

Conference Program

Wednesday, May 27

7:00 p.m.-8:00 p.m. Welcome and Opening Keynote Address
Regency Ballroom
Session Chairperson: Franziska Michor, Dana-Farber Cancer Institute, Boston, MA

Genomic alterations and targeted therapies in glioblastoma: Opportunities and challenges
Matthew L. Meyerson, Harvard Medical School/Dana-Farber Cancer Institute, Boston, MA

8:00 p.m.-9:30 p.m. Opening Reception
Empire Ballroom

Thursday, May 28

7:00 a.m.-8:00 a.m. Breakfast
Regency Gallery/Bird Cage Walk

8:00 a.m.-8:45 a.m. Keynote Address
Regency Ballroom
Session Chairperson: Eric C. Holland, Fred Hutchinson Cancer Research Center, Seattle, WA

Molecular pathogenesis of IDH mutant cancers and evolving treatment strategies
William G. Kaelin, Jr., Harvard Medical School/Dana-Farber Cancer Institute, Boston, MA

8:45 a.m.-10:45 a.m. Plenary Session 1: Computational Genomics and Evolutionary Dynamics: Creative Ways to Analyze Big Datasets
Regency Ballroom
Session Chairperson: Andrea Califano, Columbia University, New York, NY

How tumor evolution may subvert genomically targeted therapy in glioblastoma
Cameron W. Brennan, Memorial Sloan Kettering Cancer Center, New York, NY

Understanding tumor heterogeneity in glioblastoma
Simon Tavaré, Cancer Research UK Cambridge Institute, Cambridge, United Kingdom

Title to be announced
Franziska Michor, Dana-Farber Cancer Institute, Boston, MA

A precision medicine framework for brain tumors
Andrea Califano

10:45 a.m.-11:00 a.m. Break
Regency Gallery/ Bird Cage Walk

11:00 a.m.-1:00 p.m. Plenary Session 2: Emerging New Technologies: Application to Brain Tumors
Regency Ballroom
Session Chairperson: David Largaespada, University of Minnesota, Minneapolis, MN

Clinical genomic studies of glioblastoma
Robert B. Darnell, Rockefeller University, New York, NY

Multilayered characterization of the cancer epigenome
Ari M. Melnick, Weill Cornell Medical College of Cornell University, New York, NY

Imaging to guide genomics and epigenomics of glioma
Joseph F. Costello, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

Transposon-based mouse models of medulloblastoma and central nervous system-primitive neuroectodermal tumors: Molecular subtypes and novel drivers
David Largaespada

1:00 p.m.-1:45 p.m. Short Talks from Proffered Papers A
Regency Ballroom
Session Chairperson: Stephen C. Mack, Cleveland Clinic Lerner Research Institute, Cleveland, OH

Modeling tumor stem cell heterogeneity through human glioblastoma organoids
Christopher Hubert, Cleveland Clinic Lerner Research Institute, Cleveland, OH

Somatic CRISPR/Cas9-mediated tumor suppressor disruption enables versatile brain tumor modeling
Jan Gronych, German Cancer Research Center, Heidelberg, Germany

Myxopapillary spinal ependymomas demonstrate a Warburg phenotype
Stephen C. Mack

1:45 p.m.-4:30 p.m. Poster Session A / Lunch
Ambassador Ballroom

4:30 p.m.-6:30 p.m. Plenary Session 3: Metabolism/IDH/Epigenetics
Regency Ballroom
Session Chairperson: Suzanne J. Baker, St. Jude Children's Research Hospital, Memphis, TN

Targeting enhancers in CNS tumors

James E. Bradner, Harvard Medical School/Dana-Farber Cancer Institute, Boston, MA

Investigating the functional consequences of ATRX deficiency in glioma

Jason T. Huse, Memorial Sloan Kettering Cancer Center, New York, NY

Elucidating and targeting the molecular foundations of IDH mutant glioma

Timothy A. Chan, Memorial Sloan Kettering Cancer Center, New York, NY

The unique genomic landscape of pediatric high-grade glioma

Suzanne J. Baker

6:30 p.m.- Evening Off/Dinner on Own

Friday, May 29

7:00 a.m.-8:00 a.m. Breakfast
Regency Gallery/Bird Cage Walk

8:00 a.m.-8:45 a.m. Keynote Address
Regency Ballroom
Session Chairperson: Martine F. Roussel, St. Jude Children's Research Hospital, Memphis, TN

Brain metastasis niches and vital pathways

Joan Massagué, Memorial Sloan Kettering Cancer Center, New York, NY

8:45 a.m.-10:15 a.m. Plenary Session 4: Mutational Landscape in Brain Tumors
Regency Ballroom
Session Chairperson: Nada Jabado, Montreal Children's Hospital Research Institute, Montreal, QC, Canada

Genomic landscape of meningiomas

Murat Günel, Yale University, New Haven, CT

Genomic-epigenomic interplay in medulloblastoma

Paul Northcott, St. Jude Children's Research Hospital, Memphis, TN

Epigenetic addiction in pediatric high-grade gliomas

Nada Jabado

10:15 a.m.-10:30 a.m. Break
Regency Gallery/Bird Cage Walk

10:30 a.m.-12:30 p.m. Plenary Session 5: Preclinical Therapeutics/Trials/Models
Regency Ballroom
Session Chairperson: Oren J. Becher, Duke University, Durham, NC

Modeling blood-CNS barriers in zebrafish
Michael R. Taylor, University of Wisconsin, Madison, WI

Modeling brain tumors in mice
Eric C. Holland, Fred Hutchinson Cancer Research Center, Seattle, WA

Pediatric medulloblastoma: Drug screens and preclinical studies
Martine F. Roussel, St. Jude Children's Research Hospital, Memphis, TN

Developing improved diffuse intrinsic pontine glioma mouse models
Oren J. Becher

12:30 p.m.-3:00 p.m. Free Time/Lunch on Own

3:00 p.m.-3:45 p.m. Short Talks from Proffered Papers B
Regency Ballroom
*Session Chairperson: Priscilla K. Brastianos, Harvard Medical School/
Massachusetts General Hospital, Boston, MA*

Genomic characterization of brain metastases reveals branched evolution and metastasis-specific mutations
Priscilla K. Brastianos

Interrogation of subclonal genetic diversity of human GBM reveals genetic heterogeneity in tumor-propagating cells in GBM, which display variable competitive capacity for tumor propagation in vivo
Colin Watts, University of Cambridge, Cambridge, United Kingdom

CSF1 signaling is a potential therapeutic target for glioma
Lara S. Collier, University of Wisconsin Comprehensive Cancer Center, Madison, WI

3:45 p.m.-6:30 p.m. Poster Session B
Ambassador Ballroom

6:30 p.m.- Evening Off/Dinner on Own

Saturday, May 30

7:00 a.m.-8:00 a.m. Breakfast
Regency Gallery/ Bird Cage Walk

8:00 a.m.-9:30 a.m. Plenary Session 6: Tumor Microenvironment
Regency Ballroom
Session Chairperson: Johanna A. Joyce, Memorial Sloan Kettering Cancer Center, New York, NY

Medulloblastoma subgroup-specific mutations model the tumor microenvironment
Richard J. Gilbertson, St. Jude Children's Research Hospital, Memphis, TN

Understanding and tackling differing vascular niches in glioma
Gabriele Bergers, University of California, San Francisco, California

Deciphering mechanisms of resistance to microenvironment-targeted therapies
Johanna A. Joyce

9:30 a.m.-9:45 a.m. Break
Regency Gallery/Bird Cage Walk

9:45 a.m.-11:15 a.m. Plenary Session 7: Metastasis
Regency Ballroom
Session Chairperson: Michael D. Taylor, University of Toronto Hospital for Sick Children, Toronto, ON, Canada

Genomic analyses of brain metastases
Rameen Beroukhim, Dana-Farber Cancer Institute, Boston, MA

Functional genomics identifies drivers of medulloblastoma dissemination
Daniel W. Fults, University of Utah, Salt Lake City, UT

Facts and fictions in the dissemination of medulloblastoma
Michael D. Taylor

11:15 a.m. Departure