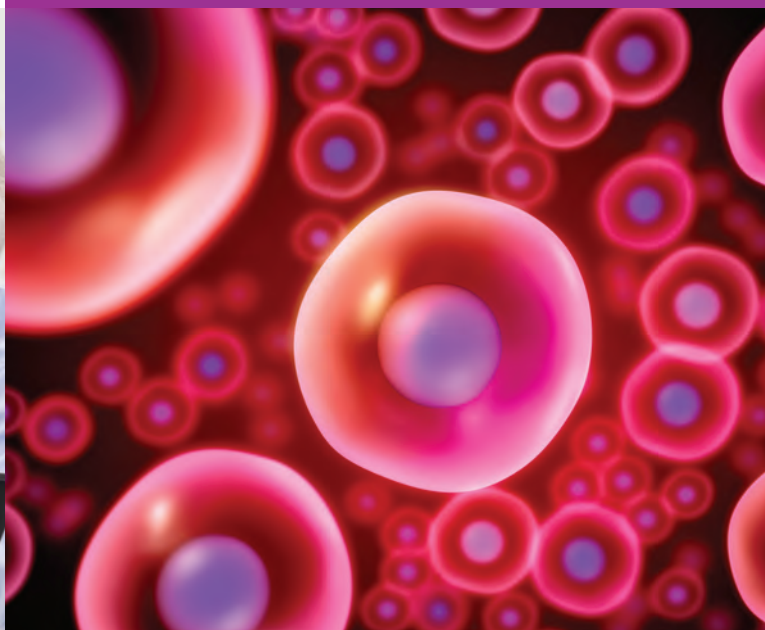




American
Brain Tumor
Association



FUNDING
RESEARCH
INFORMING
CARE



“ Thank you so much for taking the time to speak with me. As you know, a brain tumor diagnosis can be extremely frightening on so many levels. Knowing that there are individuals there to help families and patients navigate this type of crisis is truly a blessing. ”

Supportive Care

With so many lives impacted by a brain tumor diagnosis, the ABTA remains dedicated to providing comprehensive information and support services to patients, families and care partners navigating a brain tumor diagnosis. The ABTA also acts as a resource for health care professionals serving the brain tumor community and advocates on behalf of patients and their loved ones for improved access to the best possible brain tumor treatments and options for care.

Where compassion meets commitment, the brain tumor community trusts ABTA to provide valuable support and the most current, comprehensive brain tumor information, including:

- Publications and resources
 - General brain tumor information
 - In-depth tumor and treatment information
 - Comprehensive support resources
- Compassionate support by a dedicated team of licensed health care professionals
- Regional meetings for patients, survivors, family members and care partners
- Updates on brain tumor care and treatment through ABTA's newsletter, monthly electronic communications and regular website postings

There are several ways to contact the American Brain Tumor Association:



CareLine: 800.886.ABTA (2282)
Email: abtacares@abta.org
Web: www.abta.org
Facebook: [Facebook.com/theABTA](https://www.facebook.com/theABTA)
Twitter: [Twitter.com/theABTA](https://twitter.com/theABTA)

“ THANK YOU for all of your information and the support I have received through the years. My grandson passed away awhile ago. He was 27 and first diagnosed when he was 7. We appreciated your news updates and information. ”

Research Funding



The American Brain Tumor Research Funding Program encourages career development in the field of brain tumor research, explores innovative research and seeks collaborative funding opportunities.

2011 – 2012 ABTA RESEARCH FUNDING

FELLOWSHIPS

The American Brain Tumor Association Basic Research Fellowship is a two-year fellowship designed to encourage talented scientists early in their careers to enter, or remain in, the field of brain tumor research.

Christian Badr, PhD

Massachusetts General Hospital, Charlestown, MA
“Multiplex Assay to Monitor Viability, Self-Renewal and Differentiation of Glioma Stem Cells”

Myriam Chaumeil, PhD

University of California San Francisco, San Francisco, CA
“Imaging Response to P13K Pathway Inhibition in Glioblastoma Models”

Tooba Cheema, PhD

Massachusetts General Hospital, Boston, MA
“Oncolytic Herpes Simplex Virus Immunotherapy for Glioma Stem Cells”

Andrew S. Chi, MD, PhD

Massachusetts General Hospital, Boston, MA
“An Aberrant Developmental Transcription Network in Glioblastoma Stem Cells Identified by Genome-wide Histone Modification Analysis”

Kevin Choe, MD, PhD

University of Texas Southwestern Medical Center, Dallas, TX
“A Genome-wide Search for Mediators of Glioma Initiation and Progression”

Daniel Ciznadija, PhD

Memorial Sloan-Kettering Cancer Center, New York, NY
“CyclinD1-CDK4: A Neurologically Destructive Cell-cycle Axis Mediating Gliomagenesis”

Scott John Diede, MD, PhD

Fred Hutchinson Cancer Research Center, Seattle, WA
“The Role of DNA Methylation in Pediatric Medulloblastoma”

Vivian Gama, PhD

University of North Carolina at Chapel Hill, Chapel Hill, NC
“Cytochrome c Degradation as a Common Survival Mechanism of Neurons and Brain Tumors”

Amelie Griveau, PhD

University of California San Francisco, San Francisco, CA
“BRAF-Neural Precursor Interactions in Pediatric Malignant Gliomagenesis”

Christian Grommes, PhD

Memorial Sloan-Kettering Cancer Center, New York, NY
“Genetic Analysis of Primary CNS Lymphoma”

David Infanger, PhD

Cornell University, Ithaca, NY
“Microenvironmental Control of Glioblastoma Stem Cells in the Perivascular Niche”

Dohoon Kim, PhD

Whitehead Institute for Biomedical Research, Cambridge, MA
“Identification of Metabolic Activities Which Are Specifically Required During Brain Tumor Formation”

Youngmi Kim, PhD

Lerner Research Institute, Cleveland Clinic Foundation, Cleveland, OH
“Develop Novel Molecular Probes Targeting Glioblastoma Multiforme Stem Cells (GSCs) for Targeted Therapy Using Systematic Evolution of Ligands by Exponential Enrichment (SELEX)”

Jisook Lee, PhD

University of California San Diego, San Diego, CA
“Understanding the Role of Focal Adhesion Kinase (FAK) in Glioma-induced Remodeling of the Blood-Brain Barrier”

Sichen Li, PhD

University of California Los Angeles, Los Angeles, CA
“Mechanism of Glioblastoma Radiosensitization and Tumor Suppression by Mutant Isocitrate Dehydrogenase 1 (IDH1)”

Yan Li, PhD

University of California San Francisco, San Francisco, CA
“Characterization of Gliomas Using Ultra High Field MR Spectroscopic Imaging”

Casey Maguire, PhD

Massachusetts General Hospital, Charlestown, MA
“Monitoring Multiple Biological Processes in Response to Glioma Therapy Using Bioluminescence Imaging”

Lisa Matlaf, PhD

California Pacific Medical Center Research Institute, San Francisco, CA
“Identification and Characterization of a Potential HCMV Oncomodulatory Protein in Glioblastoma”

Ilwoo Park, PhD

University of California San Francisco, San Francisco, CA
“Development of an Early Biomarker of MGMT Activity and Response to Temozolomide Treatment Using Hyperpolarized ¹³C MR Metabolic Imaging”

Teodoro Pulvirenti, PhD

Sloan-Kettering Institute, New York, NY
“Wnt 5A and the Proliferation of the Glioma Cells”

Maria Sambade, PhD

University of North Carolina at Chapel Hill, Chapel Hill, NC
“New Therapeutic Combinations in Brain Metastasis”

David Schonberg, PhD

Lerner Research Institute, Cleveland Clinic Foundation, Cleveland, OH
“Autocrine Growth Factor Signaling in Glioblastoma Stem Cells”

Monica Venere, PhD

Lerner Research Institute, Cleveland Clinic Foundation, Cleveland, OH
“Targeting Mitosis in Glioblastoma Stem Cells”

Karen Vrijens, PhD

St. Jude Children's Research Hospital, Memphis, TN
“Small Molecule BMP Agonists as Therapeutic Agents for Brain Tumors”

Leanne Wybenga-Groot, PhD

Hospital for Sick Children, Toronto, Ontario, Canada
“Understanding LNX-Mediated Regulation of Oncogenic Signaling in Brain Tumors”

Jian Zhang, PhD

Columbia University, New York, NY
“Role of mRNA splicing Regulators in Glioblastoma”

“ This ABTA fellowship motivates me to keep working harder and with more passion in search of a cure for cancer. ”



“ The act of writing and being awarded the fellowship provided a wonderful confidence boost. Additionally, it provided me reassurance that the topic I am pursuing is considered important and valuable by some of the most respected brain tumor researchers in the world. ”

TRANSLATIONAL GRANTS

The American Brain Tumor Association Translational Grant is a one year award for pre-clinical research that critically evaluates the diagnostic and/or therapeutic potential of recent discoveries for advancement to clinical application.

Mukund Seshadri, PhD

Roswell Park Cancer Institute, Buffalo, NY
“Disrupting Glioma Vasculature for Enhanced Drug Delivery”

Jialiang Wang, PhD

Vanderbilt University, Nashville, TN
“Targeting the Notch Signaling Pathway in Molecularly Defined Tumor Subtypes of Glioblastoma”

DISCOVERY GRANTS

The American Brain Tumor Association Discovery Grant is a one year award supporting high risk/ high impact projects that have the potential to change current diagnostic or treatment paradigms.

Lynne Bemis, PhD

University of Colorado Denver, Aurora, CO
“Survival Outcomes and Patient Immune Responses in Pediatric CNS Tumors: the Role of microRNA-221 and Exosomes”

Clark C. Chen, MD, PhD

University of California San Diego, San Diego, CA
“Dopamine Receptor 2 (DRD2) as a Novel Target for Glioblastoma Therapy”

Samuel Cheshier, MD, PhD

Stanford University School of Medicine, Stanford, CA
“Utilization of Novel Computational Approach-- Mining of Developmentally Regulated Genes-- to Discover New Developmental Hierarchies within Brain Tumor Stem Cells and Progenitors”

Bin Hu, PhD

The Ohio State University, Columbus, OH
“Role of Fibulin-3 on Glioma Vascularization and Activation of Notch Signaling in Endothelial”

Yunqing Li, MD

Hugo W. Moser Research Institute, Baltimore, MD
“Glioblastoma Cell Reprogramming by Defined Reprogramming Factors & Oncogene Signaling”

Akiko Mammoto, MD, PhD

Children's Hospital Boston/Harvard Medical School, Boston, MA
“Mechanical Control of Angiogenesis in Glioblastoma Multiforme”

Stacy McCarty, MD

Rehabilitation Institution of Chicago, Chicago, IL
“The Outcomes and Cost of Day Rehabilitation in Individuals with Malignant Brain Tumors”

Rajesh Mukthavaram, PhD

Moore's Cancer Center, University of California San Diego, La Jolla, CA
“Identification of Potential Olig2 Inhibitors for the Treatment of Glioblastoma”

Nader Sanai, MD

Barrow Neurological Institute, Phoenix, AZ
“Identification of a Spectroscopic Signature of Human Glioblastoma Stem Cells”

Martyn Sharpe, PhD

The Methodist Hospital Research Institute, Houston, TX
“Targeting Mitochondria with a New Class of Glioma-Specific Chemotherapeutic Agents”

Edward R. Smith, MD

Children's Hospital Boston, Boston, MA
“Biomarker Profiling of Metastasis”

Peng Sun, MD, PhD & Erik Sulman, MD, PhD

University of Texas MD Anderson Cancer Center, Houston, TX
“A Germline-Stem Specific PiRNAs Identification in GBM Cancer Stem-Like Cells”

Hiroaki Wakimoto, MD, PhD

Massachusetts General Hospital, Boston, MA
“Role of Cancer Stem Cells in Glioblastoma Recurrence”

MEDICAL STUDENT SUMMER FELLOWSHIPS

The American Brain Tumor Association Medical Student Summer Fellowship program is a three month mentoring-focused summer program intended to motivate talented medical students to pursue a career in neuro-oncology.

Ranaan Alter

“The Effects of HDAC Protein Inhibition on the DNA Damage Response in Bone Cancer”
Mentor: Ekkehard Kasper, MD, PhD
Beth Israel Deaconess Medical Center/ Massachusetts Institute of Technology, Cambridge, MA

Aubrey Bonhivert

“The Role of Acid Sphingomyelinase in Glioma Invasion”
Mentor: Balveen Kaur, PhD
The Ohio State University, Columbus, OH

August Dietrich

“Genetic Modification of Human Glioblastoma Stem Cells with Stem Cell-Specific Lentiviral Vectors”
Mentor: Dimitris Placantonakis, MD, PhD
New York University School of Medicine, New York, NY

Sandra Ho

“IL-23 Receptor Antibody Reverses IL-23 Mediate Expansion of Regulatory T-cells”
Mentor: Michael Lim, MD
Johns Hopkins University, Baltimore, MD

Melody Lun

“Cerebrospinal Fluid Providing IGF2 Cues in Glioblastoma Multiforme Invasiveness”
Mentors: Christopher Walsh MD, PhD & Maria Lehtinen, PhD
Children's Hospital Boston, Boston, MA

“ The most beneficial use of this funding was to enable a new investigator with little background in cancer research to pursue research in the exciting area of mechanics of glioma cells. It helped me to set up a laboratory and hire a postdoctoral researcher that jump-started the proposed research. ”



<<<<< Applications

for ABTA Basic Research Fellowships, Translational Grants, and Medical Student Summer Fellowships are due **January 10, 2012**. Visit www.abta.org for eligibility or applications.

Daniel Nagasawa

“Bioengineered Recombinant Vault Nanoparticles: A Novel Immunotherapeutic Approach for the Treatment of Glioblastoma Multiforme”
Mentor: Isaac Yang, MD
University of California Los Angeles, Los Angeles, CA

Yiannis Philippou

“Characterization of MGMT Promoter Methylation Using an Episomal Cell Culture System”
Mentor: Albert Lai, MD, PhD
University of California Los Angeles, Los Angeles, CA

Alexander Pine, PhD

“Immunohistochemical Analysis of Gliomatosis Cerebri Tissue Samples and Correlation with Clinical and Magnetic Resonance Imaging Data to Predict Tumor Behavior, Treatment Response, and Overall Prognosis”
Mentor: Jorg Dietrich, MD, PhD
Massachusetts General Hospital, Boston, MA

Moshe Prayer

“The Effects of Sunitinib on PDGFRA Signaling in a Mouse Model of Glioblastoma”
Mentor: Peter Canoll, MD, PhD
Columbia University, New York, NY

Kevin Quinn

“An Evaluation of Long-Term Neurocognitive Deficits and Recovery in Multiple Brain Metastases Treated by Whole Brain Radiation Therapy”
Mentor: Young Kwok, MD
University of Maryland, Baltimore, MD

Lauren Rotman

“Multi-Drug Targeted Therapy in Diffuse Intrinsic Pontine Glioma”
Mentor: Mark Souweidane, MD
Weill Cornell Medical College, New York, NY

Nicolas Vilelli

“Determining if Glioma Subtype is Affected by CMV Infection”
Mentor: E. Antonio Chiocca, MD, PhD
The Ohio State University College of Medicine, Columbus, OH

Nicolas Yannuzzi

“Characterization of Ran Binding Protein 6 as New EGFR Regulator”
Mentor: Ingo Mellingerhoff, MD
Memorial Sloan Kettering Cancer Center, New York, NY

Ryan Youland

“Ubiquitin B as a Potential Mediator of Temozolomide Resistance in Glioblastoma”
Mentor: Jann Sarkaria, MD
Mayo Clinic, Rochester, MN

Michael Youssef

“A Multi-Factorial Approach to the Study of Glioblastoma Multiforme: Imaging of the Subventricular Zone and Regulation of MGMT Expression in Gliomas”
Mentor: Bruce Frankel, MD
Medical University of South Carolina, Charleston, SC

INTERNATIONAL OUTREACH

A collaboration between EMD Serono, the American Brain Tumor Association and the Society for Neuro-Oncology, this one-year fellowship provides an opportunity for professionals from outside North America to perform clinical, translational or basic research in the area of neuro-oncology in a clinical and/or laboratory setting in the United States or Canada.

Yi Lin, MD

Beijing Neurosurgical Institute
Mentor: Jay-Jiguang Zhu, MD
Host institution: University of Texas MD Anderson Cancer Center, Houston, TX

Jun-Ping Zhang, MD

Beijing Sanbo Brain Hospital
Mentor: Patrick Wen, MD, PhD
Host institution: Dana Farber Cancer Institute, Boston, MA

INDUSTRY SUPPORT

The American Brain Tumor Association (ABTA) provides collaborative funding to a pre-clinical study conducted by Tocagen Inc. for the evaluation of its investigational treatment “Toca 511 & Toca FC” in companion dogs with brain cancer.

This ABTA research grant presents an opportunity to advance treatment for glioblastoma, the most aggressive of brain tumors. According to the National Cancer Institute (NCI), canine cancers share many features with human cancers, including tumor genetics, molecular targets, biological behavior, and response to conventional therapy.

Researchers are increasingly recognizing that evaluation of promising new therapies in canine cancer patients can provide valuable data on treatment safety and effectiveness in humans. Tocagen’s investigational therapy holds the potential for brain tumor research breakthroughs, and ABTA’s funding will support research towards a new approach for developing human treatments.

The treatment of companion dogs under this grant is being conducted by Peter Dickinson, DVM, PhD, a board certified veterinary neurologist at the University of California, Davis, School of Veterinary Medicine.





“ As a young independent investigator, the funds from ABTA allowed my lab to better define research directions, participate in important collaborations, and recruit and cover expenses for our first graduate student. It has reaffirmed my commitment to cancer research. ”

BRAIN TUMOR FUNDERS' COLLABORATIVE

The Brain Tumor Funders' Collaborative is a partnership among the following private philanthropic and advocacy organizations: American Brain Tumor Association, Brain Tumor Foundation of Canada, Children's Brain Tumor Foundation, James S. McDonnell Foundation, National Brain Tumor Society and the Sontag Foundation. Together, the Funders have supported three multi-million dollar projects and eleven biomarker feasibility studies.

ABTA/AANS/CNS CLINICAL RESEARCH AWARD

A two year clinical award collaboration between the American Brain Tumor Association, the American Association of Neurological Surgeons and the Congress of Neurological Sciences, this grant supports the collection of pilot data for projects with direct clinical application.

Linda Liau, MD

University of California Los Angeles, Los Angeles, CA
“Adoptive Transfer of NY-ESO-1 Genetically Engineered TCR for Treatment of Glioblastoma”

BRAIN TUMOR EPIDEMIOLOGY CONSORTIUM (BTEC)

JUNIOR INVESTIGATOR AWARDS

These awards support the research interests of early career epidemiologists by making it possible for them to present their work at the annual BTEC meeting among an international audience of epidemiologists.

Kyle Walsh, PhD

University of California San Francisco, San Francisco, CA

Anna Luisa Di Stefano, MD

University Pierre et Marie Curie, Paris, France

CENTRAL BRAIN TUMOR REGISTRY OF THE UNITED STATES (CBTRUS) GRANT

One of the primary objectives in ABTA's founding, and continued support, of this registry is to ensure the existence of data on the incidence (the number of people diagnosed each year) and the prevalence (the number of people living with a brain tumor in any given year) of both benign and malignant brain tumors. World-renowned epidemiologists and neuro-pathologists now lead the domestic and international initiatives put forth by this registry. We nurture the CBTRUS initiative in recognition that this disease will be better understood once the true incidence of brain tumors is documented.

SPORE COLLABORATIVE FUNDING PROJECT

This initiative is a collaboration between the American Brain Tumor Association (ABTA), Accelerate Brain Cancer Cure (ABC²), the National Brain Tumor Society (NBTS) and the National Cancer Institute (NCI). Grants provided through this mechanism provide supplemental support to two clinical trials sponsored by NCI's SPORE (Specialized Programs of Research Excellence) program.

Andrew Parsa, MD, PhD

University of California San Francisco, San Francisco, CA

John H. Sampson, MD, PhD, MHS

Duke University Medical Center, Durham, NC

SURVIVORSHIP/SYMPTOM MANAGEMENT

Studies looking at the impact of a brain tumor diagnosis on the lives of patients, families and survivors.

Thomas Hardie, EdD, RN

Drexel University, Philadelphia, PA
ABTA/Oncology Nursing Foundation
Neuro-oncology Nursing Small Grant
“Latent Trajectories of Late Treatment Effects in Pediatric Brain Tumor Survivors”

Jeffrey Raizer, MD

Northwestern Memorial Hospital, Chicago, IL
“Analysis of Out-of-Pocket Costs of Care and Quality of Life Concordance”

Angela Starkweather, PhD

Virginia Commonwealth University, Richmond, VA
ABTA/Oncology Nursing Foundation
Neuro-oncology Nursing Small Grant
“Glial Activation and Symptoms in Patients with Brain Tumor”

“ I hope to spend the rest of my career being a neurosurgeon to patients with CNS cancers and studying their diseases in the laboratory, and I would underscore the ABTA's major role in supporting that hope. ”



JOIN

the American Brain Tumor Association
CONNECTIONS online support community.

www.ABTA.inspire.com

Together, we're better.

Connecting patients, families, friends, caregivers and healthcare professionals to resources and wellness support.

Anyone affected by a brain tumor can join our "Connections" online support community. Stop by, look around, read what others are saying and sharing. Visit the discussions and journals to see what topics are important to others in the brain tumor community.

When you're ready, sign up, activate your account, and complete your profile with your story. Join our group, add a photo, add some interests and invite your family and friends to join the ABTA Connections support community. Make new "Connections" and get inspired while you help inspire others.



Connections
American Brain Tumor Association

Connect with others. Begin friendships. Get informed.

The American Brain Tumor Association is committed to offering supportive care and a broad range of resources to help patients and their families throughout the spectrum of brain tumor care—from diagnosis through treatment and beyond. We are available to help patients and families access emotional support and informational resources. Our publications provide in-depth and general brain tumor treatment and support resources. These include:

- A brain tumor Primer
- A dictionary for brain tumor patients and their care partners
- Tumor-specific brochures and informational articles
- Literature on treatments, treatment facilities and clinicians
- Information for and about children & teens
- Information about advance planning & care options
- Comfort care and end-of-life resources
- Financial assistance resources
- Therapeutic recreation resources
- Transportation and housing during treatment resources
- Wig and head covering resources
- Customized information based on patient needs
- Support group listings
- Newsletters and e-news
- ...and more

Founded in 1973, the American Brain Tumor Association (ABTA) was the first national nonprofit organization dedicated solely to brain tumors. For nearly 40 years, the Chicago-based ABTA has provided critical funding to researchers working toward breakthroughs in brain tumor diagnosis, treatment and care, and is the only national organization providing comprehensive resources and serving the complex supportive care needs of brain tumor patients and caregivers.



TrialConnect™
American Brain Tumor Association

Introducing TrialConnect™
**ABTA's new clinical trial
matching service**

TrialConnect™ from the American Brain Tumor Association

When an individual receives a brain tumor diagnosis, they want and deserve to know about all available treatment options. To help in this search, the American Brain Tumor Association has partnered with EmergingMed to offer a free, confidential, personalized service that matches brain tumor types and treatment histories with appropriate clinical trials.

What is a clinical trial? A clinical trial offers new or experimental treatments to qualified brain tumor patients. Clinical trials are tests to determine if a particular treatment is safe and effective for use. Clinical trial participants volunteer to receive a treatment that would otherwise be unavailable to them.

How does the service work? To access TrialConnect™ and a list of clinical trials:

- **Call 1-877-769-4833 to find clinical trials that match their situation and to learn more about brain tumor research.** Our clinical trials navigators are available Monday through Friday from 8:30 am to 6:30 pm ET. Se habla Español.
- **Complete a profile online at www.ABTATrialconnect.org and click "Find a Match."**

Why should patients be interested in clinical trials? The patient's goal is to find the best treatment available for their particular diagnosis, in conjunction with their medical team.

Why should patients consider searching for clinical trials as soon as they are diagnosed? To be eligible for clinical trials, timing is everything. If a patient enters treatment without considering trials, they may find later that they are ineligible. Our TrialConnect™ service helps patients stay informed about all of their choices. We never want to hear any brain tumor patient say, "I wish I had known about this option earlier."



**American
Brain Tumor
Association**

*Where compassion
meets commitment*

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