Sclerosis Center, Neurological Complications of Novel Therapeutics: Case of Progressive Multifocal Leukoencephalopathy, Brigham and Women's Hospital, Boston, Massachusetts
- 2009 Invited Speaker, Brigham and Women's Hospital Neuro-Oncology Conference, Glioma Biomarker Project, Brigham and Women's Hospital, Boston, Massachusetts
- 2009 Invited Speaker, Neurosciences Retreat, Personalizing Treatments for Brain Tumors, University of California, San Diego, La Jolla, California
- 2009 Invited Speaker, Tumor Growth, Invasion, and Metastasis Program Annual Retreat, A Short Tour of Neuro-Oncology, University of California, San Diego, La Jolla, California
- 2009 Invited Speaker, Tumor Board, Progress in Neuro-Oncology and Opportunities to Improve Outcomes, Sharp Mary Birch Hospital for Women, San Diego, California
- 2009 Invited Speaker, Moores Cancer Center Research Meeting, Advances in Glioma Biology and Therapeutics, University of California, San Diego, San Diego, California
- 2009 Invited Speaker, Brain Tumor Board Special Seminar, Translational Neuro-Oncology: Opportunities to Improve Outcomes, University of California, Irvine, Irvine, California

- 2009 Invited Speaker, Moores Cancer Center Annual Scientific Faculty Retreat: Molecular basis of cancer therapy and prevention, University of California, San Diego, Genetics and targeted therapeutics in neuro-oncology, San Diego, California
- 2009 Invited Speaker, Seminar, Celgene, Targeted therapeutics in neuro-oncology, San Diego, California
- 2009 Grand Rounds Speaker, Department of Neurosciences, University of California, San Diego, Scientific and clinical advances in the management of brain tumors, San Diego, California
- 2009 Invited Speaker, Seminar, Translational Neuro-Oncology, Ludwig Institute for Cancer Research, San Diego, California
- 2009 Invited Speaker, Brain Tumor Board Seminar, Update on Glioma Treatments, City of Hope, Duarte, California
- 2010 Invited Speaker, Department of Hematology-Oncology, Naval Medical Center, San Diego, Translational Neuro-Oncology, San Diego, California
- 2010 Invited Speaker, Board of Directors Meeting, Neuro-Oncology Program Update, UCSD Moores Cancer Center, La Jolla, California
- 2010 Invited Speaker, Hematology/Oncology Section Meeting, Introduction to Neuro-Oncology, VA Medical Center, La Jolla, California
- 2010 Invited Speaker, Philippine Nursing Association, Bench to Bedside and Back: Implications to Personalized Medicine in Neuro-Oncology, Paradise Valley Hospital, San Diego, California
- 2010 Invited Speaker, San Diego Academy of Neurosurgery, Advancing Brain Tumor Treatments, San Diego, California
- 2010 Invited Speaker, Neuro-Oncology Conference, Overview of Neuro-Oncology, Moores UCSD Cancer Center, La Jolla, California
- 2010 Invited Speaker, Moores Infusion Center Conference, CNS Complication of Cancer, Moores UCSD Cancer Center, La Jolla, California
- 2010 Invited Speaker, Neuropathology Minisymposium, Accelerating Brain Cancer Treatments with Biomarker Discovery, UC San Diego, La Jolla, California
- 2011 Invited Speaker, Neurosurgery Grand Rounds, Accelerating Brain Cancer Treatments with Biomarker Discovery, UC San Diego, La Jolla, California
- 2011 Invited Speaker, Neuro-Oncology Family Information Day, Personalized brain cancer treatments across the age spectrum, Rady Children's Hospital, San Diego, California
- 2011 Invited Speaker, Neurology Grand Rounds, Accelerating Treatments for Brain Cancer, Cedars-Sinai Medical Center, Los Angeles, California
- 2011 Invited Speaker, NanoScience and Emerging Technology in Cancer Research. Encapsulation of Staurosporine Using a Novel Intraliposomal Stabilization Strategy: Therapeutic Efficacy in Glioma, UC San Diego, La Jolla, California
- 2012 Invited Speaker, Translational Neuro-oncology, Tocagen, San Diego, California

- 2012 Invited Speaker, Cancer Therapeutics Training Program (CT²) for oncology drug development, Targeting growth factor signaling in glioblastoma, University of California, San Diego, La Jolla, California
- 2012 Invited Speaker, Translational Neuro-Oncology, Tocagen, San Diego, California
- 2012 Invited Speaker, Update on Neuro-Oncology, San Diego Neurology Society, La Jolla, California
- 2012 Invited Grand Rounds Speaker, Advances in Neuro-Oncology: Opportunities to Improve Understanding of Tumor Biology, Department of Radiology, University of California, San Diego, La Jolla, California
- 2012 Invited Speaker, Neuro-Oncology Family Information Day, Personalized brain cancer treatments across the age spectrum, Rady Children's Hospital, San Diego, California
- 2012 Invited Speaker, Genomics Institute of the Novartis Research Foundation Seminar, Overview of Translational Neuro-Oncology: Opportunities for Novel Discovery and Drug Development, La Jolla, California
- 2012 Invited Speaker, Cancer Stem Cell Symposium, Brain Tumor Stem Cell Inhibition in Clinical Trials, Sanford Consortium for Regenerative Medicine, La Jolla, California
- 2013 Invited Speaker, Cancer Therapeutics Training Program (CT²) for oncology drug development, Development of New Drugs for Glioblastoma, University of California, San Diego, La Jolla, California
- 2013 Invited Speaker, NF Symposium, House Ear Institute/House Research Institute and NF California, Introduction to UCSD and Update on Optic Pathway Gliomas, Los Angeles, California
- 2013 Invited Speaker, Neuroscience Grand Rounds, Loma Linda University, Translational Neuro-Oncology: Opportunities to Improve Outcomes, Loma Linda, California
- 2013 Organizer and Speaker, NF Symposium in San Diego, Introduction to UC San Diego NF Program, La Jolla, California
- 2013 Invited Speaker, Solid Tumor Therapeutics Program, New and Innovative Clinical Trials in Neuro-Oncology, University of California, San Diego, La Jolla, California
- 2015 Invited Speaker, Neurosciences Grand Rounds, Translational Neuro-Oncology: Accelerating Discovery and Improving Outcomes, John Wayne Cancer Institute, Santa Monica, California
- 2015 Invited Speaker, Neurology Grand Rounds, Dawn of Precision Medicine in Neuro-Oncology, University of California, Irvine, Irvine, California
- 2016 Invited Speaker, Lido Family Office Investor Symposium, Treating Brain Cancer: A Medical and Business Perspective on the Challenges and Opportunities, Los Angeles, California
- 2016 Invited Speaker, Grand Rounds, Dawn of Precision Medicine in Neuro-Oncology, Disney Cancer Center, Burbank, California

2016 Invited Speaker, Brain Tumor Board, Using Biomarkers to Choose Therapies for Resistant Cancers, Disney Cancer Center, Burbank, California

National:

2005 Invited Speaker, Schering-Plough Oncology North American Temodar Workshop, Interim Results of a Phase II Study of Prolonged Daily Temozolomide for Low-Grade Glioma, Atlanta, Georgia

2006 Invited Speaker, Accelerate Brain Cancer Cure Scientific Retreat, Beyond Angiogenesis Inhibitors – High-Throughput Phenotypic In Vitro/In Vivo Screens for the Identification of Small Molecule Modulators of Glioma Cell Migration and Invasion, Catalina, Arizona

2007 Invited Speaker, Sontag Foundation Annual Retreat, Role of Olig2 in Glioblastoma, St. Augustine, Florida

2007 Grand Rounds Speaker, Neurology Grand Rounds, Ohio State University Medical Center, Olig2 dependence in glioblastoma, Columbus, Ohio

2007 Grand Rounds Speaker, Neurology-Neurosurgery Grand Rounds, Mayo Clinic, An Olig2:p53 signaling axis for glioblastoma stem cells, Jacksonville, Florida

2007 Visiting Professor, Neurosurgery Grand Rounds, Washington University School of Medicine, Olig2:p53 signaling axis for glioblastoma stem cells, St. Louis, Missouri

2007 Grand Rounds Speaker, Neurology Grand Rounds, Northwestern University, Feinberg School of Medicine, Role of Olig2 in glioblastoma stem cells, Chicago, Illinois

2007 Grand Rounds Speaker, Clinical Neuroscience Grand Rounds, Yale University School of Medicine, Olig2:p53 axis for glioblastoma stem cells, New Haven, Connecticut

2007 Grand Rounds Speaker, Neurosurgery Grand Rounds, University of Utah, School of Medicine, Olig2 dependence in glioblastoma stem cells: Translational Studies in Neuro-Oncology, Salt Lake City, Utah

2008 Invited Speaker, Sylvester Comprehensive Cancer Center, University of Miami, Miller School of Medicine, Olig2 and Translational Studies in Neuro-Oncology, Miami, Florida

2008 Invited Speaker, Multimodality Management of Brain Tumors Conference, University of Texas, Memorial Hermann Hospital, Advances in Neuro-Oncology, Houston, Texas

2008 Keynote Speaker, Multimodality Management of Brain Tumors Conference, University of Texas, Memorial Hermann, Stem Cells and Brain Tumors: New Research Perspectives, Houston, Texas

2008 Visiting Professor, Neurological Sciences Grand Rounds, University of Nebraska Medical Center, Translational Studies in Gliomas, Omaha, Nebraska

2008 Invited Speaker, Sontag Foundation Annual Retreat, Olig2-P53 Signaling Axis in Glioblastoma, Jacksonville, Florida

- 2008 Invited Speaker, Oncological Sciences Seminar, Huntsman Cancer Institute, University of Utah, School of Medicine, Olig2 and Cell Cycle Regulation in Glioblastoma, Salt Lake City, Utah
- 2008 Grand Rounds Speaker, Neurology/ Neurosurgery Grand Rounds, University of Utah, Department of Neurology, Translational Studies in Neuro-Oncology, Salt Lake City, Utah
- 2008 Invited Speaker, Brain Tumor Center Seminar Series, Memorial Sloan Kettering Cancer Center, Olig2 and translational explorations in gliomas, New York, New York
- 2008 Invited Speaker, Oncology Seminar, Saint Michael's Medical Center, Therapy Considerations in Lymphomatous Meningitis, Newark, New Jersey
- 2008 Grand Rounds Speaker, Neuroscience Grand Rounds, Medical University of South Carolina, Recent Progress in Neuro-Oncology, Charleston, South Carolina
- 2008 Invited Speaker, Moores UCSD Cancer Center, University of California San Diego, Neuro-Oncology: At the Crossroads of Neuroscience, Cancer Biology and Development, San Diego, California
- 2009 Invited Speaker, Neuroscience Seminar Series, University of California San Diego, Translational Neuro-Oncology: Personalizing Treatments for Brain Tumors, San Diego, California
- 2009 Visiting Professor, Neurology Grand Rounds, University of Virginia, Stem Cells, Gliomagenesis, and Neoplastic Meningitis: Opportunities for Personalized Therapies, Charlottesville, Virginia
- 2009 Invited Speaker, Oncology Seminar, Lehigh Valley Hospital, Advances in the Management of Recurrent Glioblastoma, Allentown, Pennsylvania
- 2009 Invited Speaker, Sontag Foundation Annual Retreat, Update on Olig2 and Discovering Biomarkers of Treatment Response in Glioblastoma, Amelia Island, Florida
- 2009 Invited Speaker, Oncology Seminar, University of North Carolina, Scientific and Clinical Advances in Neuro-Oncology, Chapel Hill, North Carolina
- 2009 Invited Speaker, Neurology Grand Rounds, Vanderbilt University, Biological and Therapeutic Advances in Neuro-Oncology, Nashville, Tennessee
- 2009 Invited Speaker, The Science of BioBanking: Investing in the Future, Cambridge Healthtech Institute, Living Tissue Banks: The Road to Personalizing Treatments for Brain Tumors, Philadelphia, Pennsylvania
- 2009 Invited Speaker, Oncology Seminar, Neurological Surgery PC, Therapy Considerations in Lymphomatous Meningitis, Great Neck, New York
- 2009 Invited Speaker, Oncology Seminar, University of Louisville, Lymphomatous Meningitis and Advances in Glioma Therapies, Louisville, Kentucky

- 2009 Invited Speaker, Oncology Seminar, Community Cancer Care South, Therapy Considerations in Lymphomatous Meningitis, Indianapolis, Indiana
- 2010 Invited Speaker, NF1 Think Tank, Children's Tumor Foundation, Translating lessons from adult malignant brain tumors to neurofibromatosis research, New York, New York
- 2010 Co-facilitator, Workshop on *Genes and Oncology Research*, Public Responsibility in Medicine and Research (PRIM&R) Annual Meeting, San Diego, CA
- 2010 Grand Rounds Speaker, Department of Neurology, University of Oklahoma Health Sciences Center, Neuro-Oncology: Biomarker Discovery and Individualized Therapies, Oklahoma City, Oklahoma
- 2011 Invited Speaker, Biodesign Institute, Arizona State University, Clinical and Molecular Heterogeneity in Brain Cancers, Phoenix, Arizona
- 2011 Invited Speaker, Hematology and Medical Oncology Conference, Oregon Health and Science University, Progress in Neuro-Oncology, Portland, Oregon
- 2011 Invited Speaker, Neurosurgery Grand Rounds, University of Washington Medical Center, Improving Outcomes in Neuro-Oncology: Tumor Heterogeneity and Targeted Therapies, Seattle, Washington
- 2011 Invited Speaker, California Biologics Education Alliance, 2011 Biomedicine Roundtable, Safety of Biologics, La Jolla, CA
- 2012 Invited Speaker, Eradicating Brain Cancer, Yale University, Ongoing Trials using Small Molecule Inhibitors of Growth Promoting Pathways, New Haven, Connecticut
- 2012 Session Moderator, Eradicating Brain Cancer, Yale University, Current Therapies and Novel Agents in Clinical Trials, New Haven, Connecticut
- 2012 Invited Speaker, Cleveland Clinic Rose Ella Burkhardt Brain Tumor & Neuro-Oncology Center Rounds, Accelerating Discovery and Improving Outcomes in Neuro-Oncology: Tumor Heterogeneity and Targeted Therapies, Cleveland, Ohio
- 2012 Invited Speaker, Rhode Island Brain and Spine Foundation, Challenges in the Management of Glioblastoma, Providence, Rhode Island
- 2012 Invited Speaker, Neurology Grand Rounds, Brown University, Translational Neuro-Oncology: Opportunities to Improve Outcomes, Providence, Rhode Island
- 2012 Invited Speaker, Neurology Resident Teaching Conference, Brown University, Overview of Neuro-Oncology, Providence, Rhode Island
- 2012 Guest Speaker, Patient and Caregiver Conference/Awareness Day, New Treatment Options for Brain Cancer Patients, The Elliott Foundation, Seattle, WA
- 2012 Featured Speaker, Atlantic Meets the Pacific Conference, Panel on barriers facing the scientific community. Moderated by Steve Clemons, Washington editor at large of *The Atlantic*.

- 2012 Invited Speaker, Transforming tomorrow, today conference, National Brain Tumor Society 2012 Summit, Development of an *in silico* systems biology approach to personalizing GBM therapy, Boston, CA
- 2012 Invited Speaker, Brain Tumor Funders Collaborative, Multidisciplinary Research in Neuro-Oncology, BTFC workshop Changing the Future of Glioblastoma: Understanding the Pre and Post Treatment Milieu. The Physiology of Tumor Growth: How do alterations in the structural integrity of the tissue, the blood vessels, and the blood brain barrier contribute to the pre and post treatment environment? A Multi-Disciplinary Approach. St. Louis, Missouri
- 2012 Visiting Lecturer, Tisch Cancer Institute, Mount Sinai Medical Center, Translational Neuro-Oncology: Discovering Novel Targets and Approaches for Brain Cancers, New York, New York
- 2013 Invited Speaker, Cancer Biology Program, University of Hawaii Cancer Center, Translational Neuro-Oncology: Opportunities to Personalize Outcomes, Honolulu, Hawaii
- 2013 Invited Speaker, Translational Center of Excellence, Abramson Cancer Center, Perlman School of Medicine, University of Pennsylvania, [Advances in Brain Tumor Therapy](#), Philadelphia, Pennsylvania
- 2013 Invited Speaker, University of North Dakota, School of Medicine, Translational Neuroscience: Opportunities to Accelerate Discovery and Improve Outcomes, Fargo, North Dakota
- 2013 Invited Speaker, Neurosurgery Grand Rounds, Washington University School of Medicine, Translational Neuro-Oncology: Opportunities to Accelerate Discovery and Improve Outcomes, St. Louis, Missouri
- 2013 Invited Speaker, Molecular Profiling in the Clinical Management of Primary and Secondary Brain Tumors, Tucson, AZ
- 2013 Invited Speaker, Molecular Profiling in the Clinical Management of Primary and Secondary Brain Tumors, Phoenix, AZ
- 2013 Invited Speaker, Center for Cancer Research, National Institutes of Health, Translational Neuro-Oncology: Opportunities to Accelerate Discovery and Improve Outcomes, Bethesda, MD
- 2013 Keynote Speaker, 3rd Focus on Brain Cancer: Discovery to Recovery Conference, Abramson Cancer Center, Perlman School of Medicine, University of Pennsylvania, [Advances in Brain Tumor Therapy](#), Philadelphia, Pennsylvania
- 2013 Invited Speaker, ABTA Alumni Research Network (AARN) meeting, The Art of Persuasion – Convincing Others to Invest in You and Your Lab, Chicago, Illinois
- 2013 Invited Panelist, ABTA Alumni Research Network (AARN) meeting, Experiences with the NIH Scientific Review Processes, Chicago, Illinois
- 2013 Speaker, Sigma-Tau Pharmaceuticals, Enhanced Therapy and Treatment Options for Lymphomatous Meningitis, San Francisco, California
- 2013 Invited Speaker, First Annual Translational and Comparative Research Summit, Translational Neuro-Oncology: Opportunities to Accelerate Discovery and Improve Outcomes, Seattle, Washington

- 2014 Invited Speaker, Neurosurgery Conference, Oregon Health and Science University, Translational Neuro-Oncology: From Bench to Bedside and Back, Portland, Oregon
- 2014 Invited Speaker, 24th Annual Frontiers in Wyoming Medicine, Wyoming Medical Center, Recent Progress in Brain Tumors, Casper, Wyoming
- 2014 Invited Speaker, 2nd Principal Investigators' Summit of Genelux Corporation, Memorial Sloan Kettering Cancer Center, Phase I/II Clinical Trials in Brain Cancers Using GL-ONC1, New York City, New York
- 2014 Invited Speaker, Neurology Grand Rounds, University of Texas at Austin, Translational Neuro-Oncology: Opportunities to Accelerate Discovery and Improve Outcomes, Austin, Texas
- 2014 Invited Speaker, Drug Resistance Evolution Meeting, Kavli Institute for Theoretical Physics, Personalizing therapies for brain cancers, Santa Barbara
- 2014 Grand Rounds Speaker, Neurology Grand Rounds, University of Texas at Houston, Translational Neuro-Oncology: Opportunities to Accelerate Discovery and Improve Outcomes, Houston, Texas
- 2014 Invited Speaker, Neurology Grand Rounds, University of Southern California, Translational Neurosciences: Accelerating Discoveries and Treatments in Brain Cancer, Los Angeles, California
- 2014 Invited Speaker, Angiochem ANG1005- CLN-04 Investigator Meeting, Management of Brain Metastases, Chicago, Illinois
- 2014 Invited Speaker, Partners in Care Conference, 16th Annual Brain Tumor Update and 5th Annual International Symposium on Long-Term Control of Metastases to the Brain and Spine, Primary Brain Tumor Treatment, Las Vegas, Nevada
- 2014 Invited Speaker, Using Molecular Targets to Guide Therapy: An Evidence-Guided Approach to Personalized Medicine, Las Vegas, Nevada
- 2014 Brain Tumor Study Group Speaker, Dardinger Center for Neuro Oncology, Ohio State University Medical Center, Developing New Approaches to Brain Cancers, Columbus, Ohio
- 2015 Special Seminar Speaker, Medical College of Wisconsin, Translational Neuro-Oncology: Opportunities to Accelerating Discovery and Improving Outcomes, Milwaukee, Wisconsin
- 2015 Invited Speaker, NantHealth, 2nd Annual Omics Network Summit, NextGen Clinical Trials in Neuro-Oncology, Los Angeles, California
- 2015 Invited Speaker, Xcenda, Challenging Cases in Oncology, Case 8: Recurrent Glioblastoma, San Diego, California
- 2015 Keynote Speaker, HerpesViruses: Pathogenesis and Cancer, Oncolytic Viral Therapy for Brain Cancer, Philadelphia, Pennsylvania
- 2015 Podium Presenter, Life Science Innovation Northwest Conference, Nativis Voyager System for Cancer, Seattle, Washington
- 2015 Invited Speaker, Breakthroughs in Medicine and Technology Summit 2015, Brain Cancer: Personalized Medicine, Innovative Technologies and Novel Drug Development, Jackson Hole, Wyoming

- 2015 Invited Speaker, Xcenda, Challenging Cases in Oncology, Case 2: Recurrent Glioblastoma, Data on Treatment Options for Recurrent Glioblastoma, Las Vegas Nevada
- 2015 Chair, Session on Indian Society for Neuro-Oncology, Progress and Contributions to Neuro-Oncology from India Lunch Session, 20th Annual Meeting of the Society for Neuro-Oncology, San Antonio, Texas
- 2015 Invited Speaker, Tumor profiles of brain metastases from NSCLC, breast cancer and melanoma, 20th Annual Meeting of the Society for Neuro-Oncology, San Antonio, Texas
- 2015 Platform Speaker, Tumor treating fields with chemotherapy compared to chemotherapy alone in glioblastoma patients at first recurrence: a post-hoc analysis of the EF-14 trial, 20th Annual Meeting of the Society for Neuro-Oncology, San Antonio, Texas
- 2015 Invited Speaker, CSF pharmacokinetics and pharmacodynamics in brain cancer patients on high-dose erlotinib, 20th Annual Meeting of the Society for Neuro-Oncology, San Antonio, Texas
- 2015 Invited Speaker, A phase I dose escalation and central nervous system (CNS) pharmacokinetic study of dexanabinol in patients with brain cancer, 20th Annual Meeting of the Society for Neuro-Oncology, San Antonio, Texas
- 2015 Invited Speaker, CSF pharmacokinetics and pharmacodynamics in brain cancer patients on high-dose erlotinib, 20th Annual Meeting of the Society for Neuro-Oncology, San Antonio, Texas

International:

- 2003 Keynote Speaker, Founders Award, American Academy of Neurology, Prognostic Factors in Adult Brainstem Gliomas, Honolulu, Hawaii
- 2006 Grand Rounds Speaker, Ross University School of Medicine, Cancer Stem Cells and Brain Tumors, Portsmouth, Dominica
- 2006 Invited Speaker, Research Day Medical Symposium, Ross University School of Medicine, Neuro-Oncology: From Molecular Genetics to Targeted Treatments, Portsmouth, Dominica
- 2007 Invited Speaker, The Science of Prevention: New Insights into the Importance of Intra-CSF Prophylaxis, Stem Cells, the SVZ, and Gliomagenesis, St. Thomas
- 2007 Session Moderator, Chemotherapeutics II, The 2007 International Conference on Glioma Research and Therapy, Boston, MA
- 2007 Platform Speaker, Society for Neuro-Oncology, Phase II Study of Prolonged Daily Temozolomide for Low-Grade Glioma, Dallas, Texas
- 2008 Invited Speaker, Brain Tumor Research Center Grand Rounds, Hospital for Sick Kids, Role of Olig2 in human gliomagenesis, Toronto, Canada
- 2008 Invited Speaker, Neuroscience Grand Rounds, Toronto Western Hospital, Translational Studies in Neuro-Oncology, Toronto, Canada

- 2008 Invited Speaker, Clark H. Smith Brain Tumor Center Seminar, University of Calgary, Towards Personalized Treatment of Brain Tumors, Calgary, Canada
- 2009 Guest Faculty, Chongqing International Stroke and Neurological Forum, Neurological Society of Chinese Medical Association, Novel Treatment Approaches in Neuro-Oncology, Chongqing, China
- 2009 Visiting Professor, Jingzhou International Neurological Forum, Yangtze University, Progress in Neuro-Oncology, Jingzhou, China
- 2009 Visiting Professor, Guangdong International Neurological Forum, Guangdong 999 Brain Hospital, Jinan University, Translational Neuro-Oncology, Guangzhou, China
- 2009 Guest Faculty, Mumbai Neuro-Oncology Group, Emerging Management Strategies for Malignant Gliomas, Mumbai, India
- 2009 Visiting Professor, Tata Memorial Hospital, Current Status and Future Directions for Malignant Gliomas, Mumbai, India
- 2009 Guest Faculty, Inaugural Conference of the Neuro-Oncology Society of India, Conceptual and Clinical Progress in Neuro-Oncology, Delhi, India
- 2009 Guest Faculty, Inaugural Conference of the Neuro-Oncology Society of India, Chemotherapy in Low Grade Gliomas, Delhi, India
- 2009 Guest Faculty, Inaugural Conference of the Neuro-Oncology Society of India, How to do Translational Studies in Brain Tumors to Discover Biomarkers and Improve Survival, Delhi, India
- 2009 Keynote Speaker, 2009 Beijing International Neurological Forum, Military General Hospital of Beijing, Clinical and Scientific Progress in the Multidisciplinary Management of Brain Tumors, Beijing, China
- 2010 Guest Faculty, Annual Conference of the Indian Society of Neuro-Oncology, Biomarker Based Clinical Trials in Adult and Pediatric Neuro-Oncology, Chennai, India
- 2010 Guest Faculty, Annual Conference of the Indian Society of Neuro-Oncology, Update on Genomics and Signaling Aberrations from the Cancer Genome Atlas, Chennai, India
- 2011 Invited Speaker, Preuss Foundation Seminar on Glioma Biology: Recent Advances at the Edge of Discovery, Value of Human Xenografts, La Jolla, CA
- 2011 Guest Faculty, Annual Conference of the Indian Society of Neuro-Oncology, Where are we with targeted molecular therapy, Kolkata, India
- 2011 Keynote Speaker, 2011 Jinling Forum and Chinese Neuro-Oncology Conference, Standard of Care in Glioblastoma, Nanjing City, China
- 2011 Keynote Speaker, 2011 Chinese Society of Clinical Oncology Meeting, Chemotherapy in the Management of Malignant Gliomas, Xiamen, China
- 2012 Keynote Speaker, Advancements in Oncology-Navigate the New, Recent Advances in First Line Therapy in GBM and their Implications in Clinical Practice, Trivandrium, India

- 2012 Guest Faculty, 4th Annual Conference of the Indian Society of Neuro-Oncology, Response Biomarkers and Biomarker-Based Clinical Trials in Neuro-Oncology, Bangalore, India
- 2012 Invited Speaker, Medanta-The Medicity, Anti-angiogenic therapies for glioblastoma, New Delhi, India
- 2012 Invited Speaker, Neuro-Oncology Conference, Anti-angiogenic therapies for glioblastoma, Hyderabad, India
- 2012 Invited Speaker, Graduate School of Nursing, Chiba University, Brain Tumor Clinical Trial with Interdisciplinary Team Approach in UCSD Chiba, Japan
- 2012 Invited Speaker, The 3rd Global COE Symposium, Institute of Advanced Biomedical Engineering & Science, Graduate School of Medicine, Dept. of Neurosurgery, Neurological Institute, Tokyo Women's Medical University, Translational Neuro-Oncology: Accelerating Personalized Treatments for Brain Cancers, Tokyo, Japan
- 2012 Invited Speaker, Japanese Society for Neuro-Oncology, Tumor Treating Fields: A New Treatment Modality for Neuro-Oncology, Hiroshima, Japan
- 2012 Invited Speaker, Tata Memorial Hospital, New Devices in Neuro-Oncology, Mumbai, India
- 2012 Invited Speaker, Krishna Institute Medical Sciences, Advances in Neuro-Oncology, Hyderabad, India
- 2012 Invited Speaker, Omega Hospital, Advances in Neuro-Oncology, Hyderabad, India
- 2012 Invited Speaker, Apollo Hospitals, Advances in Neuro-Oncology and Opportunities for New Drugs and Devices, Hyderabad, India
- 2013 Invited Speaker, PDGFR Signaling and Resistance, Asian Society Neuro-Oncology/Indian Society Neuro-Oncology meeting, Mumbai, India
- 2014 Invited Speaker, Developing Novel Therapeutics for Brain Cancers, Etherapeutics, Oxford, UK
- 2014 Invited Speaker, Role of chemotherapy in low grade gliomas, Indian Society Neuro-Oncology meeting, Lucknow, India
- 2014 Invited Speaker, Anti-VEGF therapies in high grade gliomas, Indian Society Neuro-Oncology meeting, Lucknow, India
- 2014 Invited Speaker, Indian Medical Association, Update on Brain Cancer Therapies, Valentis Cancer Hospital, Meerut, India
- 2014 Invited Speaker, Indian Medical Association, Molecular Profiling and Personalized Cancer Treatments, Valentis Cancer Hospital, Meerut, India
- 2014 Invited Speaker, Development of novel small molecules that target glioblastoma stem cells, 20th International Conference on Brain Tumor Research and Therapy (ICBRT20), Lake Tahoe, California
- 2014 Invited Speaker, Department of Anatomical Pathology, Marmara University, Progress in Neuro-Oncology, Istanbul, Turkey
- 2014 Invited Speaker, Premeeting Course on Multidisciplinary management of high-grade glioma. Epidemiology and etiology of high-grade

- gliomas, 11th Meeting of the Asian Society Neuro-Oncology, Istanbul, Turkey
- 2014 Keynote Speaker, In silico development of glioblastoma stem cell inhibitor, 11th Meeting of the Asian Society Neuro-Oncology, Istanbul, Turkey
- 2014 Keynote Speaker, Deterministic *in silico* modeling predicts sensitivity of glioblastoma to targeted therapy, 11th Meeting of the Asian Society Neuro-Oncology, Istanbul, Turkey
- 2015 Platform Speaker, Updated Results of the Phase III Trial of TTFIELDS in Newly-Diagnosed GBM, Indian Society Neuro-Oncology meeting, Kochi, India
- 2015 Invited Speaker, Working Together Towards the Ultimate Outcome: Brain Tumor Cure, Improving Outcomes Through Collaboration: Lessons Learned in Neuro-Oncology, University of the Philippines Open University, Manila, Phillipines
- 2015 Invited Speaker, Chemotherapy for Brain Metastases, 12th Meeting of the Asian Society Neuro-Oncology, Manila, Phillipines
- 2015 Invited Speaker, Developing Outcomes Research Studies in ASNO, 12th Meeting of the Asian Society Neuro-Oncology, Manila, Phillipines
- 2015 Invited Speaker, What's new in neuro-oncology? The Challenges of Managing Patients with Neurological Complications of Cancer, Concurrent Nursing Symposium at 12th meeting of the Asian Society for Neuro-Oncology, Manila, Phillipines
- 2015 Invited Speaker, Immuno-Oncology: The New Paradigm, Initiative of Patients Rights, Mexican Senate Hearing, Mexico City, Mexico
- 2015 Invited Speaker, Clinical Review of the Therapeutic Benefits of Pritumumab, 19th International Conference on Human Antibodies and Hybridomas, University of Lausanne/CHUV, Lausanne, Switzerland
- 2015 Invited Speaker, Preuss Foundation Seminar on Changing the Game: Opportunities and Challenges for a New Generation of Primary Brain Tumor Therapeutics, Clinical Development of Pritumumab for Brain Cancers, La Jolla, CA
- 2016 Invited Speaker, Sidra Medical and Research Center, Precision Medicine: Road to More Effective Brain Cancer Therapies, Doha, Qatar
- 2016 Platform Speaker, Tumor treating Fields: Unconventional or evolving standard- Results of NOVO TTF study, Indian Society Neuro-Oncology meeting, Hyderabad, India
- 2016 Invited Speaker, Emerging systemic therapies for challenging and refractory benign brain tumors, Indian Society Neuro-Oncology meeting, Hyderabad, India
- 2016 Invited Speaker, Precision Medicine Approaches in Brain Cancers, Shanghai Center for Systems Biomedicine, Shanghai Jiao Tong University, Shanghai, China

3. Description of major curriculum offerings, teaching cases or innovative educational programs developed

2001-2003

I conceived and implemented the idea of a shared neurology database (Neuro1) for the Partners Neurology Residency program. This along with other technologies have supported the development of a growing knowledge base, which includes digitally stored and archived journal articles, clinical neuroimaging data, videos of patients and conferences, patient databases, images from weekly neuropathology conferences, and resident handbooks. Even after my departure from residency, this database continues to be used daily by our Neurology residents and staff in diverse ways for teaching and clinical care purposes. This site has now been transformed into a wiki site by successive generations of residents.

E. Report of Clinical Activities

I am the Chair of Department of Translational Neuro-Oncology and Neurotherapeutics at the John Wayne Cancer Institute and building a department focuses on collaborative model of research to accelerate improved outcomes in brain cancers. I am also Director of Neuro-Oncology at Providence Saint John's Health Center that includes administration and supervision of all personnel (physicians, fellows, nurses, nurse practitioners, clinical research coordinators, support staff) involved in the care of inpatients and outpatients seen by the neuro-oncology service.

I see patients in the Neuro-Oncology Clinic at Providence Saint John's Health Center. I care for approximately 300 patients with complex neurological, neuro-oncological, and neurosurgical problems in the outpatient clinic, and when admitted to the hospital. I teach oncology clinical fellows, neurology residents, nurses, nurse practitioners and medical students during my clinical services.

I organize and direct the weekly multidisciplinary Brain Tumor Board devoted to clinical management of patients. Additionally, I also organize a weekly didactic neuro-oncology conference where we have both basic science and clinical talk on various topics relevant to neuro-oncology with speakers within and outside of JWCI.

PART III: Bibliography

Original Articles: *Senior/corresponding author

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gliomas: Efficacy, toxicity, and patterns of recurrence. *Neurology* 2008;70(10):779-87. PMID: 18316689

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Educational Material:

2004	Neurology for Non-Neurologist	Course syllabus
2004	Intensive Review of Neurology	Course syllabus
2004	Society for Neuro-Oncology	Course syllabus
2005	Neurology for Non-Neurologist	Course syllabus
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2005	Tumors of the Central Nervous System	Course syllabus
2006	Neurology for Non-Neurologist	Course syllabus
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2006	Tumors of the Central Nervous System	Course syllabus
2011	Brain Tumors: 1 st Annual Collaborative Care Conference	Course syllabus
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Advisors: Nigel W. Fraser, John Q. Trojanowski, Virginia M.Y. Lee