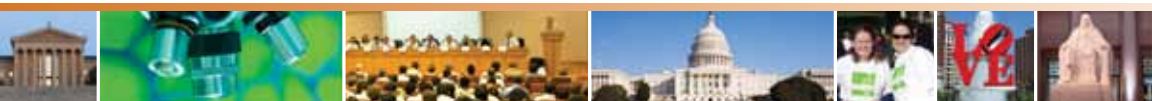




National  
Brain Tumor  
Society

Transforming  
tomorrow, **today**



National Brain Tumor Society  
**2011 Summit**

November 3 – 6  
Philadelphia, PA

In recognition of their generous support  
of patient and family events at the  
National Brain Tumor Society 2011 Summit,  
**we offer special thanks to**

**Genentech**  
*A Member of the Roche Group*

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Thank you to our additional sponsors, including:

**Diplomat**   
*Specialty Pharmacy*

Keeping Patients Healthier...Longer.™

# Welcome!

**Thank you for joining us at the  
National Brain Tumor Society 2011 Summit!**

This series of inspiring events, hosted in the great city of Philadelphia, has been developed especially for you. Learn the latest about research, share resources, connect with new people, celebrate accomplishments, and take action to make our voices heard.

Together we are **transforming tomorrow, today.**

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## Schedule of Events, November 3 – 6



**Thursday, November 3**

**6 – 7 pm**

**Community Reception**

The Franklin Institute

**7 – 9:15 pm**

**Annual Meeting/Dinner**

The Franklin Institute

**9:15 – 10:30 pm**

**After Dinner Reception**

The Franklin Institute



**Friday, November 4**

**9 am – 2:30 pm**

**Research Symposium**

Sheraton University City Hotel

**6 – 8 pm**

**Patient & Family Welcome Reception**

Sheraton University City Hotel



**Saturday, November 5**

**9 am – 4 pm**

**Patient & Family Program**

Sheraton University City Hotel



**Sunday, November 6**

**6:30 am – 12 pm**

**Race for Hope – Philadelphia**

Steps of the Philadelphia Art Museum



*For those of you who may be tweeting from the Summit, we encourage you to mention **#NBTSsummit11** so others can see what you are saying about the event!*

Join our NBTS Community:





## Annual Meeting Program

6 – 10:30 pm

The Franklin Institute

### 6 – 7 pm Community Reception

Enjoy mingling and connecting with people while exploring a few of the interactive exhibit areas at The Franklin Institute.

### 7 – 9:15 pm Dinner Program

- Welcome
- Research grant recipient recognition
- NBTS looking ahead
- Community Leadership Awards
  - Colleague Organization – presented to Dellann Elliott from the *Chris Elliott Fund for Glioblastoma Brain Cancer Research*
  - Program/Events – presented to The Sullivan Family
  - Awareness – presented to Karen Armentani

### 9:15 – 10:30 pm After Dinner Reception

Relax and continue mingling over coffee, tea, and chocolate.



“This is a defining time in American’s commitment to finally defeat cancer. Because of unimagined progress – and a vision of what is now possible – there is enormous optimism and new hope that we can achieve this goal.”

AACR Cancer Progress Report 2011:  
Transforming Patient Care Through Innovation



## Research Symposium

9 am – 2:30 pm

Sheraton University City Hotel

### Stepping Up to the Complexity Challenge: The Systems Biology Era of Cancer Research

**8:00 – 9:00 am Breakfast**

**9:00 – 9:10 am Welcome and Introductions**

David R. Hurwitz, PhD: *Chief Scientific Officer,  
National Brain Tumor Society*

Daniel Gallahan, PhD: *Deputy Director, Division of  
Cancer Biology, NCI Program Director, Integrative Cancer  
Biology Program*

**Cancer Systems Biology: The Science and Research**

**9:10 – 9:35 am Introduction: Why We Need Brain  
Tumor and Cancer Systems Biology Research**

Michael B. Yaffe, MD, PhD: *Professor, Biology and  
Biological Engineering, Koch Institute for Integrative Cancer*

**9:35 – 10:00 am Translating Cancer Genomics**

Lynda Chin, MD: *Professor and Chair, Department of  
Genomic Medicine, MD Anderson Cancer Center*

**10:00 – 10:25 am Interrogating High-Grade Glioma  
Regulatory Networks to Identify Master Regulators of  
Tumor Subtype and Associated Driver Mutations**

Andrea Califano, PhD: *Founding Director, Columbia  
Initiative in Systems*

**10:25 – 10:50 am Relating the Genetic Features of  
Human Cancers to Drug Efficacies Comprehensively**

Stuart L. Schreiber, PhD: *Director of Chemical Biology,  
Broad Institute of Harvard and MIT*

**10:50 – 11:10 am Break**



Cancer research now calls for a change in approach – systems biology – to lead to new, effective therapies faster to extend people's lives.

**11:10 – 11:35 am Mathematical Modeling of Brain Tumor Biology**

Thomas S. Deisboeck, MD: *Director, Complex Biosystems Modeling Laboratory, Harvard – MIT Athinoula A. Marinos Center for Biomedical Imaging*

**11:35 – 12:00 pm Questions and Answers / Facilitated Discussion**

Michael B. Yaffe, MD, PhD: *Professor, Biology and Biological Engineering, Koch Institute for Integrative Cancer*

**12:00 – 1:30 pm Lunch**

**Cancer Systems Biology: Strengthening the Field to Strengthen the Research**

**1:30 – 1:35 pm Introductions**

David F. Arons, JD: *Director of Public Policy, National Brain Tumor Society*

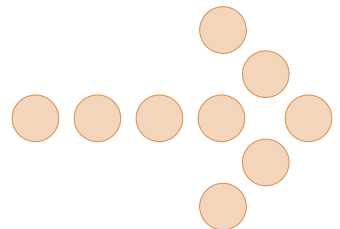
**1:35 – 2:30 pm Panel Discussion**

**Facilitator:**

Michael E. Berens, PhD: *Professor and Director, Cancer and Cell Biology Division, TGen*

**Panelists:**

- Daniel Gallahan, PhD: *Deputy Director, Division of Cancer Biology, NCI; Program Director, Integrative Cancer Biology Program*
- Vito Quaranta, MD: *Director, Center for Cancer Systems Biology, Vanderbilt University*
- N. Paul TonThat: *Executive Director, National Brain Tumor Society*



# 2011 National Brain Tumor Society Grant Recipients

## **Systems Biology Approaches to Brain Tumor Research**

National Brain Tumor Society (NBTS) has announced the six recipients who will receive grants from the largest research initiative it has ever funded – the *Mary Catherine Calisto Systems Biology Initiative*.

Billy Grey Chair in Systems Biology

### **Markus Bredel, MD, PhD**

*University of Alabama, Birmingham*

#### **Integrated pharmacogenomic/pharmacokinomic approach to optimize GBM therapy**

The multidisciplinary team will address two challenges in developing novel glioma therapies: targeting tumors with focused personalized treatments and recurrence. New algorithms will be designed to create a glioma specific network that informs effective therapeutic strategies.

Jacqueline Oswald Chair in Systems Biology

### **James M. Gallo, PhD**

*Mount Sinai School of Medicine*

#### **Systems approach to overcome brain tumor resistance to molecularly targeted anticancer drugs**

The study will build networks to identify the multiple mechanisms behind drug resistance. The pharmacodynamic and pharmacokinetic properties of drugs will be connected to the networks to create models for new multidrug treatment strategies.

James Ronan Family Chair in Systems Biology

### **Santosh Kesari, MD, PhD**

*University of California, San Diego*

#### **Development of an in silico systems biology approach to personalizing GBM therapy**

Cancer stem cells (CSCs) are believed to be the culprits behind GBM's resistance to therapy. This team will apply a Systems Biology approach to genetically characterize CSCs and predict which cancer drugs would provide a positive treatment response for our patients.

Hamill Family Chair in Systems Biology

**Anna M. Krichevsky, PhD**

*Brigham and Women's Hospital*

**Systemic analysis of microRNA signaling pathways and survival of glioblastoma patients**

MiRNAs are linked to GBM growth and invasiveness. Utilizing the The Cancer Genome Atlas dataset, a computational approach will be developed to identify combinations of miRNAs that should be targeted for glioma combination therapies.

Barry and Caren Glassman Chair in Systems Biology

**Ingo Mellinghoff, MD**

*Memorial Sloan Kettering Cancer Center*

**A systems approach to develop PET imaging radiotracers for IDH1 mutant glioma**

A team of investigators from academia and industry will develop a radiotracer that can image the metabolic changes associated with IDH1 mutations in gliomas. The radiotracers will ultimately provide a noninvasive measure to determine if IDH1 inhibitors are successfully delivered to the tumors.

BethAnn Telford Chair in Systems Biology

**Brent A. Reynolds, PhD**

*University of Florida*

**The edge of chaos: Application of complex adaptive system approach to managing tumor populations**

Adaptation of tumors to treatment is the hallmark of their survival. The team will apply models used to understand other Complex Adaptive Systems to better comprehend tumor biology and determine how to interfere with the complex interplay that allows tumor cells to adapt and resist current treatments.

 **Developmental Neurobiology Approaches to Pediatric Cancer Research**

National Brain Tumor Society is collaborating with the Brain Tumour Foundation of Canada to fund this Initiative.

Developmental neurobiology is the field of study of normal brain development comprised of the anatomical, cellular and molecular processes that take place during prenatal and postnatal periods. Developmental neurobiology investigates both the control of brain development by genes and its influence by environmental factors.

**National Brain Tumor Society is excited to announce the 2011 grant recipients during the evening program at the Annual Meeting.**

## 2011 National Brain Tumor Society Grant Recipients *continued*



### **Innovation Grants**

James F. Petersen Chair of Research

#### **Tocagen**

*San Diego, CA*

#### **Toca 511 with 5-FC for the potential treatment of brain cancer**

Toca 511 hides in the cancer environment spreading from cancer cell to cancer cell, thereby allowing targeted delivery of a potent anti-cancer drug to cancer tissue while leaving healthy tissue unharmed.



### **Innovation Recognition Award**

#### **Angiochem**

*Montreal, Canada*

Proprietary platform for Engineered Peptide Compounds (EPiC) to discover and develop drugs that cross the blood-brain barrier through Low-Density Lipoprotein Receptor Related Protein-1 (LRP-1) targeting.



### **Advanced Grants**

Seth Harris Feldman Chair of Research

#### **David Largaespada, PhD**

*University of Minnesota*

#### **The Neuro-Oncology Genomics Project**

This study utilizes sophisticated mouse models that highlight the altered genes and pathways that cause cancer. The models will also be used to test the idea of combination therapies directed at more than one of the altered proteins and signaling pathways.

Caroline Christine Peabody Chair of Research

#### **James Waschek, PhD**

*University of California, Los Angeles*

#### **Critical role of STAT3 in medulloblastoma immune evasion in genetically engineered mice**

The objective of this project is to genetically distinguish the consequences of STAT3 activation in medulloblastoma tumor cells vs. the immune cells that invade the tumors. STAT3 activation is thought to be a critical event in the development of brain tumors and a suggested therapeutic target. However, STAT3 is also important for the ability of the immune system to help fight tumors. Genetically engineered mice afford a new possibility to determine mechanisms by which the natural immune response changes as tumors progress from very early to later stages.



## Patient & Family Welcome Reception

6 – 8 pm

*Sheraton University City Hotel*

A fun and informal opportunity to meet and talk with others in the brain tumor community. You'll also enjoy:

- A musical performance by Chris Stein
- An Art Gallery with stories and photos from people affected by brain tumors
- Meeting our Get Your Head In The Game® spokespeople
- A Community Video Recording to share your story
- Light refreshments





## Patient & Family Program

9 am – 4 pm

Sheraton University City Hotel

### Brain Tumor 101: Your Personal Walk through Survivorship

**8:00 – 9:00 am Registration**

**9:00 – 9:15 am Welcome**

**9:15 – 9:45 am 1st Speaker**

David Andrews, MD: *Jefferson University* – speaks on latest treatments

**9:45 – 10:15 am 2nd Speaker**

Elana Farace, PhD: *Penn State, Hershey* – speaks on cognitive issues

**10:30 am – 12:30 pm Mini-Breakout Sessions**

Five (5) topic areas covering: Cognitive, Financial Needs, Caregiver, Clinical Trials, and Symptoms (specifically fatigue and seizures)

**10:30 am – 10:55 am**

**11:00 am – 11:25 am**

**11:30 am – 11:55 am**

**12:00 pm – 12:25 pm**

*Topics run concurrently and last for 25 minutes each, so you can visit up to four (4) sessions.*

**12:30 – 1:15 pm Lunch**

Local brain tumor survivor Karen Armentani speaks on the importance of humor in coping.

**1:15 – 2:15 pm Support Groups**

Two support groups will be offered after lunch, one for caregivers and one for survivors. Facilitated by **Arbena Merolli, MSW**, *Manager of Patient Affairs, Department of Neurosurgery, University of Pennsylvania* and **Alisha Amendt, NP**, *Department of Neurosurgery, Thomas Jefferson University*.

### All Day Activities

9 am – 4 pm

#### Resource Center

A chance for one-on-one conversation with local and national groups, including Cancer Care, Cancer Legal Resource Center, Cancer Support Community of Philadelphia, CaringBridge, Emerging Med, Epilepsy Foundation of America, Family Caregiver Alliance, Patient Advocate Foundation, and Visiting Nurse of Philadelphia. (see pages 13 – 14 for more details)

#### Interact with NBTS

Learn, share, and connect with the National Brain Tumor Society and make a difference in the fight against brain tumors!

- Learn about becoming an advocate
- Get your head in the game
- Share your story online or on video
- Hear about exciting new NBTS research initiatives

# 2011 Patient & Family Program

## Speakers and Resource Center Partners

### **David Andrews, MD Neurosurgery**

Dr. Andrews trained at the New York Hospital – Cornell Medical Center and completed a one-year fellowship in Neuro-oncology at the Memorial Sloan-Kettering Cancer Center.

Dr. Andrews is recognized as a world leader in radiosurgery and established the first Radiosurgery Program in the Delaware Valley in 1991. He has lectured throughout the world as an invited speaker on radiosurgery topics and is noted for techniques in stereotactic radiotherapy which he has pioneered. Dr. Andrews is very active initiating and carrying out many clinical trials for the treatment of brain tumors.

### **Elana Farace, PhD Neuropsychology**

Dr. Farace was trained as neuropsychologist at the University of Virginia and is an Associate Professor of Neurosurgery and Health Evaluation Sciences at Pennsylvania State Milton S. Hershey Medical Center. She has a neuropsychology practice at Penn State.

Her specific research interests include the quantification and remediation of “chemo brain” and other neurocognitive results from chemotherapeutic and radiation treatments; the interactions among neurocognitive impairment and psychiatric disorders such as anxiety and depression; and counseling interventions to improve cancer patients and family quality of life.

### **NBTS Clinical Trials Matching Service by EmergingMed**

[www.EmergingMed.com/networks/NBTS](http://www.EmergingMed.com/networks/NBTS) 877.769.4812

EmergingMed’s mission is to create a coordinated, seamless connection between patients, clinical trials, and physicians at exactly the right time – when a person’s medical situation is perfectly aligned with a researcher’s effort to find new and better treatments.

EmergingMed offers a patented clinical trial matching service that helps people, in a matter of minutes, find appropriate clinical trials and trial sites that match their specific diagnosis, stage, symptoms, and treatment history.

### **Epilepsy Foundation of America**


[www.EpilepsyFoundation.org](http://www.EpilepsyFoundation.org)

The Epilepsy Foundation of America is a national voluntary agency working to ensure that people with seizures are able to participate in all life experiences; to improve how people with epilepsy are perceived, accepted, and valued in society; and to promote research for a cure.

### **CaringBridge**

[www.CaringBridge.org](http://www.CaringBridge.org)

CaringBridge offers an easy to use web-based service that allows people to communicate easily with family and friends about a significant health challenge. It provides a personal and private space for people to share their experience,

continued 

allowing others to express their feelings and offer support. CaringBridge helps people overcome physical and emotional distances when being there is essential. It is a community of grateful, engaged families, and friends.

### **Cancer Legal Resource Center**

[www.CancerLegalResourceCenter.org](http://www.CancerLegalResourceCenter.org) 866.843.2572

The Cancer Legal Resource Center (CLRC) is a national, joint program of the Disability Legal Center and Loyola Law School Los Angeles. The CLRC provides free information and resources on cancer-related legal issues to cancer survivors, caregivers, health care professionals, employers, and others coping with cancer.

### **CancerCare**

[www.CancerCare.org](http://www.CancerCare.org) 800.813.4673

CancerCare helps individuals and families better cope with and manage the emotional and practical challenges arising from cancer. It's services – for patients, survivors, loved ones, caregivers, and the bereaved – include counseling and support groups, educational publications and workshops, and financial assistance. All services are provided by professional oncology social workers and are offered completely free of charge.

### **Visiting Nurse Service of Philadelphia**

[www.vnaphilly.org](http://www.vnaphilly.org) 215.473.7600

The Visiting Nurse Association of Greater Philadelphia is the oldest and largest non-profit home health and hospice provider in the region, and one of the most innovative in the nation. Founded in 1886, the VNA is headquartered in Philadelphia and serves over 50,000 residents of Philadelphia and the surrounding suburbs each year.

### **Cancer Support Community of Philadelphia**

[www.CancerSupport-phila.org](http://www.CancerSupport-phila.org) 215.879.7733

The Cancer Support Community of Philadelphia (formerly The Wellness Community of Philadelphia) is a non-profit organization serving people with cancer and their loved ones of all ages and ethnicities throughout the five-county area. At the Cancer Support Community, people with cancer join with others to learn they are not alone.

### **Patient Advocate Foundation**

[www.PatientAdvocate.org](http://www.PatientAdvocate.org) 800.532.5274

The mission of the Patient Advocate Foundation is to provide effective mediation and arbitration services to patients to remove obstacles to healthcare including medical debt crisis, insurance access issues and employment issues, for patients with chronic, debilitating, and life-threatening illnesses.

### **Family Caregiver Alliance**

[www.caregiver.org](http://www.caregiver.org) 800.445.8106

Family Caregiver Alliance serves as a point of entry to specialized caregiver services: information, emotional support, consultation on care planning, links to community programs, legal/financial consultation, respite services, counseling, publications, and educational programs. All services are free or low cost.



## Race for Hope – Philadelphia

*At the steps of the Philadelphia Museum of Art*

*Registration: 6:30 – 7:30 am*

*Program and Activities: 7:30 – 11:30 am*

*Run/Walk Start: 8:00 am*

Join us as a team or individual for this inspirational, all-ages fundraising 5K walk/run and community day to support the brain tumor cause.

(Note: The route is wheelchair and stroller accessible.)

**Walk. Run. Volunteer. Donate.**

**[www.RaceForHopePA.org](http://www.RaceForHopePA.org)**

*Please note that online registration is now closed, but day-of-event registration is **welcome**. Hope to see you there!*



Meeting people who right away knew what I was going through, and then getting real resources and information, gave me a **renewed sense of hope.** Thank you!

### About the National Brain Tumor Society

National Brain Tumor Society is fiercely committed to finding a cure for brain tumors. Learn more about how we aggressively drive strategic research, advocate for public policies that meet the critical needs of the brain tumor community, and provide comprehensive patient, family, and caregiver resources at [www.braintumor.org](http://www.braintumor.org).

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Learn more at [www.braintumor.org](http://www.braintumor.org).