

# 2020 Brain Metastasis Research Symposium

**May 8, 2020**

7:00 am Registration and Continental Breakfast

7:45 **Opening Remarks**

## **Targeting the Microenvironment in Brain Metastases**

Moderators: Anna S. Berghoff, MD, PhD and Patricia S. Steeg, PhD

8:00 **Targeting Angiogenesis and the Early Steps of Brain Colonization: New Approaches Against Brain Metastasis**  
Frank Winkler, MD

8:25 **Microenvironmental Contribution of the Choroid Plexus and Cerebral Spinal Fluid in Breast and Brain Metastases**  
Josh Neman-Ebrahim, PhD

8:50 **Comparative Immune Biology Between Brain Metastasis and Primary Gliomas Accounts for Immune Therapeutic Responses**  
Amy B. Heimberger, MD

## **Molecular Biology of Brain Metastases – Targeted Therapy**

Moderators: James Welsh, MD and Frederick F. Lang, MD

9:15 **Evolving Clinical Paradigms In Brain Metastases: Genomics As A Tool**  
Priscilla K. Brastianos, MD

9:35 **Molecular, Immune and Metabolic Features of Melanoma Brain Metastasis**  
Michael A. Davies, MD, PhD

9:55 **A New Link with Neurodegeneration: Role for Amyloid Beta in Melanoma Brain Metastasis**  
Eva Hernando, PhD

10:15        **Breast Cancer Brain Metastases: Clinical and Scientific Challenges**  
Rashmi K. Murthy, MD

10:35        Break

**Panel Discussion: Brain Penetrant Drugs**

Moderators: Rashmi K. Murthy, MD and Barbara O'Brien, MD

10:50        **Understanding Patterns of Brain Metastasis In Breast Cancer and  
Designing Rational Therapeutic Strategies**  
Carey K. Anders, MD

11:10        **Stereotactic Radiosurgery of Early Melanoma Brain Metastases After  
Initiation of Anti-CTLA-4 Treatment Improves Intracranial Control**  
Betty Y.S. Kim, MD, PhD

11:30        **Window of Opportunity Approaches and Image Guided Sampling to  
Measure and Characterize Drug Activity in Brain Metastases**  
Nelson Moss, MD

**Oral Abstracts**

Moderators: Mary F. McAleer, MD, PhD and Adrienne A. Boire, MD, PhD

11:50        **Oral #1**  
Presenter TBD

11:58        **Oral #2**  
Presenter TBD

12:06        **Oral #3**  
Presenter TBD

12:14        **Oral #4**  
Presenter TBD

12:22        **Oral #5**  
Presenter TBD

12:30 pm    Lunch (provided)

## **Radiation Interacting with the Immune System – Therapeutic Benefits & Toxicities**

Moderators: Jing Li, MD and Fabio Moraes, MD, PhD

- 1:30            **The Challenge of Brain Metastases in Breast Cancer**  
                      Silvia Formenti, MD
- 1:55            **Using Radiation to Overcome Checkpoint Resistance**  
                      James Welsh, MD (No CME)
- 2:20            **Surgical Management of In-Field Recurrence of Metastatic Lesions in the Era of Immunotherapy**  
                      Veronica Chiang, MD
- 2:45            Break

### **Concurrent Workshop: Preclinical Models**

Moderators: Bisrat G. Debeb, PhD and Manuel Valiente, PhD

- 3:00            **Exploiting the Translational Potential of Established and New Experimental Brain Metastasis Models**  
                      Manuel Valiente, PhD
- 3:18            **Brain Metastasis In Inflammatory Breast Cancer: New Models and Therapeutic Targets**  
                      Bisrat G. Debeb, PhD
- 3:36            **Cancer Cells Overcome Sparse Extracellular Iron to Support Leptomeningeal Growth**  
                      Adrienne A. Boire, MD, PhD
- 3:54            **Melanoma Brain Metastasis: Mechanisms, Models, and Medicine**  
                      Sheri L. Holmen, PhD
- 4:12            **Paracellular and Transcytotic Permeability of the Blood-Tumor Barrier in Brain Metastases of Breast Cancer**  
                      Patricia S. Steeg, PhD

## **Concurrent Workshop: Clinical Trials**

Moderators: Caroline Chung, MD and Hussein Tawbi, MD, PhD

- 3:00            **Considerations for Immunotherapy Clinical Trial Design in Patients with Brain Metastases**  
Hussein Tawbi, MD, PhD
- 3:36            **Clinical Trials in Leptomeningeal Disease**  
Priya U. Kumthekar, MD
- 3:54            **Surgical Integration in Clinical Trials**  
Sherise Ferguson, MD
- 4:12            **Reliably Testing A Radiotherapy Hypothesis: Lessons Learned From the Hippocampal Avoidance Trials**  
Vinai Gondi, MD
- 4:30            Group Photo of Organizing Committee
- 5:00 pm        Adjourn and Reception/Poster Viewing
- 6:30            Transportation to Restaurant
- 7:00 pm        Symposium Dinner

## May 9, 2020

7:30 am Registration and Continental Breakfast

8:30 **Report Out from the Workshops**

***Preclinical Models and Clinical Trials***

Hussein Tawbi, MD, PhD and Manuel Valiente, PhD

### **Oral Abstracts**

Moderators: Nana Yeboa, MD and Jianbo Wang, MD, PhD

9:30 **Oral #1**

Presenter TBD

9:38 **Oral #2**

Presenter TBD

9:46 **Oral #3**

Presenter TBD

9:54 **Oral #4**

Presenter TBD

10:02 **Oral #5**

Presenter TBD

10:10 Break

### **Clinical Trial vs. Real World Data**

Moderators: Komal Shah, MD and Vinai Gondi, MD

10:30 **Optimizing Data Collection to Learn From Every Brain Mets Patient**

Caroline Chung, MD

10:45 **Biomarkers in Brain Metastases**

Anna S. Berghoff, MD, PhD

- 11:00      **All Roads Lead to Rome: Neurocognitive Endpoints in Brain Metastasis Clinical Trials**  
Jeffrey S. Wefel, PhD
- 11:15      **Genomic Identification of Brain Metastasis Drivers**  
Scott L. Carter, PhD
- 11:30      **Panel Discussion**  
Moderators: Carey K. Anders, MD and Priscilla K. Brastianos, MD
- Panelists:** Anna S. Berghoff, MD, PhD; Scott L. Carter, PhD; Caroline Chung, MD, Vinai Gondi, MD and Jeffrey S. Wefel, PhD
- 12:30 pm      Closing Remarks
- 1:00 pm      Adjourn