

***SCIENTIFIC PROGRAM***

**29<sup>th</sup> Annual International  
Asilomar Chromatin & Chromosomes  
Conference**

**December 13-16, 2007  
Asilomar Conference Grounds  
Pacific Grove, CA**



**Organizers:**

**Mike Goldman, San Francisco State University  
Jeff Hansen, Colorado State University, Fort Collins  
Cynthia McMurray, Mayo Clinic**

**Sponsors**

**NIH**

**Biochemistry &  
Cell Biology  
Journal**

**ACTIVE MOTIF<sup>®</sup>**

Tools to Analyze  
Nuclear Function

***Check-in at the Asilomar Front Desk in the Administration Building – Asilomar recognizes our meeting as the “West Coast Chromatin & Chromosomes Conference”***

**Meeting Reminders:**

All meeting sessions, socials, refreshments will be in **Heather (North Woods)**.

**ALL SPEAKERS:** We have a very tight schedule this year. **PLEASE** plan your talks to be a **12 minute presentation** + **3 additional minutes** for questions. **Session chairs** have **20 minute presentation** + **5 additional minutes** for questions

Please upload your talks as early as possible--by 5:30pm for evening sessions and by 10:30pm the night before morning sessions.

Soft drinks, beer, wine, and snacks will be served in the meeting room (Heather) by Asilomar personnel from **5-6 pm on Friday and Saturday nights**, and from **9-11 pm on Thursday-Saturday nights**.

Please request your Sunday Box Lunch by **Friday NOON**—sign-up list available in the meeting room

Please give Mike Goldman or Jim Davie an electronic copy of your abstract for publication in a special issue of **BIOCHEMISTRY AND CELL BIOLOGY** (or e-mail it to Mike Goldman immediately after the meeting)

**Opening Social:**

**Thursday, December 13, 2007: 4:30 pm – 6:00 pm**

Refreshments in Heather (North Woods)

**Dinner 6:00 pm – 7:00 pm**

***Schedule of Talks***

**Thursday, December 13, 2007: 7:00 pm – 9:30 pm**

**7:00 - 7:15 pm**

Welcome!

**CHROMOSOMAL ASSEMBLIES: 7:15–9:30 pm**

**Ray Reeves, Chairperson**

Ray Reeves  
Washington State University  
HMGA Proteins, DNA Repair and Cancer

Yamini Dalal  
Fred Hutchinson Cancer Research Center  
How the Centromere Got Its Groove

Terace Fletcher  
University of Miami School of Medicine  
Structural Analysis of TRF2-Telomeric Nucleosomal Fiber Complexes

**--15 min break--**

Barbara Mellone  
Lawrence Berkeley National Laboratory/UC Berkeley  
Centromere Formation and Inheritance in *Drosophila* Cells

JJ Miranda  
University of California, San Francisco  
Structuring Genome Insulation

Philippe Georgel  
Marshall University  
A New Twist on GAGA Factor

Adam Hall  
Marshall University  
Role of CHD-1 in Salivary Gland Differentiation

**Refreshments available at end of evening session**

**Friday, December 14, 2007: 9:00 am – 12:00 pm**

**NUCLEAR PROTEINS**  
**Sarah C.R. Elgin, Chairperson**

Sarah C.R. Elgin  
Washington University  
Chromatin Structure and Gene Expression in *Drosophila*: Targeting Heterochromatin Formation

Missag Parseghian  
Peregrine Pharmaceuticals, Inc.  
Evicting Hitchhiker Chromatin that Stows Away On Your Antibodies: How It Could Effect Your Results

Lindsay Frelick  
University of Victoria  
Sperm Nuclear Basic Proteins in Fish and Amphibians

Melissa Koch  
University of California, San Diego  
Gas1p Functions in Transcriptional Silencing in the Yeast *Saccharomyces cerevisiae*

Kathryn Kurtz  
University of Barcelona  
Nucleosomes and Histones Found in Crustacean Sperm Previously Described as Lacking in DNA-Associated Proteins

**--15 min break --**

Nancy Levesque  
University of British Columbia  
Shared Function Between the NuA4 and SWR1 Complexes

Shumin Wu  
University of Southern California  
Human SFMBT Is a Transcriptional Repressor Protein That Selectively Binds the N-Terminal Tail of Histone H3

Carolyn Napoli  
University of Arizona  
Evolution of the Plant Chromatin Proteome

Kevin Tong  
Boston College  
Characterization of the HAT1 Complex in *Schizosaccharomyces pombe*

Keely Sudhoff  
Colorado State University  
Investigating the structure and function of yeast histone chaperone, Vps75

**Pre-Dinner Social (Heather) 5:00 pm – 6:00 pm**  
**Dinner 6:00 pm – 7:00 pm**

**Friday, December 14, 2007: 7:00 pm – 9:45 pm**

**REPAIR AND REPLICATION**  
**John Tainer, Chairperson**

John Tainer  
Scripps Research Institute  
Mre11/Rad50/Nbs1 Acts As a Keystone Complex Connecting DNA Repair Machinery, Break Signaling, and the Chromatin Template and Brc1 Mediates Checkpoint Signaling

Jocelyn Krebs  
University of Alaska Anchorage  
H2A modification in diverse DNA repair pathways

Maxime Trembley  
University of Sherbrooke  
Nucleotide Excision Repair in Nucleosomal and Non-Nucleosomal DNA

Deidre Fahy  
Washington State University  
Role of the Mammalian SWI/SNF Chromatin Remodeling Complex in the Cellular Response to UV Damage

**--20 min break--**

Feng Gong  
University of Miami  
Role of the Mammalian SWI/SNF Chromatin Remodeling Complex in the Cellular Response to UV Damage

Alexandra Fok  
Centre for Molecular Medicine and Therapeutics  
BRCT Domain Proteins as Scaffold in the DNA Damage Response

Mathew Thayer  
Oregon Health and Science University  
Control of Mammalian Autosome Replication Timing by a Cis-Acting Mechanism

Ryan Heit  
University of Alberta  
Mitosis Specific Histone Methylation

**Refreshments available at end of evening session**

**Saturday, December 15, 2007: 9:00 am – 12:00 pm**

**REMODELING, POST-TRANSLATIONAL MODIFICATIONS, AND NUCLEAR  
FUNCTION**

**Barbara Panning, Chairperson**

Barbara Panning  
University of California, San Francisco  
The Tip60-p400 complex regulates embryonic stem cell self-renewal

Ning Liu  
University of Rochester  
Probing the Mechanism of Swi/Snf Remodeling Using Intra-Histone Crosslinking

Jakob Waterborg  
University of Missouri - Kansas City  
Functional Analysis of the Histone H3 Variants of *Ustilago maydis*

David Clark  
NIH  
Cell Cycle Regulation of Histone Genes in Yeast

Paul Wade  
NIEHS  
The Mi2/NURD Complex

**--15 min break--**

Shannon Uffenbeck  
University of Alaska, Anchorage  
Role of Histone H2A Tails During Stress Response in *Saccharomyces cerevisiae*

Chris Barnett  
University of Alaska, Anchorage  
The Role of WSTF in Neural Development of *Xenopus laevis*

Giulia Ruben  
University of California, Santa Cruz  
The Role of Nup2 in Chromatin Organization

Serafin U. Colmenares  
Lawrence Berkeley National Laboratory  
Mechanism of siRNA Generation and RNAi Assembly in Fission Yeast Centromeres

John Th'ng  
Thunder Bay Regional Health Sciences Centre  
TBD

**Pre-Dinner Social (Heather) 5:00 pm – 6:00 pm**  
**Dinner 6:00 pm – 7:00 pm**

**Saturday, December 15, 2007: 7:00 pm – 9:45 pm**

**DNA AND CHROMATIN BINDING PROTEINS**  
**Jerry Workman, Chairperson**

Jerry Workman  
Stowers Institute  
HAT functions in yeast and flies

Keyur Adhvaryu  
University of Oregon  
Control of DNA Methylation in *Neurospora*

Duc Phuc Do  
Mercer University College of Pharmacy and Health Sciences  
Changes in Global Histone Modifications Induced By Fertilization

Anne Lafon  
University of California, San Diego  
Screen for Gene Dosage Suppression to Distinguish Sas3 and Gcn5 Functions in Histone Acetylation

**-- 15 min break --**

Judd C. Rice  
University of Southern California  
Monomethylation of Histone H4 Lysine 20 is Required For Cell Cycle Progression and Genomic Stability

Jennifer Sims  
University of Southern California  
Histone H4 Lysine 20 Monomethylation Regulates Hematopoietic Differentiation

Tanya Spektor  
University of Southern California  
Mammalian Tethered Catalysis: A Novel Approach to Identify Post-Translational Modification-Specific Binding Proteins *in vivo*

Jianmin Sun  
Manitoba Institute of Cell Biology, CancerCare, Manitoba  
Phosphorylated Serine 28 of Histone H3 Is Associated With Destabilized Nucleosomes in Transcribed Chromatin

Leanna Tsang  
University of Alberta  
Characterization of Histone H4-K20 Methylation Machinery and its Function during Cell Differentiation

**Refreshments available at end of evening session**

**Sunday, December 16, 2007: 9:00 am – 12:00 pm**

**CHROMATIN STRUCTURE**  
**David Tremethick, Chairperson**

David Tremethick  
Australian National University  
What we have learned from studying deviant chromatin

Toyotaka Ishibashi  
University of Victoria  
MBD4-Mediated Glycosylase Activity on a Nucleosome Template

Laimonas Kelbauskas  
Arizona State University  
Sequence-Dependent Nucleosome Stability and Dynamics as a Factor In Genetic Regulation and Targeting

**--20 min break--**

Christophe Lavelle  
Insitut Curie (France)  
Nucleosome Polymorphism and Dynamics

LiYun Lin  
Arizona State University  
Aptamer Selection for Acetylated H4 Histone

Nikhil Raghuram  
University of Alberta  
Differential response of H1 variants to core histone acetylation

Jeff Hansen  
Colorado State University  
A tall tale of the tails