

Mechanisms of Eukaryotic Transcription

Session 1 GENOMICS

WEDNESDAY 8/29/2007, 7:30 PM

J. Lis

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
1	Young	Regulatory circuitry of human embryonic stem cells	16
2	Hollenhorst	Genome-wide analyses reveal properties of redundant and specific promoter occupancy within the ETS gene family	12
3	Farnham	Using ChIP-chip to characterize mechanisms of transcriptional repression in pluripotent and differentiated mammalian cells	16
4	Zhao	High-resolution profiling of histone modifications in the human genome	16
5	Cheung	A genome-wide map of long-range chromosome interactions identified by Chromatin Interaction Assay-Paried-End-diTag (ChIA-PET)	8
6	Cairns	The dynamic transcriptome of fission yeast, and its guidance by chromatin	16
7	Adelman	RNA polymerase is poised for rapid activation across the genome	12
8	Pugh	Genomic organization of chromatin and the transcription machinery in <i>S. cerevisiae</i>	16
9	Kingston	Regulatory changes in protein composition and structure of chromatin	16

Session 2 INITIATION-ACTIVATION

THURSDAY 8/30/2007, 9:00 AM

C. Wolberger

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
10	Kadonaga	Studies of the RNA polymerase II core promoter	16
11	Cramer	Structure-function analysis of Pol II and Pol I	16
12	Kaplan	The <i>S. cerevisiae</i> RNA polymerase II trigger loop selects NTP substrates and is the target of α -amanitin	12
13	Chen	The positions of TFIIIF and TFIIIE in the RNA polymerase II preinitiation complex reveal a protein network involved in transcription start site selection	12
14	Timmers	TFIID complexes—Dynamics, mitosis and histone methylation	12
15	Khaperskyy	Alterations in transcription start site utilization conferred by yeast TFIIIF and RNAPII mutants correlate with changes in processivity	8
16	Reece	Understanding a transcriptional paradigm at the molecular level—Structure of the <i>GAL</i> genetic switch	12
17	Panne	Structure of the interferon- β enhanceosome	12
18	Brown	FoxA1 tranlastes epigenetic signatures into cell-specific transcriptional programs	16
19	Zenklusen	Single transcript counting reveals fundamental rules for gene expression in yeast	8

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
20	Nibu	The transcriptional corepressor dCtBP locally inhibits nearby activators in the <i>Drosophila</i> embryo	
21	Alendar	Identification and characterization of the novel gene <i>Obx</i>	
22	Andersen	In silico detection of sequence variations with the potential to modify transcriptional regulation	
23	Michaelis	Single molecule tracking of RNA exiting from RNA polymerase II	
24	Apweiler	Delineating the <i>S. cerevisiae</i> Ras/PKA pathway by expression profiling	
25	Baarlink	MARSS—A novel player in SRF regulation acts via inhibition of its cofactor MAL	
26	Bäckström	Purification of a plant mediator from <i>A. thaliana</i> identifies PFT1 as the Med25 subunit	
27	Bhaumik	A novel regulatory pathway of eukaryotic transcription activation by mRNA cap-binding complex in vivo	
28	Balamotis	TCF factor exchange at the <i>Egr1</i> promoter influences mediator recruitment and transcription	
29	Walsh	The <i>JmjC</i> -containing ubiquitously transcribed tetratricopeptide repeat, X (UTX) protein cooperates with different complexes as a lysine demethylase for nucleosomal histone H3K4 and H3K9	
30	Barakat	TBP recruitment to the U1 gene promoter is disrupted by substituting a U6 proximal sequence element (PSEA) for the U1 PSEA	
31	Barboric	Intracellular nucleotide pool modulates the equilibrium between active and inactive P-TEFb	
32	Bensaude	Transcription-dependent dissociation of P-TEFb.HEXIM1.7SK RNA relies upon formation of hnRNP.7SK RNA complexes	
33	Beaulieu	Contribution of N-terminal degradation to the transactivation potential of different isoforms of the MHC class II transactivator CIITA	
34	Bell	Localized H3K36 methylation states define histone H4K16 acetylation during transcriptional elongation in <i>Drosophila</i>	
35	Bina	A database for predicting the genes controlled by regulatory signals in human genomic DNA	
36	Bjornsdottir	Biochemical studies of TATA-dependent and TATA-less transcription in <i>S. cerevisiae</i>	
37	Black	Identification of a p300 deacetylase and its role in gene regulation	
38	Boeing	Novel roles of Mediator in basal and VP16-activated transcription	
39	Boyanapalli	Binding of NFAT1 to cJUN synergistically activates IL-2 transcription—Identification of a peptide that blocks inducible transcription in T cells	
40	Bryant	Glucose repression of the yeast <i>GAL</i> genes does not require nucleosomes	
41	Bunting	c-Rel controls a program of inducible gene expression in T cells	

42	Caputo	Identification of an essential downstream core promoter element that synergizes with the TATA box to direct RNA polymerase II transcription initiation
43	Chen	Negative regulation of toll-like receptor signaling by NF- κ B p50 ubiquitination blockade
44	Östlund Farrants	The WSTF-SNF2H in RNA polymerase I transcription
45	Chang	Identification of potential HIV-1 TAT cofactors derived from chromatin
46	Chen	Identification of two protein factors involved in DSIF-mediated elongation activation
47	Cheng	Properties of RNA polymerase II elongation complexes before and after the P-TEFb-mediated transition into productive elongation
48	Lehming	TFIIB/SUA7 (E202G) is an allele-specific suppressor of TBP1(E186D)
49	Choi	Identification of novel histone methyltransferase in <i>Drosophila</i>
50	Choi	Novel function of the poly(C)-binding protein α CP3 as a transcriptional repressor of the mu opioid receptor gene
51	Chou	Silencing without Sir2
52	Coleman	Single molecule studies of eukaryotic transcription complex formation
53	Cook	Transcriptional phosphatase function in embryonic kidney development
54	Czudnochowski	Comparative analysis of Hexim1 and Hexim2 binding to cyclin T1/T2 and complex formation with importin α
55	Daigo	High-resolution targeted proteomics of endogenous nuclear receptor complex using high-quality immunomagnetic beads
56	Geyer	Structure of the cyclin T-binding domain of Hexim1 and molecular basis for its recognition of P-TEFb
57	De Santis	p21 gene expression—The role of the oncogenic protein PML/RAR α
58	Dermody	Biochemical characterization of the role of the yeast Paf1 complex in RNA polymerase II elongation
59	Di Lello	NMR structural studies of the interaction between the p62/Tfb1 subunit of TFIIF and the α subunit of TFIIE
60	Mantovani	The histone-fold trimer NF-Y is required to position positive histone marks in CCAAT promoters
61	Djupedal	Characterization of RNA polymerase II subunit Rpb7 in fission yeast
62	Holmberg	A role for chromatin remodeling complexes and architectural factors in mRNA splicing
63	Hottiger	PARP1 regulates tumor progression by co-activating HIF-1-dependent gene expression
64	Erkine	Differential requirement of SWI/SNF complex for HSF and Msn2/4 regulated yeast heat shock genes
65	Fan	Mediator in stress response
66	Greenblatt	Histone chaperones can modify the specificity of histone acetyltransferases
67	Finkel	Mutations in the yeast <i>SEN1</i> and <i>RNT1</i> genes cause aberrant termination of transcription

68	Stargell	SAGA is required for Mediator recruitment in a rate-limiting step after pre-initiation complex assembly
69	Fleury-Ricordeau	Eliminating epigenetic barriers induces transient hormone-regulated gene expression in estrogen receptor-negative cancer cells
70	France	Defining molecular mechanisms of gene regulation by normal FLI1 and oncogenic EWS/FLI1
71	Zurita	DNA repair and transcriptional deficiencies caused by mutations in the <i>Drosophila</i> p52 subunit of TFIIH generate developmental defects and chromosome fragility
72	Bertolini	A systematic approach to identify STRE DNA element-binding proteins of the promoter <i>gsn</i> in <i>N. crassa</i>
73	Gamble	MacroH2A, a histone variant present in broad chromatin domains, plays a broad role in the regulation of transcription
74	Georgette	The <i>Drosophila</i> Myb-MuvB/dREAM complex—A positive and negative regulator of gene expression in somatic cells
75	Ghosh	Structure of Fcp1, an essential RNA polymerase II CTD phosphatase
76	Gilchrist	The negative elongation factor, NELF, both stimulates and represses target gene expression
77	Govind	Recruitment and functions of SAGA complex and histone deacetylases in the coding regions of transcribed genes
78	Werner	Transcription initiation—Molecular mechanisms of TFE (TFII ϵ)
79	Dichtl	Regulation of G1 specific gene expression involves interaction of a H3K4 mimicking domain in Nrm1 and the Swd1 subunit of SET1C/COMPASS
80	Guermah	The human PAF complex acts cooperatively with elongation factor SII/TFIIS, through cooperative binding to RNA polymerase II, to facilitate transcription from chromatin templates
81	Zhang	Interplay between the TAF4-homology domain and the nervy-homology domain 2 of ETO regulating repression of E protein-mediated transcription
82	Hanai	Biological functions of the ISWI chromatin remodeling complex RSF
83	Vadnais	Genome-wide location analysis identifies transcriptional targets of p110 CDP/Cux involved in cell cycle progression
84	Robert	Human H2A.Z targets different types of chromosomal regions
85	He	Structure-function analysis of the core components of the mammalian Sin3A corepressor complex
86	Radhakrishnan	Mechanisms of recruitment and regulation of a mammalian Sin3 corepressor complex
87	Hein	The G-CSF-dependent regulation of the potential tumor suppressor gene <i>MXD1</i>
88	Helenius	Mat1 inhibits PPAR γ -mediated adipogenesis
89	Herbig	Interaction of two Gcn4 acidic activation domains with their coactivator targets
90	Hickman	Transcriptional regulation in response to oxygen levels in <i>S. cerevisiae</i>

91	Hirtreiter	Transcription elongation factor Spt4/5 modulates RNA-binding of RNAP subunits F/E (Rpb4/7)
92	Horikoshi	Histone chaperones, nucleosome semi-conservative replication and epigenetic inheritance
93	Hsu	Functional analyses of transcription factors that differentiate core promoter elements
94	Hu	Forkhead transcription factors direct differentiation of muscle cells
95	Wang	Mediator Med23 transduces insulin-signaling to the transcription cascade during adipogenesis
96	Huebner	Dynamic analysis and induction of polycomb bodies at a specific genetic locus
97	Hutchins	Cellular methylation is required for the suppression of genes involved in the differentiation of embryonic stem cells
98	Iida	Essential role of C/EBP- α in G-CSF-induced transcriptional activation and chromatin modification of myeloid-specific genes
99	Irvin	Fidelity of transcriptional elongation—Slippage on homopolymeric runs in vivo
100	Hochheimer	Regulation of histone gene cluster by differential core-promoter recognition factors
101	Iyengar	Genome wide analysis of KAP1-mediated gene repression and chromatin structure
102	Collart	A SAGA-independent function of <i>Spt3</i> mediates transcriptional de-regulation in a mutant of the Ccr4-Not complex in <i>S. cerevisiae</i>
103	Jelicic	Differential effects of Ser to Ala mutations in the Gal4 DNA binding domain
104	Coulombe	Systematic characterization of the protein interaction network for the human transcription machinery—Discovery of novel regulatory factors including the 7SK snRNA capping enzyme
105	Juven-Gershon	Mechanisms of transcription from DPE-dependent core promoters
106	Kantidakis	Dr1 associates with Pol III-transcribed genes and represses tRNA expression in human cells
107	Kasahara	Assembly of regulatory factors on rRNA and ribosomal protein genes in <i>S. cerevisiae</i>
108	Kaufmann	Oca2, a novel protein kinase involved in RNA Pol II transcriptional termination in <i>S. pombe</i>
109	Kazantseva	Neuron-specific isoforms of human BAF57 regulate transcription of RE1/NRSE-containing genes
110	Ranish	Studies of RNA polymerase II preinitiation complexes by mass spectrometry identify new components of the transcription machinery
111	Woo	Synergistic transcriptional regulation of human ABCG5 and ABCG8 genes by nuclear receptors
112	Kim	Genome-wide function of CTCF
113	Kininis	Genome-wide analysis of RNA polymerase II binding and regulation by estrogen signaling
114	Krishnakumar	High promoter-proximal PARP-1:H1 ratios specify active RNA polymerase II-transcribed promoters
115	Kuehner	Sen1-dependent attenuation of yeast RNA polymerase II transcription

116	Kumar	Control of gene expression by the homeodomain protein Msx1
117	Kumaran	A genetic locus targeted to the nuclear periphery in living cells maintains its transcriptional competence
118	Xin	A predictive model of the oxygen and heme regulatory network in yeast
119	Kuuluvainen	Characterization of Cdk8 function in metazoans
120	Lai	Stoichiometry and orientation of the large subunit of SNAPc bound to a U1 snRNA gene promoter
121	Laubert	Sall1 recruits the NuRD complex through a novel motif to repress target gene expression
122	Lebedev	Mutant CSB represses RNA polymerase I transcription
123	Lee	Characterizing the highly divergent class II transcription pre-initiation complex in the early-branched eukaryote <i>T. brucei</i>
124	Lee	CTK complex mediated regulation of histone methylation by COMPASS
125	Lee	The role of the SAGA associated ataxin proteins in regulating histone deubiquitination
126	Lee	BRCA1-associated protein 1 (BAP1) regulates transcriptional activity of RAR through a direct association with ASXL1
127	Lee	Homeodomain interacting protein kinase 2 can modulate the activities of Krüppel-like factors
128	Ladurner	The chromatin-remodeling factor 'FACT' contributes to heterochromatin integrity and is required for accurate chromosome segregation
129	Lempiäinen	Regulation of ribosome biogenesis and cell growth by the transcription factor Sfp1 in budding yeast
130	Li	The higher order chromatin—A higher level regulation of transcription

Session 4 REGULATORY MECHANISMS

THURSDAY 8/30/2007, 7:30 PM

H. Stunnenberg

#	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
131	Goodrich	Transcriptional repression by non-coding RNA regulators of the mammalian heat shock response	16
132	Carthew	Regulating gene expression by transcription and microRNA control	16
133	Akoulitchev	Promoter regulation by non-coding RNA	12
134	Buratowski	The RNA polymerase II CTD mediates multiple mechanisms for suppressing cryptic transcription	12
135	Kraus	Regulation of chromatin composition, structure and function by effectors in the nuclear NAD+ signaling pathway—PARP-1, PARG, SIRT1, and macroH2A	16
136	Moss	Regulation and silencing in the RNA polymerase I/II tussle for control of the ribosomal genes	12
137	Willis	Negative regulation of transcription by Maf1 in yeast and mammalian cells	12
138	Hernandez	Maf1 a new player in the regulation of the RNA polymerase III transcription	12

139 Reinberg A molecular understanding of epigenetics 16

Session 5 ELONGATION-TERMINATION

FRIDAY 8/31/2007, 9:00 AM

J. Tyler

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
140	Gilmour	Inhibition of RNA Pol II elongation by pausing and premature termination	16
141	Handa	NELF interacts with CBC and participates in 3'-end processing of replication-dependent histone mRNAs	12
142	Price	Regulation of P-TEFb by HEXIM1, 7SK and HIV-1 Tat	12
143	Lis	Dynamics of transcription and chromatin at specific genes in vivo	16
144	Arndt	Regulation of histone H3 lysine 36 methylation and histone acetylation by the Bur1-Bur2 and Paf1 complexes	12
145	Li	Combinatorial action of PHD and chromo domains directs the Rpd3S HDAC to regulate global acetylation at transcribed regions	12
146	Carey	A mechanism for pol II elongation through a nucleosome in vitro	16
147	Svejstrup	Mechanisms of transcript elongation—RNAPII collision and destruction	12
148	Ansari	Chemical genomic studies of the TFIIH associated kinase Cdk7/Kin28 reveal new roles in global gene expression	8
149	Block	Single-molecule studies of transcriptional termination in prokaryotes	16

Session 6 POSTER SESSION II

FRIDAY 8/31/2007, 2:00 PM

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
150	Lieberthal	Characterization of the HP1 α promoter region and implications for reduced expression in breast cancer cells	
151	Lim	Exchange of nucleosome-binding proteins during transcriptional activation	
152	Kirfel	Functional analysis of LSD1 in carcinogenesis	
153	Lin	Pin1 enhances transcriptional activity of ATF-2 via relieving intra-molecular inhibitory effect and through interacting with co-activator UTF1	
154	Chen	Statins, novel deacetylase inhibitor, activate p21 expression via release of promoter-associated HDAC1 and HDAC2	
155	Liu	Structural changes in TAF4b-TFIID correlate with promoter selectivity	
156	Liu	Inducible looping between the enhancers in the immunoglobulin κ locus is independent of transcription, new protein synthesis, or E2A, but dependent on activation of NF κ B	
157	Langlois	A high resolution NMR structure of a complex containing the Tfb1 subunit of TFIIH and the activation domain of VP16	
158	Louro	Conserved tissue expression signatures of noncoding intronic RNAs transcribed from human and mouse genomes	

159	Lusic	Whole genome ChIP and 3C analyses reveal a peculiar structural conformation of the HIV-1 proviral genome upon transcriptional activation
160	Malik	Regulation of HNF-4-dependent transcription by Mediator and ancillary factors
161	Marr	The metazoan specific mediator subunit MED26 interacts with HP1 and is associated with centromeric heterochromatin
162	Martinez	Biophysical properties and oligomeric states of CTCF
163	Oficjalska	Regulation of an inducible promoter by a HP1A-HP1B switch
164	Minard	DNA replication alters chromatin structure and function of the developmentally regulated α -fetoprotein gene
165	Miranda	Structuring genome insulation
166	Moreira	Identification of an intronic transcription profile as a candidate marker for prostate cancer prognosis using intron-exon oligonucleotide microarrays
167	Morohashi	α 2/Mcm1-dependent positioned nucleosomes prevent activator from binding in vivo
168	Mousson	Regulation of TBP complex dynamics revealed by quantitative mass spectrometry
169	Mulligan	Metabolic enzyme homolog CDYL is a novel co-repressor of REST target genes and candidate mediator of REST tumor suppressor activity
170	Nakadai	Transcriptional activation of c-fos gene by the NF complex
171	Ohkuma	Functional studies on TFIIE and its mediated changes of RNA polymerase II in association with TFIIH and Mediator
172	Zannis	Inhibition of hormone nuclear receptor activity and apolipoprotein gene expression by the Tpl2/Cot oncogenic protein in hepatic cells
173	Nogaj	The effect of Bmi1 on the p16 gene expression
174	Noriega	The transcription factor Rtg1 is regulated by the Hog1 SAPK in response to osmostress
175	Oestreich	Transcriptional regulation of programmed cell death (PD)-1
176	O'Gorman	Analysis of the regulatory interactions of cyclin H with non-coding RNAs in RNA polymerase II transcription
177	Okuwaki	Functional characterization of nucleosome assembly proteins in human cells
178	Org	Molecular interactions of the autoimmune regulator with histone H3
179	Yokoyama	AP-1 repressor Jdp2 suppresses adipocyte differentiation by regulating histone acetylation
180	Papadopoulou	Plo1 regulation of M-G1 phase specific gene expression in fission yeast through phosphorylation of Mbx1
181	Papantonis	Architectural protein factors in the silkworm model system for studying differential gene expression
182	Pascual-Garcia	The mRNA export factor Sus1 has an important role in transcription elongation
183	Pennella	In vivo dynamics of activator-Mediator interactions
184	Pistoni	Characterization of Rasl11A, a nucleolar, chromatin-associated Ras-family protein

185	Pless	Methylation of C/EBP β by G9a lysine-methyltransferase leads to transcriptional repression
186	Polo	The BCL6 lymphomagenic transcriptional repressor mediates gene silencing and biological effects through a complex series of chromatin modifications, which can be therapeutically targeted to treat human B-cell lymphomas
187	Pratt-Hyatt	Novel silencing mechanism adjacent to clustered tRNA genes
188	Pufall	Allosteric regulation of a signal integrator—DNA and the glucocorticoid receptor
189	Qureshi	Protein-DNA interactions on the sulfobolus spindle-shaped virus-1 (SSV1) T5 and T6 promoters and their effect on transcription initiation
190	Rabinovich	Genome wide analysis of the mechanisms responsible for the genomic recruitment of E2F1
191	Rogat sky	Transcriptional interference between the glucocorticoid receptor and interferon regulatory factor (IRF)-3—The role of the p160 coregulator GRIP1
192	Reina	Maf1 a new player in the regulation of the RNA polymerase III transcription
193	Kerppola	Visualization of chromatin binding and dynamics of polycomb repressive complexes during embryonic stem cell differentiation
194	Revyakin	Single-molecule assembly of transcription initiation complexes
195	Ristola	Regulation of two kidney disease-associated genes, <i>NPHS1</i> and <i>KIRREL2</i> —Putative common regulatory elements
196	Rose	Conformational changes implied by the structure of the E47/NeuroD1 bHLH heterodimer determine DNA binding specificity
197	Rosenfeld	Determination of histone modifications in active and inactive DNA
198	Hanes	Regulation of yeast RNA Pol II function by the Ess1 prolyl isomerase
199	Runner	The role of the yeast RNA polymerase II subunit, Rpb4, in mRNA 3'-end processing and chromatin modification
200	Ryme	SWI/SNF ATPases in RNA processes
201	SAMAD	Physical and functional interaction between B23/nucleophosmin, a nucleolar histone chaperone, and adenovirus core proteins
202	Sarma	Induction of <i>GAL</i> genes by GAL4 occurs via a reverse recruitment mechanism
203	Sato	The role of transcription factors in the regulation of human HL60 cell differentiation
204	Sautel	Set8-mediated methylations of histone H4 lysine 20 mark silent heterochromatic domains in Apicomplexan genomes
205	Hakimi	Exploring the 'chromatin code' in the life cycle of the protozoan parasite <i>T. gondii</i>
206	Schones	Nucleosome positioning in the fly and human genomes
207	Schulte	Structure of cyclin T1 reveals the basis for binding competition of Hexim1 and HIV-1 Tat
208	Seila	Sense and anti-sense orientated short RNAs at transcription initiation sites in murine embryonic stem cells

209	Henry	The RB tumor suppressor directs multiple enzymatic activities during RNA Pol III repression
210	Lesage	Transcriptional activation of Ty1 retrotransposon by severe adenine starvation and its impact on adjacent genes
211	Milcarek	Phosphorylation of the carboxyl terminal domain of RNA polymerase II and co-transcriptional factor ELL2 influence production of secretory-specific Ig heavy chain mRNA in plasma cells
212	Hsiao	Haloperidol abrogates matrix metalloproteinase-9 expression by inhibition of NF- κ B activation in human monocytic THP-1 cells
213	Sheu	Signal pathways in human platelets activated by amyloid β —Pivotal roles of p38 MAPK and NF κ B/I κ B α complex
214	Shidlovskii	Novel mechanism of coupling of chromatin remodeling transcription initiation and mRNP formation
215	Shimada	Mechanisms of histone H3 phosphorylation on the <i>c-fos</i> promoter
216	Shimizu	Regulation of glucocorticoid-responsive gene expression by HEXIM1
217	Shukla	Regulation of transcription elongation by H2B-K123 ubiquitination in vivo
218	Barbaric	Chromatin remodeling activities at the yeast <i>PHO84</i> promoter
219	Simon	The site-specific installation of methyl lysine analogues into recombinant histones
220	Schnitzler	Human SWI/SNF directs repositioning of nucleosomes away from assembly-preferred sequences
221	Sims	Recognition of trimethylated histone H3 lysine 4 facilitates the recruitment of post-initiation factors and pre-mRNA maturation
222	Rojas	Recognition of H3K36 methylation by the chromatin assembly/remodeling factors CHD1 and CHD2
223	Smallwood	A mechanism for HP1-mediated silencing of transcription
224	Smyth	A novel 20 bp enhancer region is necessary for cone photoreceptor gene expression in zebrafish
225	So	Use of conservational analysis to predict response elements
226	Soufi	Phosphorylation of the proline-rich homeodomain protein (PRH/Hex) by CK2 inhibits binding to DNA
227	Stoytcheva	Regulation of human SelH gene expression in different cell lines under stress conditions
228	Svetelis	Role of H2A.Z in gene expression during the cell cycle and carcinogenesis
229	Taatjes	Modulation of Mediator function by subunit exchange
230	Lim	Genome-wide analysis of Tcf3 promoter occupancy and transcriptional regulation of target genes in murine embryonic stem cells
231	Taneda	Disruption of zebrafish hematopoiesis by knockdown of transcription elongation factor Spt5
232	Tornaletti	G4 DNA structures generated in the non-transcribed strand during transcription pose blocks to T7 RNA polymerase and mammalian RNA polymerase II

233	Uht	Negative regulation of the corticotropin-releasing hormone (CRH) gene by the glucocorticoid receptor (GR)
234	Luse	The effect of histone tail removal on transcript elongation by RNA polymerase II
235	Umemura	hCDK8, a kinase subunit of human Mediator complex, plays a positive role in transcription
236	Valin	Post-translational modification by SUMO provides a recognition platform for interaction with transcriptional corepressors
237	van der Knaap	Gene regulation by the ubiquitin specific protease 7 (USP7)/GMP synthetase (GMPS) complex
238	van Werven	Genome wide location analysis of TBP-containing complexes in <i>S. cerevisiae</i>
239	Vannini	Structural biology of human histone deacetylase 8
240	Venkata Puchakayala	Regulation of HD-ZIP transcription factor GLABRA2 of <i>Arabidopsis</i> via START lipid/sterol binding domain
241	Venters	Genome-wide transcriptional dependence on conserved regions of Mot1
242	Vermeulen	A proteomic screen to decipher the histone code interactome by silac-based quantitative proteomics
243	Vieu	The survival of motor neuron (SMN) complex is required for U6 transcription
244	Tagoh	Epigenetic regulation of the mouse <i>Cd19</i> gene in B cell development
245	Wang	Dynamic histone acetylations and interplays with methylations in the human genome
246	Weinzierl	Dissection of RNA polymerase function using high-throughput robotics
247	Whetstone	Biological roles for histone tri-demethylases
248	Wilkinson	The role of the stress-activated MAPK Sty1/Spc1 and bZip transcription factor Pcr1 in Atf1-dependent stress-induced transcription in fission yeast
249	Williams	The repression of transcription by PRH oligomers
250	Wong	Yeast cap binding complex (CBC) impedes recruitment of cleavage factor IA to weak termination sites
251	Wong	The SRCAP chromatin remodeling complex localizes to the SP-1 promoter and mediates transcription
252	Marley	AP-1 and LEF-1 as regulators of human N-cadherin gene expression
253	Wright	The aryl-hydrocarbon receptor nuclear translocator modulates CD30-mediated NF- κ B transactivation
254	Wright	In vivo role of TAF4 in TFIID assembly and co-activator function
255	Wu	Functional significance of histone acetylation in <i>Arabidopsis</i>
256	Chiang	Chromatin adaptor Brd4 enhances HPV E2-mediated transcriptional repression in an ATP-dependent manner without altering nucleosome positioning
257	Lee	Transcriptional regulation of the <i>HAP1</i> gene is mediated by a complex mechanism involving histone deacetylases
258	Yakovchuk	Mechanism of transcription inhibition by B2 RNA

259	Yamaguchi	Elongation control through dynamic phosphorylation of the C-terminal repetitive motifs of Spt5
260	Yang	Studies of the mechanism(s) by which <i>S. cerevisiae</i> RNA polymerase II comes into contact with far downstream transcription start sites
261	Yang	SIRT1/Sir2 regulates lipid and cholesterol homeostasis through SREBP
262	Yang	Brd4 recruits P-TEFb to chromosomes at late mitosis to preserve active transcription status across cell division
263	Dailey	Functional identification of mammalian transcriptional activating elements
264	Yoon	Epigenetic regulation during B cell differentiation controls CIITA promoter accessibility
265	Young	Kinetics of regulatory complex formation on the C-reactive protein promoter
266	Zaragoza	Regulatory crosstalk between E2F and C/EBP α
267	Zhang	Mouse Mixl is a transcriptional activator of <i>goosecoid</i> in differentiating embryonic stem cells
268	Zhou	A novel component of the 7SK-HEXIM1-P-TEFb snRNP links 7SK stability and P-TEFb-dependent transcriptional elongation to growth control and tumorigenesis
269	Zhu	Rap1 interacts with the <i>S. cerevisiae</i> Mediator complex
270	Zill	Discovery of a conserved repressor of α -specific genes in <i>Saccharomyces</i> yeasts

Session 7 REGULATORY COMPLEXES

FRIDAY 8/31/2007, 7:30 PM

M. Carey			
<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
271	Roeder	Role of human Mediator and PAF complexes in transcriptional activation by p53	16
272	Ferrari	Epigenetic reprogramming by adenovirus E1A protein	8
273	Werner	Mediator stabilizes TFIIH and promotes multiple steps in preinitiation complex assembly	12
274	Conaway	The human INO80 chromatin remodeling complex functions as an essential coactivator for the DNA binding transcription factor YY1	16
275	Hagman	Epigenetic remodeling in response to early B cell-specific factors is dependent on SWI/SNF and restrained by Mi-2/NuRD	16
276	Wolberger	Insights into transcriptional silencing and telomere length regulation from the structure of the Rap1 C-terminus	16
277	Tora	TFTC/STAGA HAT complex links stress response, histone H2B deubiquitination dependent chromatin remodeling and transcription activation	16
278	Rodriguez-Navarro	The mRNA export factor Sus1 has an important role in transcription elongation	8
279	Martinez	STAGA recruits Mediator to the Myc oncoprotein to stimulate transcription and cancer cell proliferation	8
280	Tjian	Switching of the core transcription machinery during myogenesis	16

Session 8 CHROMATIN-HISTONE MODIFICATION

SATURDAY 9/1/2007, 9:00 AM

R. Kingston

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
281	Peterson	Role of SWI/SNF in transcriptional memory	16
282	Tyler	Chromatin disassembly mechanisms	16
283	Floer	Chaperones of the HSP90 system are required for rapid nucleosome removal at the <i>GAL1/10</i> promoter in <i>S. cerevisiae</i>	8
284	Struhl	How proteins selectively bind their targets in vivo	16
285	Shilatifard	Translating histone crosstalk between H2B monoubiquitination and H3 methylation by COMPASS and Dot1	16
286	Archer	Plays well with others—The glucocorticoid receptor on chromatin	16
287	Lucchesi	The MLE subunit of the <i>Drosophila</i> MSL complex uses its ATPase activity for dosage compensation and its helicase activity for targeting	8
288	Eid	Deregulation of polycomb function by the SYT-SSX2 oncogene	8
289	Zhang	Histone demethylation by the JmjC domain-containing proteins	16
290	Shi	Regulation of histone methylation by demethylases	16

Session 9 SIGNALING

SATURDAY 9/1/2007, 2:00 PM

M. Levine

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
291	Yamamoto	Selective GRE occupancy and GRE-mediated allostery modulate transcriptional regulation by the glucocorticoid receptor	16
292	Espinosa	Mechanisms of transcriptional regulation in the p53 network	12
293	Naar	Fungal analogs of metazoan nuclear receptors	12
294	Mellor	A signal transduction pathway controlling dynamic H3K4me3 on active genes	16
295	Shannon	The chromatin environment of inducible genes in T cells	12
296	Blobel	GATA factor switches and transitions in higher order chromatin organization at a developmentally regulated gene locus	12
297	Treisman	The RPEL domain of the SRF cofactor MAL—An actin-regulated nuclear localization sequence	16

Session 10 DEVELOPMENTAL MECHANISMS

SUNDAY 9/2/2007, 9:00 AM

L. Tora

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
298	Zaret	FoxA factor control of chromatin in multipotent progenitor cells	16

299	Mango	PHA-4/FoxA modulates chromatin morphology as cells transit from pluripotency to differentiation	16
300	Hirose	Histone replacements play critical roles in the heterochromatin spreading and its counteraction	12
301	Chen	Development program sequentially turns on terminal differentiation gene expression in a stem cell lineage	12
302	Boss	The insulator factor CTCF controls major histocompatibility complex class II gene expression through the formation of long distance chromatin interactions	16
303	Gallant	Max-independent functions of Myc in <i>Drosophila</i>	8
304	Levine	Whole-genome analysis of dorsal-ventral patterning of the <i>Drosophila</i> embryo	16
305	Lessnick	Microsatellites as transcriptional targets in human cancer development	8
306	Small	The Bicoid-dependent transcription network in <i>Drosophila</i>	16