

# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

A CME/CNE-accredited Symposium

**FRIDAY, JANUARY 31, 2025**



## 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**      **Educational Meeting Begins – Welcome and Introduction**  
[Nduka M. Amankulor, MD](#) | Activity Director | Neurosurgery  
[Steven Brem, MD](#) | Activity Director | Neurosurgery  
[Robert H. Vonderheide, MD, DPhil](#) | Abramson Cancer Center at the University of Pennsylvania  
[Daniel Yoshor, MD](#) | Neurosurgery

## SCIENTIFIC SESSION I: NEW CONCEPTS AND INNOVATIVE TECHNOLOGIES

**MODERATOR:** [Steven Brem, MD](#) | Activity Director | Neurosurgery

- 7:40 am**      **The Year in Review – Are We at a Turning Point in the War Against Brain Cancer?**  
[Nduka M. Amankulor, MD](#) | Activity Director | Neurosurgery  
[Steven Brem, MD](#) | Activity Director | Neurosurgery
- 8:00 am**      **KEYNOTE ADDRESS: Laser Interstitial Thermal Therapy (LITT) for Brain Tumors Preclinical Findings and Clinical Applications**  
[Ganesh Rao, MD](#) | Neurosurgery | Baylor College of Medicine
- 8:30 am**      **Integrated Diagnostics in Gliomas: The Role of Molecular Profiling and AI/ML**  
[MacLean Nasrallah, MD, PhD](#) | Pathology & Laboratory Medicine
- 8:45 am**      **Next Generation Sequencing (NGS) in Glioblastoma: Clinically relevant genomics**  
[Jennifer J.D. Morrisette, PhD](#) | 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
- 9:20 am**      **Radiomics and Imaging Biomarkers in Neuro-Oncology**  
[Ali Nabavizadeh, MD](#) | Radiology

# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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**9:35 am**      **Q & A Panel Discussion**  
**MODERATOR:** [Steven Brem, MD](#) | Activity Director | Neurosurgery

**PANEL:**

[Suyash Mohan, MD, PDCC](#) | Activity Co-Director | Radiology  
[Jennifer J.D. Morrisette, PhD](#) | Pathology & Laboratory Medicine  
[Ali Nabavizadeh, MD](#) | Radiology  
[MacLean Nasrallah, MD, PhD](#) | Pathology & Laboratory Medicine  
[Ganesh Rao, MD](#) | Neurosurgery | Baylor College of Medicine

**9:50 am**      **Stories of Patient Survivors: Navigating the Health Care System, Finding Information, Clinical Trials, Innovation, and Hope**  
[Kaileen M. Bevenour, PA-C](#) | Neuro-Oncology  
[Elizabeth Heisler, PA-C](#) | Neurosurgery  
[Meghan O'Neill, CRNP](#) | Medical Oncology

**10:20 am**      **Special Town Hall Meeting with Drs. Steven Brem and Nduka Amankulor for Patients, Caregivers, and Family Members**  
[Nduka M. Amankulor, MD](#) | Activity Director | Neurosurgery  
[Steven Brem, MD](#) | Activity Director | Neurosurgery

**10:35 am**      **Break**

## SCIENTIFIC SESSION II: NEURO-ONCOLOGY 2.0

**MODERATOR:** [Nduka M. Amankulor, MD](#) | Activity Director | Neurosurgery

**10:50 am**      **CAR T 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](#) | Activity-Co-Director | Hematology Oncology  
[Donald M. O'Rourke, MD](#) | Activity Co-Director | Neurosurgery

**11:20 am**      **Glioblastoma: Six Emerging Technologies in Search of a Cure**  
[Steven Brem, MD](#) | Activity Director | Neurosurgery



# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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**11:40 am**      **Optimizing Surgery and Immunotherapy for Gliomas using Advances in Genomics**  
[Nduka M. Amankulor, MD](#) | Activity Director | Neurosurgery

**12:00 pm**      **Q & A Panel Discussion**  
**MODERATORS:** [Nduka M. Amankulor, MD](#) Activity Director | Neurosurgery  
[Steven Brem, MD](#) | Activity Director | Neurosurgery

**PANEL:**

[Stephen J. Bagley, MD, MSCE](#) | Activity-Co-Director | Hematology Oncology  
[Zev Binder, MD, PhD](#) | Neurosurgery  
[Christina Jackson, MD](#) | Neurosurgery  
[Donald M. O'Rourke, MD](#) | Activity Co-Director | Neurosurgery

**12:15 pm**      **Lunch / 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: The INDIGO Trial and a Paradigm Change in the Treatment of IDH-mutant Low-Grade Gliomas**  
[Ingo K. Mellinghoff, MD, FACP](#) | Neuro-Oncology | Memorial Sloan Kettering

**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



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# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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## PANEL:

[Amy A. Pruitt, MD](#) | Neurology

[Ingo K. Mellinghoff, MD, FACP](#) | Neuro-Oncology | Memorial Sloan Kettering

[Saurabh R. Sinha, MD, PhD](#) | Neurology

## SCIENTIFIC SESSION IV: ADVANCES IN PRECISION SURGERY, MEDICAL AND RADIATION ONCOLOGY

**MODERATOR:** [Harper Hubbeling, MD](#) | Radiation Oncology

- 2:20 pm**      **Updates in Liquid Biopsy for Brain Tumors**  
[Stephen J. Bagley, MD, MSCE](#) | Activity-Co-Director | Hematology 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 Lebow, MD](#) | Radiation Oncology
- 3:05 pm**      **Updates in the Targeted and Immunological Treatment of Brain Metastases: Melanoma**  
[Tara C. Mitchell, MD](#) | Hematology 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
- 3:50 pm**      **Q & A Panel Discussion**  
**MODERATOR:** [Harper Hubbeling, MD](#) | Radiation Oncology





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## PANEL:

[Stephen J. Bagley, MD, MSCE](#) | Activity-Co-Director | Hematology Oncology

[Christina Jackson, MD](#) | Neurosurgery

[Emily Lebow, MD](#) | Radiation Oncology

[John Y.K. Lee, MD, MSCE](#) | Neurosurgery

[Peter J. Madsen, MD, MBE](#) | Neurosurgery

[Tara C. Mitchell, MD](#) | Medical Oncology

4:00 pm      Conference Adjourns

## 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 the week after the conference.

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/BloodCME2025](https://PennMedicine.org/Abramson/BloodCME2025)

*\*Recordings from the meeting will be available Thursday, February 6, 2025, through February 2026*

### Preliminary Data References

Please note that some of the studies reported in this CE activity may have been published as abstracts only and/or presented at a conference. In these cases, the references provided in individual presentations reflect that and will be easy for you to recognize. These data and conclusions are included because expert faculty found them to be potentially important scientific contributions but should be considered preliminary until published in a peer-reviewed journal.



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# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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## 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.

## Who Should Attend

This symposium is designed for neurosurgeons, neurooncologists, neurologists, neuroradiologists, radiologists, medical oncologists, radiation oncologists, pathologists, 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.

**We gratefully acknowledge the following companies for providing educational grants:**

**Guerbet**  
**Integra LifeSciences**



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# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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## Learning Objectives

Upon completion of this course, participants should be able to:

- Evaluate the latest advancements in brain cancer diagnosis and treatment.
- Review the role of innovative technologies like LITT, molecular profiling, and neuroimaging in improving patient care.
- Analyze the current landscape of CAR T-cell therapy for brain tumors and its future potential.
- Explore emerging technologies and strategies for optimizing surgery and immunotherapy for gliomas.
- Assess the impact of the INDIGO trial on the treatment of IDH-mutant low-grade gliomas.
- Gain practical knowledge in medical and symptom management for patients with brain tumors.
- Evaluate the latest advancements in liquid biopsy, radiation therapy, and targeted treatments for brain tumors.
- Explore the potential of mRNA technology and intraoperative molecular imaging in improving outcomes for brain tumor patients.

## 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.



Penn Medicine  
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# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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## Guests & Penn Medicine Faculty

### Activity Directors

#### **Nduka M. Amankulor, MD**

Presidential 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

### Activity Co-Directors

#### **Stephen J. Bagley, MD, MSCE**

Assistant Professor of Medicine (Hematology Oncology)  
Assistant Professor of Neurosurgery  
Section Chief, Neuro-Oncology, Hematology-Oncology  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
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#### **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 Philadelphia, PA,  
USA

#### **Goldie Kurtz, MD**

Assistant Professor of Radiation Oncology  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
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Penn Medicine  
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# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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## Activity Co-Directors (*continued*)

### **Suyash Mohan, MD, PDCC**

Associate Professor of Radiology & Neurosurgery Director, Neuroradiology Clinical Research  
Division Department of Radiology, Division of Neuroradiology Perelman School of Medicine at  
the University of Pennsylvania / Penn Medicine Philadelphia, PA, USA

### **Donald M. O'Rourke, MD**

John Templeton, Jr., M.D. Professor in Neurosurgery  
Director, Glioblastoma Translational Center of Excellence  
Director, Human Brain Tumor Tissue Bank  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

## Guests & Penn Faculty

### **Kaileen M. Bevenour, PA-C**

Physician Assistant (Hematology, Medical Oncology)  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

### **Zev Binder, MD, PhD**

Research Assistant Professor, Department of Neurosurgery  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

### **Elizabeth Heisler, PA-C**

Physician Assistant, Neurosurgery  
Penn Medicine  
Philadelphia, PA, USA

### **Christina Jackson, MD**

Assistant Professor of Neurosurgery  
Assistant Professor of Neurosurgery in Otorhinolaryngology: Head and Neck Surgery  
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**Emily Lebow, MD**

Assistant Professor of Radiation Oncology  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

**John Y.K. Lee, MD, MSCE**

Professor of Neurosurgery  
Medical Director, Gamma Knife Center  
Clinical Director, Center for Precision Surgery  
Director, Skull Base Surgery  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

**Peter J. Madsen, MD, MBE**

Assistant Professor of Neurosurgery  
Director, Neuro-oncology and Translational Research  
Children's Hospital of Philadelphia  
Philadelphia, PA, USA

**Ingo K. Mellinghoff, MD, FACP**

Chair, Department of Neurology  
Evnin Family Chair in Neuro-Oncology  
Memorial Sloan Kettering Cancer Center  
1275 York Avenue, New York, NY 10065

**Tara C. Mitchell, MD**

Associate Professor of Medicine (Hematology Oncology)  
Section Chief, Melanoma and Sarcoma, Hematology-Oncology  
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Penn Medicine  
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**Jennifer J.D. Morrisette, PhD**

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Clinical Director, Center for Personalized Diagnostics  
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Philadelphia, PA, USA

**Ali Nabavizadeh, MD**

Assistant Professor of Radiology  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
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**MacLean Nasrallah, MD, PhD**

Assistant Professor of Clinical Pathology and Laboratory Medicine  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

**Meghan O'Neill, CRNP**

Nurse Practitioner (Hematology, Medical Oncology)  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
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**Amy A. Pruitt, MD**

William N. Kelley Professor of Neurology  
Vice Chair of Education  
Advisory Dean  
Division Chief, General Neurology  
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**Harper Hubbeling, MD**

Assistant Professor of Radiation (Radiation Oncology)  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
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**Ganesh Rao, MD**

Marc J. Shapiro Professor and Chair  
Baylor College of Medicine  
Houston, TX  
USA

**Saurabh R. Sinha, MD, PhD**

Professor of Clinical Neurology & Vice-Chair for Neurodiagnostics  
Director of EEG Laboratories  
Program Director, Epilepsy & Clinical Neurophysiology Fellowships  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

**Robert H. Vonderheide, MD, DPhil**

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  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
Philadelphia, PA, USA

**Daniel Yoshor, MD**

Charles Harrison Frazier Professor of Neurosurgery  
Chair, Department of Neurosurgery  
Vice President, Clinical Integration and Innovation  
Perelman School of Medicine at the University of Pennsylvania / Penn Medicine  
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# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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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 Ansheai Spence-Jones), and the listed Planning Committee Members (Barbara Lopez, Hyacen Putmon, Jema Varnie and Gabrielle White) 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-C  
Zev Binder, MD, PhD  
Steven Brem, MD\*  
Arati Desai, MD  
Elizabeth Heisler, PA-C

Harper Hubbeling, MD  
John Y.K Lee, MD, MSCE  
Peter J. Madsen, MD, MBE  
MacLean Nasrallah, MD, PhD  
Meghan R. O'Neill, CRNP RN

Amy A. Pruitt, MD  
Emily Lebow, MD  
Robert H. Vonderheide, MD  
Daniel Yoshor, MD

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.

## FACULTY NAME

## DISCLOSURE(S)

Nduka M. Amankulor, MD\*

Consulting Fee-Johnson & Johnson

Stephen J. Bagley, MD\*

Grant or research support-Incyte Corporation | Membership on Advisory Committees or Review Panels, Board Membership, etc.-Kiyatec (Relationship has ended) | Grant or research support-Kite Pharma | Grant or research support-Eli Lilly (Relationship has ended) | Grant or research support-Novocure (Relationship has ended) | Grant or research support-Glaxo Smith Kline (Relationship has ended) | Grant or research support-C2i Genomics | Grant or research support-Tempus | Membership on Advisory Committees or Review Panels, Board Membership, etc.-Telix (Relationship has ended) | Membership on Advisory Committees or Review Panels, Board Membership, etc.-Servier (Relationship has ended)

Christina Jackson, MD

Consulting Fee-Stryker

Ingo K. Mellinghoff, MD, FACP

Grant or research support-Servier | Grant or research support-Global Coalition for Adaptive Research | Grant or research support-Erasca | Grant or research support-AbbVie, Inc. | Grant or research support-Roche | Speakers Bureau-Baptist Health Care | Advisor-Tango Therapeutics | Advisor-Pathos, Inc

# 12<sup>TH</sup> NEURO-ONCOLOGY BRAIN TUMOR SYMPOSIUM

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Tara C. Mitchell, MD

Honoraria-Merck & Co|Honoraria-Bristol-Myers Squibb|Honoraria-Pliant Therapeutics (Relationship has ended)|Honoraria-Pfizer (Relationship has ended)|Honoraria-GigaGen (Relationship has ended)

Suyash Mohan, MD, PDCC

Grant or research support-Novocure|Grant or research support-Galileo CDS

Jennifer J.D Morrisette, PhD

Advisor-AbbVie, Inc. (Relationship has ended)|Stocks or stock options, excluding diversified mutual funds of a publicly traded company-ThermoFisher

Ali Nabavizadeh, MD

Membership on Advisory Committees or Review Panels, Board Membership, etc.-Blue Earth Diagnostics|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Telix

Donald O'Rourke, MD\*

Royalties or Patent Beneficiary-Gilead Sciences, Inc|Paid consultant-Cellula|Royalties or Patent Beneficiary-University of Pennsylvania|Grant or research support-Tmunity Therapeutics (Relationship has ended)|Consulting Fee-Century Therapeutics (Relationship has ended)|Stocks or stock options, excluding diversified mutual funds of a publicly held company-Prescient Therapeutics|Stocks or stock options, excluding diversified mutual funds of a publicly held company-Implicyte|Stocks or stock options, excluding diversified mutual funds of a privately held company-Third Rock Ventures|Royalties or Patent Beneficiary-Elicio|Grant or research support-Novartis AMGEN (Relationship has ended)|Royalties or Patent Beneficiary-Novartis AMGEN|Grant or research support-Gilead Sciences, Inc

Ganesh Rao, MD

Advisor-Carthera|Advisor-Monteris

Saurabh R. Sinha, MD, PhD

Independent Contractor (included contracted research)-Blackthorn Therapeutics (Relationship has ended)|Independent Contractor (included contracted research)-Basilea Pharmaceutica|Independent Contractor (included contracted research)-Neumora Tx



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