



**NCI Symposium on Chromosome Biology
Genome-wide Chromatin Structure and Function
Natcher Auditorium, NIH, Bethesda, MD
October 30–31, 2008**

Thursday, October 30, 2008

- 8:30 a.m. **Welcome and Introductions**
Jeffery Strathern, Ph.D., NCI-CCR Deputy Director
Gordon Hager, Ph.D., National Cancer Institute, Symposium chair
- 8:45 a.m. **SESSION 1:** Chair, Gordon Hager, Ph.D., National Cancer Institute
- 8:45 a.m. **"Genome-wide Profiling of Chromatin Structure"**
John Stamatoyannopoulos, Ph.D., University of Washington
- 9:15 a.m. **"Global Functions of ATP-Dependent Chromatin Remodeling"**
Toshi Tsukiyama, Ph.D., D.V.M., Fred Hutchinson Cancer Research Center
- 9:45 a.m. Break
- 10:15 a.m. **"Characterization of Genome-wide Chromatin Modification Patterns"**
Keji Zhao, Ph.D., National Heart, Lung, and Blood Institute
- 10:45 a.m. **"The Evolution of Chromatin Proteins and Prediction of Novel Factors in Chromatin Dynamics"**
L. Avavind, Ph.D., National Center for Biotechnology Information
- 11:15 a.m. **"Deciphering the Regulatory Landscape of the Human Genome"**
Ivan Ovcharenko, Ph.D., National Center for Biotechnology Information
- 11:45 a.m.–2:30 p.m. Lunch Break and Poster Viewing
- 2:30 p.m. **SESSION 2:** Chair, Jeff Strathern, Ph.D., National Cancer Institute
- 2:30 p.m. **"Assembly of the Epigenetic Centromere"**
Donald Cleveland, Ph.D., University of California, San Diego
- 3:00 p.m. **"Genomic Features Guide Selection of Replication Origins in Breast Cancer"**
Paul Meltzer, M.D., National Cancer Institute

- 3:30 p.m. **"Global Reorganization of Replication Domains During Embryonic Stem Cell Differentiation"**
David Gilbert, Ph.D., Florida State University
- 4:00 p.m. Break
- 4:30 p.m. **"Jumping Genomics: Variation Between Mouse Strains Due to Endogenous Retrotransposition"**
David Symer, M.D., Ph.D., National Cancer Institute
- 5:00 p.m. **"Epigenetic Regulation of Centromere Structure and Function in *S. cerevisiae*"**
Munira Basrai, Ph.D., National Cancer Institute
- 5:30 p.m. **"Whole-Genome Approaches to the Study of Meiotic Recombination"**
Michael Lichten, Ph.D., National Cancer Institute
- 6:00 p.m. Adjourn

Friday, October 31, 2008

- 8:30 a.m. **SESSION 3:** Chair, Yamini Dalal, Ph.D., National Cancer Institute
- 8:30 a.m. **“Chromosome Interactions During Meiosis in *C. elegans*”**
Abby Dernburg, Ph.D., Lawrence Berkeley National Laboratory, University of California, Berkeley
- 9:00 a.m. **“Dynamic Chromosomal Interactions Between the *c-Myc* locus and the *Myc*-Regulatory Network Gene Loci Mediated by SATB1”**
Terumi Kohwi-Shigematsu, Ph.D., Lawrence Berkeley National Laboratory, University of California
- 9:30 a.m. **"Interchromosomal Mediated Epigenetic Silencing Across Generations"**
Vicki Chandler, Ph.D., University of Arizona
- 10:00 a.m. Break
- 10:30 a.m. **"Genomic and Epigenetic Mechanisms of Centromere Specification in Humans"**
Beth Sullivan, Ph.D., Duke University
- 11:00 a.m. **"4C Technology: Uncovering the Multidimensional Structure of the Genome"**
Wouter de Laat, Ph.D., Erasmus MC, University Medical Centre
- 11:30 a.m. Lunch Break
- 12:45 p.m. **SESSION 4:** Chair, Michael Bustin, Ph.D., National Cancer Institute
- 12:45 p.m. **“Nuclear Architecture Studied by Microscopy: Where We Stand and Where to Go”**
Thomas Cremer, Dr. Med., Ludwig-Maximilians-University Munich
- 1:15 p.m. **"Epigenetic Genome Control by RNAi and Transposon-Derived Proteins"**
Shiv Grewal, Ph.D., National Cancer Institute
- 1:45 p.m. **“Preferential Associations Between Co-Regulated Genes Reveal a Transcriptional Interactome”**
Peter Fraser, Ph.D., Babraham Institute
- 2:15 p.m. **"Factors Required to Maintain Compact Chromatin Structure in Stem Cells"**
Wendy Bickmore, Ph.D., MRC Human Genetics Unit, Western General Hospital
- 2:45 p.m. Adjourn