AGENDA

7:00 am  IN-PERSON: Check In, Continental Breakfast, Visit Exhibits and Experts

7:15 am  VIRTUAL: Log in to Virtual Conference

7:30 am  Welcome and Introduction
  Nduka Amankulor, MD | Activity Director | Director of Penn Brain Tumor Center
  Robert H. Vonderheide, MD, DPhil | Director of Abramson Cancer Center
  Daniel Yoshor, MD | Chairman of Neurosurgery

SCIENTIFIC SESSION I: NEW CONCEPTS AND INNOVATIVE TECHNOLOGIES

MODERATOR: Steven Brem, MD | Activity Director | Neurosurgery

7:40 am  Progress in “The War on Cancer”
  Innovation and Scientific Breakthroughs Addressing the Extraordinary Challenges of Brain Cancer: Quo vadis?
  Nduka Amankulor, MD | Activity Director | Neurosurgery
  Steven Brem, MD | Activity Director | Neurosurgery

8:00 am  KEYNOTE ADDRESS: The Roadmap for “Cancer Neuroscience”:
  Implications for oncology and neuro-oncology
  Shawn Hervey-Jumper, MD | Neurosurgery | University of California San Francisco

8:30 am  Next Generation Sequencing (NGS) in Glioblastoma:
  Clinically relevant genomics
  Jennifer Morrissette, PhD | Pathology & Laboratory Medicine

8:45 am  The 2021 WHO Classification and Integrated Molecular Profiling in the Diagnosis of Malignant Gliomas- The Role of AI/ML and the CHARM System for Real-Time Histopathologic Diagnosis
  MacLean Nasrallah, MD | Pathology & Laboratory Medicine

9:00 am  RANO 2.0 and Advances in Neuroimaging: Impact on clinical trials and clinical practice
  Suyash Mohan, MD, PDCC | Activity Co-Director | Radiology

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9:20 am  Molecular Imaging and Thernanostics in Neuro-Oncology  
Ali Nabavizadeh, MD | Radiology

9:35 am  Q & A PanelDiscussion  
MODERATOR: Steven Brem, MD | Activity Director | Neurosurgery  
PANEL: all speakers from Scientific Session I

9:50 am  Stories of Patient Survivors: Navigating the health care system, finding information, clinical trials, and hope  
Kaileen M. Bevenour, PA-C | Neuro-Oncology  
Elizabeth Heisler, PA-C | Neurosurgery  
Arbena Merollie Trettin, MSW | Neurosurgery  
Meghan O’Neill, CRNP | Medical Oncology

10:20 am  Special Town Hall Meeting for Patients, Caregivers, and Family Members  
MODERATORS: Steven Brem, MD & Nduka Amankulor, MD | Activity Directors | Neurosurgery

10:35 am  Break | Visit Exhibits | Chat with Experts

SCIENTIFIC SESSION II: NEURO-ONCOLOGY 2.0  
MODERATOR: Nduka Amankulor, MD | Activity Director | Neurosurgery

10:50 am  CART Cell Immuno-Oncology Program: From First in Human to Current and Future Studies- The Clinical Trial Pipeline  
Zev Binder, MD, PhD | Neurosurgery  
Stephen J. Bagley, MD, MSCE | Hematology Oncology | Neurosurgery  
Donald M. O’Rourke, MD | Neurosurgery

11:20 am  Overcoming Barriers to Extend Survival: Promising results of clinical trials for glioblastoma  
Steven Brem, MD | Activity Director | Neurosurgery

11:40 am  Optimizing Surgery and Immunotherapy for Gliomas using Advances in Genomics  
Nduka Amankulor, MD | Activity Director | Neurosurgery

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12:00 pm  Q & A Panel Discussion  
**MODERATORS:** Steven Brem, MD & Nduka Amankulor, MD | Activity Directors | Neurosurgery  
**PANEL:** all speakers from Scientific Session II & Christina Jackson, MD | Neurosurgery

12:15 pm  Lunch Break | Visit Exhibits | Chat with Experts

**SCIENTIFIC SESSION III:**  
**PROGRESS IN THE TREATMENT OF MALIGNANT BRAIN TUMORS**  
**MODERATOR:** Suyash Mohan, MD, PDCC | Activity Co-Director | Radiology

1:00 pm  KEYNOTE ADDRESS: Developing Novel Therapeutics in the Age of Genomics and Immuno-Oncology  
Evanthia Galanis, MD | Neuro-Oncology | Mayo Clinic

1:30 pm  Medical and Symptom Management of Patients with Brain Tumors  
Amy A. Pruitt, MD | Neurology

1:50 pm  Seizure Management for Brain Tumor Survivors: Current Concepts  
Saurabh R. Sinha, MD, PhD | Neurology

2:05 pm  Q & A Panel Discussion  
**MODERATOR:** Suyash Mohan, MD, PDCC | Activity Co-Director | Radiology  
**PANEL:** all speakers from Scientific Session III

**SCIENTIFIC SESSION IV: ADVANCES IN PRECISION SURGERY, MEDICAL AND RADIATION ONCOLOGY**  
**MODERATOR:** Goldie Kurtz, MD | Activity Co-Director | Radiation Oncology

2:20 pm  Circulating Tumor DNA in Glioblastoma  
Stephen Bagley, MD, MSCE | Medical Oncology

2:35 pm  Biomarkers in Immuno-Oncology: Road to Personalized Immunotherapy  
Christina Jackson, MD | Neurosurgery
2:50 pm  Advances in Radiation Therapy for Patients with Brain Tumors
Emily Schapira Lebow, MD | Radiation Oncology

3:05 pm  Updates in the Targeted and Immunological Treatment of Brain Metastases: Melanoma
Tara C. Mitchell, MD | Medical Oncology

3:20 pm  mRNA Technology to Develop Vaccines for Brain Tumors: Preliminary Experience and Prospects for Future Development
Peter J. Madsen, MD, MBE | Neurosurgery | Children’s Hospital of Philadelphia

3:35 pm  Advances in Intraoperative Molecular Imaging of Brain Tumors: Visualizing the Invisible
John Y.K. Lee, MD, MSCE | Neurosurgery

3:45 pm  Q & A Panel Discussion
MIXER: Goldie Kurtz, MD | Activity Co-Director | Radiation Oncology
PANEL: all speakers from Scientific Session IV

4:00 pm  Adjourn

Post Conference Details
After the conference has concluded, all attendees will receive an email from Penn CME with instructions on how to complete the post-test, evaluation, claim credit and obtain a certificate. Look for the email after Friday, February 2.

If you missed the Pre-Test, you will still be eligible to obtain your certificate after you complete the Post-Test and Evaluation. A Certificate of Participation is available to attendees who are not physicians or nurses.

Meeting Videos
Website: PennMedicine.org/Abramson/Brain2024
*Recordings from the meeting will be available Thursday February, 1st 2024 through February 2025

PennMedicine.org/Abramson/Brain2024
Overview

The purpose of this educational activity is to provide a review of new treatment options in neuro-oncology, including surgical techniques, and intraoperative imaging, along with, radiation and systemic therapies that have improved patient outcomes. Sessions will feature the latest advances in state-of-the-art care for practicing clinicians treating patients with brain tumors. Cutting-edge topics in precision medicine, including genetic, translational, and clinical research will also be featured. Activity format will provide significant opportunity for interaction with expert faculty and other attendees with the aim of implementing new standards of patient care. Participants will leave with up-to-date, practical information which will have immediate clinical application, as well as technical and scientific background on the current state, and where the latest scientific advances may take the field.

Learning Objectives

Upon completion of this course, participants should be able to:
- Implement WHO classification of brain tumors and how molecular profiling affects diagnosis, MRI interpretation, prognosis and therapy of patients with gliomas
- List advances in the surgical treatment of brain tumors including the use of fiber tracking (DTI), awake craniotomy, brain mapping, laser thermocoagulation, and fluorescence IGS (image-guided surgery)
- Identify the role of immune system to defend against CNS malignancy including the new class of checkpoint inhibitors and the potential use of CAR-T cell therapy
- List the benefits and application of proton therapy for low-grade and malignant gliomas
- Identify the scientific rationale, practical application, and survival benefit of electric field therapy for malignant brain tumors
- Identify the rationale and potential for viral therapies for malignant gliomas
- List recent advances in anti-angiogenic therapy in the treatment of gliomas

Who Should Attend

This symposium is designed for neurosurgeons, neuro-oncologists, neurologists, radiologists, medical oncologists, radiation oncologists, primary care physicians, oncology nurses, and other healthcare professionals involved in the treatment of patients with brain tumors.

Additionally, patients and their caregivers, family members, advocates and members of the public who may benefit from understanding current innovative approaches to brain tumor care are invited.

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Accreditation

In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Designation of Credit

PHYSICIANS: Penn Medicine designates this live activity for a maximum of 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSES: The program awards 7.5 NCPD hours.

Guests & Penn Medicine Faculty

Activity Directors

Nduka M. Amankulor, MD
President, Associate Professor in Neurosurgery
Chief, Neurosurgical Oncology
Director, Penn Brain Tumor Center
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine
Philadelphia, PA, USA

Steven Brem, MD
Professor of Neurosurgery
Site Director, Surgery Rotation
Neurosurgery Director, Neurosurgery Medical Student Education
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine
Philadelphia, PA, USA

Activity Co-Directors

Arati Desai, MD
Associate Professor of Medicine (Hematology Oncology)
Co-Director, Penn Brain Tumor Center
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine
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Goldie Kurtz, MD
Assistant Professor of Radiation Oncology
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Suyash Mohan, MD, PDCC
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Department of Radiology, Division of Neuroradiology
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Philadelphia, PA, USA

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Guests & Penn Faculty

Stephen J. Bagley, MD, MSCE
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Assistant Professor of Neurosurgery
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Kaileen M. Bevenour, PA
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Zev Binder, MD, PhD
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Instructor, Department of Neurosurgery
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Evanthia Galanis, MD
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Chair, Alliance for Clinical Trials in Oncology and President, Alliance Foundation
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Shawn Hervey-Jumper, MD, FAANS
Professor Department of Neurological Surgery
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Medical Director Neurosurgery
Director Glial Tumor Neuroplasticity Research Laboratory
Co-Director of the Sheri Sobrato Brisson Brain Cancer Survivorship Program
Principal Investigator, Brain Tumor Center
Weill Institute for Neuroscience / Helen Diller Family Comprehensive Cancer Center
San Francisco, CA, USA

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Director, Human Brain Tumor Tissue Bank  
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William N. Kelley Professor of Neurology  
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Program Director, Epilepsy Fellowship
Director, EEG Laboratories
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine
Philadelphia, PA, USA

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Director, Abramson Cancer Center
John H. Glick, Abramson Cancer Center's Director Professor
Vice Dean for Cancer Programs, Perelman School of Medicine
Vice President for Cancer Programs, UPHS
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Vice President, Clinical Integration and Innovation
Surgical Director of Penn Pituitary Center
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Disclosure of Financial Relationships
Staff in the Office of Continuing Medical and Interprofessional Education (CMIE) (Bruce Brod, MD, MCHI, FAAD, Vaughn Wurst and Belinda Rose, CHCP), and the listed Planning Committee Members (Barbara Lopez, Hyacen Putmon) have reported that they have no financial relationships with any ineligible companies related to the content of this educational activity.

The following faculty and planning committee (*) members have disclosed that they have no financial relationships with any ineligible companies related to the content of this educational activity.

Kaileen M. Bevenour, PA
Arati Desai, MD *
Elizabeth Heisler, PA-C
Christina Jackson, MD
Goldie A. Kurtz, MD *
Emily Schiapira Lebow, MD
John Y.K. Lee, MD
Peter J. Madsen, MD, MBE
Meghan O’Neill, CRNP
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Arbena Merolli Trettin, MSW
Robert H. Vonderheide, MD, DPhil
Daniel Yoshor, MD

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The following planning committee (*) and faculty members have reported the listed financial relationships with ineligible companies related to the content of their presentations. All financial relationships have been mitigated.

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<th>Faculty Name</th>
<th>Name of Ineligible Companies</th>
<th>Relationship(s)</th>
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<td>Nduka M. Amankulu, MD *</td>
<td>Johnson and Johnson</td>
<td>Consultant fee</td>
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<td>Stephen J Bagley, MD</td>
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<td>Celgene Corporation, Denovo Biopharma, MedImmune, Inc. (Relationships have ended)</td>
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<td>Galileo CDS, Novocure, Northwest Biotherapeutics (Relationship has ended)</td>
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We Gratefully Acknowledge the Following Companies for Providing Educational Grants

American Brain Tumor Association
National Brain Tumor Society
Northwest Biotherapeutics
Novocure

Thank you to Our Exhibitors

AstraZeneca
BK Medical
Caris Life Sciences
Imvax
Integra LifeSciences

MD Surgical Products
Molecular Targeting Technologies
Novartis

Novocure
SK Life Science
UCB Inc

Thank you to Our Experts

American Brain Tumor Association
Good Shepherd Penn Partners
National Brain Tumor Society
OncoLink.org
Reiki
Social Work – Patient & Family Services

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