

**Draft Agenda**

**Format: 15 minute presentations, 10 minutes for discussion**

**Feb. 18 (Day 1):**

**Welcome and Goals of the Workshop: Judy Mietz and Malcolm Smith**  
**8:15-8:30**

**Morning Session: 8:30-11:45**

**Session Chair: Suzanne Baker**

**The clinical and genetic context of histone H3 mutations in pediatric brain tumors**

Kathy Warren, NCI

Clinical trials for pediatric brain tumors

Suzanne Baker, St Jude Children's Research Hospital

Genomics of DIPG, in vitro and in vivo brain tumor models

Nada Jabado, McGill University

ATRX mutations, Histone H3 mutations and DNA methylation signatures

**Break: 10:30-10:45**

Cynthia Hawkins, The Hospital for Sick Children

Histone H3 mutations and gene expression

Vivianne Tabar, Memorial Sloan Kettering Cancer Center

Developmental Cell of Origin for DIPG

Adrienne Flanagan, University College London

Histone H3 mutations in chondroblastoma and giant cell tumor of bone

**Lunch: 11:45-1:00**

**Afternoon Sessions, Chair: C. David Allis**

**Session 1: 1:00-2:30**

**Chromatin Structure and Function**

C David Allis, The Rockefeller University

Regulation and functional consequences of the histone code: an overview

Carl Wu, HHMI, Janelia Farm

ATP-dependent chromatin remodeling and the dynamics of histone H2A.Z

Yang Shi, Harvard

Histone methylation

**Break: 2:30-2:45**

**Afternoon Session 2: 2:45-4:45**

**The impact of histone H3 mutations on chromatin**

Peter Lewis, University of Wisconsin

Functional effects of H3 mutations and ATRX/DAXX/H3 interactions

Zhiguo Zhang, Mayo Clinic

K27M mutation and gene expression

Yoon-Jae Cho, Stanford University

H3K27me3, DNA methylation and gene expression in K27M mutant gliomas

Chris Jones, Institute for Cancer Research, UK

G34 mutations and MYCN regulation

**Dinner**

**February 19 (Day 2)**

**Session 1: 8:30-10:30 AM**

**Session Chair: Suzanne Baker**

**In vivo modeling of histone H3 mutations**

Michelle Monje, Stanford

Epigenetic regulation of white matter plasticity in the developing brain

Oren Becher, Duke University

Mouse Models of DIPG

Janet Partridge, St Jude Children's Research Hospital

Functional analysis of H3 mutations in yeast

C. David James, UCSF

Preclinical testing with xenograft models

**Break: 10:30-10:45 AM**

**Session 2: 10:45-12:15**

**Session Chair: C. David Allis**

**Drug development activities surrounding agents that modify the activity of histone readers, writers, and erasers.**

Manuel Muller, Princeton

Chemical biology and chromatin regulation

James Bradner, Dana Farber

Chemical biology, Compounds to modulate histone binding and modification

Robert Copeland, Epizyme

Personalized Therapeutics and Epigenetics

**12:15-12:45: Closing Comments and Discussion**

**Moderators; C. David Allis and Suzanne Baker**