

Mechanisms of Eukaryotic Transcription

Session 1 TRANSCRIPTION COMPLEXES

WEDNESDAY 8/31/2005, 7:30 PM

J. Conaway

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
1	Ptashne	Gene regulation by recruitment	8
2	Tjian	Dynamic interaction and differential requirement for "core" transcriptional co-activator complexes	16
3	Hahn	Two unrelated acidic activators converge on the same functional targets within the preinitiation complex	12
4	Hinnebusch	Simultaneous interdependent recruitment of SAGA, Swi/Snf and Mediator by Gcn4p stimulates multiple steps of transcription in vivo	12
5	Naar	Structural and functional role of human and yeast Mediator co-activator subunits in specific gene regulatory pathways	8
6	Zhou	P-TEFb alternatively interacts with positive and negative regulators to maintain functional equilibrium for control of cell growth and differentiation	8
	Roeder	Function of diverse coactivators in transcriptional activation.	16
	Reinberg	No title	16

Session 2 SIGNALING

THURSDAY 9/1/2005, 9:00 AM

A. Berk

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
7	Egly	Nuclear receptors, RNA polymerase and DNA damage	12
8	Mangelsdorf	Nuclear receptors and transcriptional control of lipid metabolism	12
9	Henriksen	Latent STAT1 dimer structure—Implications for the activation-inactivation and transcriptional function of STAT1	8
10	Jones	Mechanistic studies of Wnt and Notch signaling	16
11	Johnson	Activator and repressor functions of hypoxia-inducible negative cofactor 2	8
12	Graves	Variable control of Ets-1 DNA binding by multiple phosphates in a flexible, unstructured region	12
13	Guettler	Interactions with actin in the nucleus regulates activity of the SRF cofactor MAL	8
14	Hill	Transcriptional regulation by activated Smad complexes	12
15	Yamamoto	Physiological expression patterns reflect integration of "sectors" of multiple regulatory networks	12

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
16	Adachi	On the origin of TATA box-binding protein	
17	Price	Functional coupling of cleavage and polyadenylation with transcription of mRNA	
18	Adelman	A screen for factors that impact heat shock transcription provides novel insights into Pol II elongation	
19	Agelopoulos	Reprogramming of cell lineage specific gene expression patterns by the histone variant macroH2A	
20	Aida	Human junB gene is regulated by DSIF and NELF at the step of transcription	
21	Ainbinder	Defining the mechanisms of myelin gene expression induced by IL6/IL6-receptor	
22	Collart	Glucose-dependent control of NC2 function by the C-terminal domain of NC2 α	
23	Andrau	The mediator transcription complex colocalizes with its regulatory Cdk module on DNA and is found at active promoters, inactive promoters and on coding regions	
24	Aoyagi	Coupling histone deacetylation with progesterone receptor mediated transcription	
25	Larsson	c-Myc associates with ribosomal DNA in the nucleolus and activates RNA polymerase I transcription	
26	Armache	Structures of complete RNA polymerase II and its subcomplex Rpb4/7, and modeling of RNA polymerases I and III	
27	Balamotis	Competition for promoter occupancy between similar factors influences mediator recruitment and gene activation	
28	Bao	Nucleosome core particles containing poly(dA·dT) element possess a locally distorted DNA structure	
29	Barboric	Regulating the regulator—Negative regulation of the HIV-1 cellular cofactor P-TEFb by HEXIM1/7SK snRNA	
30	Bartfai	Does TBP2 have two distinct functions?	
31	Muchardt	The Swi/Snf complex regulates alternative splicing	
32	Berghoefer-	Purification and characterization of <i>Drosophila</i> Mi-2/NuRD	
33	Bernard	Med24 (TRAP100) interacts with c-Myc and is required for Myc transactivation	
34	Betz	The yeast Paf1 complex is required for association of cleavage and poly(A) factors with pol II	
35	Beyrouthy	YY1, transcription, cell proliferation, and cell death	
36	Binda	The RBP1 family exhibit SUMOylation-dependent transcriptional repression and induces cell growth inhibition reminiscent of senescence	
37	Bitoun	Investigating the function of the AF4 transcription factor in the cerebellum	
38	Black	The mediator coordinates the transition between chromatin acetylation and preinitiation complex assembly	
39	Blaszczak	Regulation of the Ets-1 transcription factor by SUMO modification	

40	Blazek	Oligomerization of HEXIM1 7SK snRNA and coiled-coil region directs the inhibition of P-TEFb
41	Rizzino	Activators Sox2 and Oct-3/4 form the basis of a gene regulatory network that controls multiple genes required for pluripotency during embryogenesis
42	Bolton	Androgen-responsive genes in prostate epithelium
43	Bondarenko	Nucleosome-specific and sequence-specific determinants of nucleosomal barrier to RNA polymerase II
44	Brettingham-Moore	GM-CSF gene activation—Providing an insight into the role of Brg1 in gene
45	Burton	NTP-driven translocation and regulation of downstream template opening by multi-subunit RNA polymerases
46	Kurtz	Mechanism of cell growth regulation by C/EBP α
47	Caretti	The RNA helicase proteins p68/p72 and the RNA coactivator SRA are regulators of MyoD and muscle differentiation
48	Catena	Proteolytic cleavage of ALF into α and β subunits that form homologous and heterologous complexes with somatic TFIIA and TRF2 in male germ cells
49	Cayrou	A human protein complex homologous to the Drosophila MSL complex is responsible for the majority of histone H4 acetylation at lysine 16
50	Charles	The mechanistic role of the non-catalytic hSwi/Snf subunits in ATP-dependent chromatin remodeling
51	Chen	Tissue specific TAFs regulate the gene expression program for spermatid differentiation by counteracting polycomb
52	Chodaparambil	Nucleosomal surface as a docking platform for viral proteins
53	Cojocaru	In vivo localization of the RNA polymerase II general transcription machinery along human genes
54	Colinas	The role of inter and intragenic sequences in regulation of gene transcription
55	Connert	Tap-purification of Nab2-interacting proteins leads to the discovery of TonEBP/NFAT5 as a new Nab regulated transcription factor
56	Zhao	Genome-wide comparison of active and repressive epigenetic marks in human
57	Weisz	Mutant p53 gain of function—Inhibition of apoptosis through enhancement of NF- κ B activity in cancer cells
58	Roberts	A core promoter element downstream of the TATA box that is recognized by TFIIIB
59	Dhasarathy	Snail and slug mediate epithelial to mesenchymal transitions by repression of estrogen receptor α
60	Dikstein	Understanding TFIIID recognition of diverse core promoters
61	Donohoe	The search for CTCF partners in the regulation of X-chromosome inactivation in
62	Dou	Physical association and coordinate function of the H3 K4 methyltransferase MLL1 and the H4 K16 acetyltransferase MOF

63	Vachtenheim	p21 (WAF1) cdk inhibitor has transcriptional functions in melanoma cells independent of cell cycle regulation
64	Timmers	Histone H3K4 trimethylation is linked to estrogen receptor activity by the menin tumorsuppressor
65	Nourbakhsh	The NF- κ B repressing factor (NRF) inhibits elongation of HIV-1 transcription by DRB sensitivity-inducing factor (DSIF)
66	Bensaude	Transcription-dependent association of multiple P-TEFb units with a HEXIM1
67	Durant	Relationship between yeast TAF1 and histone acetyltransferases
68	El-Mounayri	Regulation of smooth muscle specific genes by clustered homeodomain proteins, Hoxa10-1 and Hoxb8
69	Fagerström-Billai	Genome-wide analysis of the Tup/Ssn6 transcriptional repressors in fission yeast
70	Fan	Comparing different remodeling activities in transcription regulation
71	Fan	Activator-specific recruitment of Mediator in vivo
72	Hirose	DNA supercoiling factor plays a role in the hyperactivation of the male X chromosome in <i>Drosophila</i> dosage compensation
73	Furumoto	Functional studies of human mediator subunit MED18/p28b
74	Fusco	The mechanism of restrictive RelB heterodimer formation
75	Garcia-Wilson	p21 ^{WAF1/CIP1} regulates the p300 SUMOylation motif CRD1 through a C-terminal domain independently of cyclin/CDK binding
76	Geles	Role of cell-type specific TFIID and c-Jun in ovarian gene expression
77	Scovell	The promiscuous binding of estrogen receptors to a spectrum of estrogen response elements—The influence of spacer size between the inverted repeats
78	Gill	Regulation of the dual function transcription factor Sp3 by SUMO modification
79	Govind	Involvement of coactivators in stimulating transcriptional elongation during activation by Gcn4p
80	Yang	Interplay of SUMOylation with phosphorylation in regulating MEF2 transcriptional
81	Henry	Antagonism between the p53 tumor suppressor and the Cockayne syndrome group B protein for RNA polymerase II and III transcription
82	Gridasova	The p53 tumor suppressor protein represses human snRNA gene transcription by RNA polymerases II and III independently of sequence-specific DNA binding
83	Guccione	Epigenetic determinants of Myc binding to genomic DNA
84	Guffanti	A silent RNA polymerase III transcription unit that is activated upon chromatin
85	Ferrari	Sequence requirements for <i>SNR52</i> gene transcription and post-transcriptional processing
86	Soutourina	Med31 (SOH1) mediator subunit and TFIIS elongation factor play redundant roles in transcription initiation at <i>GAL1</i> promoter

87	Guo	Proteins that interact with the RNA polymerase II C-terminal domain
88	Freiman	Tissue-selective variants of global coactivator complexes in mammalian
89	Han	The crystal structure of a ternary p300/MEF2/DNA complex reveals the mechanism of coactivator recruitment by myocyte enhancer factor 2
90	Hottiger	Acetylation of PARP-1 by p300/CBP regulates coactivation of NF- κ B-dependent transcription
91	Ohkuma	TFIIE induces conformational and functional changes in RNA polymerase II during transcription initiation
92	He	Differential regulations of the motor protein remodeling activity by the subunits in the huACF and Swi/Snf complexes
93	Helenius	The Mat1 subunit of TFIIF/CAK is specifically required for transcription of fatty acid metabolism genes
94	Hieb	The rate-limiting step of human RNA polymerase II transcription in vitro occurs during the synthesis of a 7-9nt RNA
95	Hirsch	Global analysis of gene expression, chromatin modification, and transcription factor binding during myeloid cell differentiation
96	Hisatake	Requirement of coactivators for c-fos transcription in vitro
97	Holmberg	<i>MRN1</i> , encoding a novel mRNA binding protein, is a multicopy suppressor of RSC - Nhp6 synthetic lethality
98	Hooper	H2A.Z is a transcriptional target of c-Myb in T cells
99	Horikoshi	Global analysis of surface by point mutation (GLASP) of core histones
100	Hsu	Identification of DPE-specific enhancer elements
101	Huang	Cluster specific regulation pattern of upstream regulatory elements in human α and β -globin gene clusters
102	Reece	Regulation of transcription factor function through the direct action of small molecules
103	Igarashi	Heme-mediated gene regulation in mammalian cells
104	Mantovani	Analysis of direct p53/p63 repression of G2/M promoters
105	Irvin	Global contributions of yeast TAF1 functional domains on gene expression
106	Ishiguro	Two complexes containing DNA-PK or RHA, are required for Zic2 dependent transcriptional regulation
107	Isogai	Mapping distinct TBP and TRF core promoter recognition complexes in the <i>Drosophila</i> genome
108	Itoh	Chromatin remodeling factor BRG1 is essential for NRF2-mediated heme oxygenase 1 induction by oxidative stress
109	Barlev	Regulation of p53 by lysine Set7/9

110	Izumo	Cell culture-based real-time monitoring assay and quantitative analysis of circadian gene expression
111	Strubin	Replication-independent histone dynamics in yeast
112	Jawdekar	The HEXIM1 repressor of P-TEFb stimulates transcription of its 7SK snRNA corepressor partner by RNA polymerase III
113	Jeronimo	An interaction network linking the RNA polymerase II general transcription machinery to factors involved in RNA processing, chromatin modification and DNA
114	Jiang	Runx1 actively represses CD4 expression by binding P-TEFb and inhibiting transcriptional elongation by RNA polymerase II
115	Engel	Association of INHAT components SET and pp32 with viral chromatin
116	Kanazawa	NLK is a negative regulator of RNAPII transcription
117	Kaneshiro	Functional diversity of p53-binding sites in the human genome
118	Ansari	Chemical genomics provides unexpected insight into the role of TFIIH kinase in gene expression
119	Kanin	Chemical genomics offers unexpected insight into mechanisms of global transcription control
120	Brindle	Multiple coactivator-dependent mechanisms are required for hypoxia-inducible-factor-1 α -responsive gene expression in vivo
121	Kasper	Conditional knockout in mice of the global transcriptional coactivators CBP and
122	Kenneth	Mechanisms of RNA polymerase III transcriptional activation by c-Myc
123	Kim	Transcription regulation by histone chaperones
124	Lee	Systematic analysis of CTD and its phosphorylation in genome-wide transcription by RNA polymerase II
125	Kim	Activator Gcn4 and Cyc8/Tup1 are interdependent for promoter occupancy in vivo

Session 4 STRUCTURE AND MECHANISM

THURSDAY 9/1/2005, 7:30 PM

R. Tjian

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
126	Darst	Structural basis for transcription-repair coupling in bacteria	12
127	Cramer	From the complete RNA polymerase II structure towards transcription regulation	12
128	Bushnell	RNA polymerase II structure and mechanism	12
129	Luse	The role of the transcription bubble and TFIIIB in promoter clearance by RNA	8
130	Svejstrup	Contending with obstacles for RNA polymerase II transcription—Nucleosomes and DNA damage	12
131	Luger	Structural and functional characterization of the histone variant macroH2A	12

132	Ladurner	Splicing regulates NAD metabolite binding to histone macroH2A	8
133	Hartlepp	The histone fold subunits of the <i>Drosophila</i> chromatin accessibility complex	8
134	Wolberger	Mechanism and regulation of NAD ⁺ -dependent deacetylation by Sir2 enzymes	12

Session 5 ELONGATION AND TERMINATION

FRIDAY 9/2/2005, 9:00 AM

P. Farnham

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
135	Shilatifard	Yeast COMPASS points the way to human MLL and its role in pathogenesis of	12
136	Kong	ELL-associated factors 1 and 2 are positive regulators of RNA polymerase II elongation factor ELL	8
137	Handa	Elongation control by DSIF, NELF, and P-TEFb	12
138	Arndt	The yeast Paf1 complex performs multiple functions during transcription elongation	8
139	Mellor	Transcription dynamics and pre-mRNA processing are pre-determined by chromatin structure and composition on the repressed promoter	16
140	Lis	Dissection of mechanisms of eukaryotic transcription in vivo	12
141	Gerton	Cohesin association with chromosomes is dynamic in response to transcription	8
142	Buratowski	Connecting transcription to mRNA processing and chromatin	8
143	Gilmour	The mechanism of RNA polymerase II termination	8
144	Hampsey	Promoter-terminator DNA looping mediated by the mRNA 3'-end processing machinery in yeast	8

Session 6 POSTER SESSION II

FRIDAY 9/2/2005, 2:00 PM

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
145	Kinyamu	The proteasome stimulates glucocorticoid receptor-dependent transcription at a step down stream transcription initiation	
146	Kireeva	Mechanism of the nucleosome-induced transcription arrest of RNA polymerase II	
147	Kashlev	Mechanism of transcription fidelity—Mutations in RNA polymerase II enhancing transcription slippage and misincorporation	
148	Mueller	Targeting polycomb group protein complexes to cis-regulatory sequences	
149	Klymenko	Purification and characterization of Pho protein complexes	
150	Kollakowski	Effect of pre- and post-initiation events on transcriptional elongation and RNA	
151	Korenjak	A conserved retinoblastoma repressor complex that regulates the expression of differentiation specific genes	

152	Kotekar	Role of chromatin structure in transcription regulation of the MHC class I gene
153	Krishnamoorthy	Histone H4 Ser1 phosphorylation during sporulation and spermatogenesis
154	Krogan	Protein complexes and functional pathways involved in transcriptional regulation and chromatin function
155	Kundu	Implications of small molecule activators of histone acetyltransferases p300/CBP in probing HAT functions in vivo
156	Kuo	Acetylation of Lys320 antagonizes an auto-inhibitory interaction with tetramerization domain of tumor suppressor protein p53
157	Kwak	Protein methylation involved in Tat function by protein arginine methyltransferases
158	Stumph	RNA polymerase II transcription of <i>Drosophila</i> small nuclear RNA genes—Role of the proximal sequence element B of the U1 gene promoter
159	Werner	Discovery of a common mechanism for co-activator and co-repressor engagement by a transcription factor
160	Lee	The 19S proteasomal regulatory particle enhances SAGA promoter targeting by facilitating SAGA interactions with transcription activators
161	Lee	PIAS1 confers DNA binding specificity on the Msx1 homeoprotein
162	Tsai	Transcriptional regulation of zebrafish <i>myf-5</i> expression during early
163	Lee	ZnF-associated corepressor (ZaCoR) mediates ligand-dependent transcription of nuclear hormone receptor RAR
164	Lefevre	Locus-wide alterations in transcription factor binding, histone levels and chromatin architecture at the inducible chicken lysozyme gene locus
165	Kuras	Transcription activation by the yeast activator Met4 requires Mediator and SAGA
166	Lewis	Differing factor requirements of DCE- and DPE-classes of downstream core promoter elements
167	Liu	Recruitment of TAF1 to p21 promoter through interaction with p53 in an acetylation-regulated manner
168	Li	Transcriptional regulation of macrophage migration inhibitory factor (MIF) by pituitary transcription factor-1 (Pit-1) in primary human breast cancer
169	Li	Analysis of the large inactive P-TEFb complex indicates that it contains one 7SK molecule, a dimer of HEXIM1 or HEXIM2, and two P-TEFb molecules containing CDK9 phosphorylated at threonine 186
170	Wang	Function of TAF1 histone acetyltransferase activity in the activation of cyclin D1 transcription
171	Liang	Study of core promoter elements on CHIP-chip and promoter of oligo-capping data
172	Jin	Wwp2 ubiquitinates transcription factor Oct-4 through an unconventional linkage and in a dose-dependent manner
173	Liao	Identification of Brf1 peptides that interact with the tetratricopeptide repeat-containing TFIIIC subunit, Tfc4

- 174 Lüscher Substrates of cyclin-activated kinases
- 175 Lim The MTE interacts with TFIID and serves as a binding site for the recruitment of TFIID to MTE-dependent core promoters
- 176 Lin The mechanism of regulation of RNA polymerase I transcription by protein kinase
- 177 Lin The roles of mammalian GCN5 histone acetyltransferase in murine embryogenesis
- 178 Linder Isolation of Mediator sub-complexes from *S. cerevisiae* and *S. pombe*
- 179 Levens Reverse engineering the human *c-myc* promoter—The role of torsional stress in realtime regulation
- 180 Liu A functional study of *Drosophila* HP1 in chromatin dynamics and transcription during development
- 181 Liu Mutational analysis of the essential functional sequence in the yeast RNA polymerase II C-terminal domain
- 182 Martinez The STAGA complex activates TERT transcription and cancer cell proliferation via its SPT-TAF module
- 183 Lubelsky Autorepression of Rfx1 gene expression—Conservation of a regulatory pathway from yeast to humans
- 184 Luecke Chemical genetic dissection of GCN5/PCAF regulatory pathways
- 185 Lum Tuning the potency of artificial activators
- 186 Kempkes A knockout of CBF1 in a somatic human B-cell line
- 187 Strathern Mutations that reduce the fidelity of transcription
- 188 Malenfant Functional interaction between FTF/LRH-1 and C/EBP β defined by genome wide location analysis in mouse liver and human hepatoma cells
- 189 Mangone Mutational analysis of the HCF-1 basic region and its role in cell proliferation
- 190 Mani CtBP corepressor requires NAD binding but not the catalytic center for in vivo
- 191 Martianov Regulation of the human DHFR promoter activity by interfering non-coding RNA
- 192 Marusina STAT proteins in the transcription regulation of human CD94 gene
- 193 Mathes Mechanism of free I κ B α degradation
- 194 Matouk Histone deacetylases and the regulation of endothelial gene expression
- 195 Mayer Functional analysis of TIF-IA, the factor mediating growth-dependent control of ribosomal RNA synthesis
- 196 McFerrin The role of positive-acting transcription factor B (P-TEFB) in differential gene expression in endothelial cells during angiogenesis
- 197 Akhtar Purification of the *Drosophila* dosage compensation complex reveals functional link with nucleoporins

198	Davidson	TAF4 regulates growth factor expression restricting cell proliferation in fibroblasts and mouse epidermis and is an essential cofactor in retinoid and CREB signaling
199	Miller	Mapping the path of promoter DNA within the yeast RNA polymerase II preinitiation complex
200	Aso	Disruption of mouse elongin A leads to embryonic lethality and senescence-like phenotypes in primary cells
201	Moisan	BRCA1 inhibits UV-induced P-TEFb kinase activity and rescues transcription defect caused by UV irradiation
202	Moorefield	In vitro analysis of gene activation in chromatin
203	Shimizu	Chromatin alteration by alternative DNA structures disrupts repression of a-specific gene <i>BAR1</i> in the yeast genome
204	Morris	Histone H3 K36 methylation is associated with transcription elongation in <i>S. pombe</i>
205	Mulder	The Ccr4-Not complex is required for transcription initiation of the <i>RNR</i> genes following replication stress and DNA damage
206	Padmanabhan	Structural basis for acetylated histone H4 recognition by the N-terminal bromodomain of human Brd2
207	Nelissen	The <i>elongata</i> mutants identify a functional elongator complex in plants with a role in cell proliferation during organ growth
208	Nelson	Molecular determinants of a signaling pathway—Quantitative analyses of the Ets-1 and Ets-2 PNT domain interactions with ERK2 and CBP
209	Wohrl	Expression and characterization of the RNA recognition motif of NELF E, a negative transcription elongation factor involved in the regulation of HIV-1 transcription
210	Ni	The dynamics of <i>D. melanogaster</i> ribosomal proteins and histone H1 on chromatin
211	Nourani	Spt2/Sin—An HMG-like factor associated to transcription elongation
212	Lefebvre	Maf1-mediated regulation of RNA polymerase III transcription
213	Imbalzano	Specification of skeletal muscle formation via recruitment of the Swi/Snf ATPase Brg1 by myogenin and Mef2d
214	Okuwaki	Assembly and disassembly of nucleosome core particles containing histone variants by nucleosome assembly protein-I
215	Borggreffe	RBP-J κ -sharp recruit corepressors CtIP-CtBP to silence Notch target genes
216	Oven	Regulation of MHC class II expression by CIITA isoform I
217	Panne	Structural studies of the β -interferon enhanceosome
218	Zomerdijk	UBF activates RNA polymerase I transcription by stimulating promoter escape
219	Panov	An RNA polymerase I-specific subunit with a selective function in the activation of transcription
220	Panova	Dual roles for RNA polymerase I-associated casein kinase 2 in transcription of the rRNA genes

221	Pantoja	Selective modulation of glucocorticoid receptor transcriptional activities by nonsteroidal phenylpyrazole compounds
222	Papp	ChIP studies on a HOX gene regulated by polycomb group and trithorax group
223	Park	The function of nucleosome assembly protein 1 (NAP1)
224	Pavri	Mechanistic studies on the effect of the interplay between different histone modifications on activator-dependent transcription using a fully reconstituted in vitro chromatin transcription system
225	Spector	Regulating gene expression through RNA nuclear retention
226	Rada-Iglesias	Dissection of gene regulatory networks in liver cells using chromatin immunoprecipitation and high resolution genomic arrays of the ENCODE regions
227	Radonjic	Functional analysis of putative condition-specific regulators using combined genomic approaches
228	Akoulitchev	Checkpoint Charlie marker—From transcription termination to alternative quasi-stable gene loops
229	Ramadass	Regulation of gene transcription by dynamic switch between quasi-stable gene loops
230	Rasheedi	Transcription from AcNPV very late gene polyhedrin promoter involves Sp-like protein factors, TFIID complex and viral RNA polymerase
231	Rautajoki	Effects of IL-4 or STAT6 deficiency in the proteomes of lymphocytes
232	Rogatsky	The role of the p160 coregulator GRIP1 in glucocorticoid receptor-mediated immunosuppression
233	Reyes	Functional interaction between RNAP II and the Ssu72 CTD phosphatase
234	Rickards	RNA polymerase II mediated transcription through chromatin
235	Rodova	Transcriptional regulation of Na,K-ATPase α 4 isoform in male germ cells and prostate cancer cells
236	Roguev	Comparative proteomic analysis of chromatin related complexes in <i>S. cerevisiae</i> and <i>S. pombe</i>
237	Rowe	Elucidating the role of H2A/H2B dimer exchange in ATP-dependent chromatin
238	Pereira	Recruitment of CBP by the hypoxia-inducible factor-1 α is mediated by cooperation between the N- and C-terminal transactivation domains
239	Ryan	SUMOylation of CBP and its interaction with an exportin
240	Samuel	Novel regulatory regions in the interleukin 6 gene and implications for disease/gene association studies
241	Scher	Human Sir2-homologs (SIRTS) and their impact on chromatin
242	Schimanski	Discovery and functional role of highly divergent basal transcription factors in the protist parasite <i>T. brucei</i>
243	Schneider	RNA polymerase I and associated transcription factors are regulated in response to rapamycin independently of histone modifications

244	Schneider	Molecular regulation of histone H3 trimethylation by COMPASS and its mammalian homologue, the MLL complex
245	Seol	Evidence for a chromatin surveillance system that responds to the global chromatin change
246	Sermwittayawong	Identification of TBP interacting subunits in the yeast SAGA coactivator HAT complex
247	Shia	SAS and H2A.Z function cooperatively for anti-silencing at telomeres
248	Shimizu	7SK snRNP component HEXIM1 forms a distinct complex with glucocorticoid receptor without involving 7SK RNA and P-TEFb
249	Shimojima	Chromatin remodeling factors interacting with GAGA-dFACT complex
250	Shostak	Response element architecture as a determinant of TGF- β /androgen signaling
251	Bhaumik	Differential repression of H3-K4 methylation by SAGA-associated histone deubiquitinase in vivo
252	Barbari	Requirements for chromatin remodeling activities in activation of the yeast <i>PHO84</i> promoter
253	Simboeck	Epigenetic regulation of the cyclin-dependent kinase inhibitor p21/WAF1/CIP1 in proliferating and resting cells
254	Sims, III	Regulation of mRNA biogenesis by the Coordinator complex, a dynamic complex that recognizes histone H3 tri-methylated at lysine 4
255	Gross	A functional module of Mediator that regulates heat shock gene transcription in <i>S. cerevisiae</i>
256	Smith	<i>FMR1</i> is regulated by phosphorylated CREB/ATF family members

Session 7 REGULATORY NETWORKS

FRIDAY 9/2/2005, 7:30 PM

R. Treisman

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
257	Holstege	Mediator as a signal transducer	16
258	Verrijzer	Gene control by SWI/SNF complexes in development and disease	12
259	Mango	Activation of foregut transcription by the selector gene PHA-4/FoxA and histone variant H2Az	12
260	Pokholok	Genome-wide map of nucleosome acetylation and methylation in yeast	8
261	Farnham	An unbiased analysis of E2F binding to the ENCODE regions	12
262	Mariner	Small non-coding RNAs repress mammalian RNA polymerase II transcription in response to heat shock	8
263	Carles	The coordinated synthesis of ribosome components is subordinated to the control of RNA polymerase I activity	8
264	Zhong	A novel method to identify transcriptional enhancers using microarray data from mouse embryonic stem cells	12

265 Stunnenberg Comprehensive transcription factor profiling by ChIP-on-chip 16

Session 8 CHROMATIN REMODELING

SATURDAY 9/3/2005, 9:00 AM

S. Mango

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
	Struhl	No title	16
266	Cote	Functional dissection of histone H4 acetyltransferase complexes in eukaryotes and crosstalk with other chromatin modifications and remodelers	16
267	Almouzni	Dynamic establishment of chromatin domains	12
268	Kraus	NAD ⁺ -dependent modulation of chromatin structure and transcription by poly(ADP-ribose) polymerase-1 (PARP-1)	12
269	Cairns	Chromatin remodeling through directional DNA translocation from an internal nucleosomal site	16
270	Owen-Hughes	Effect of post transcriptional histone modifications on nucleosome dynamics	12
271	Wu	Mechanism of histone exchange by SWR1 complex	8
272	Chiang	Nucleosome mobilization is necessary for Brd4-mediated transcriptional silencing	8
273	Archer	Dissecting distinct chromatin remodeling and transcriptional functions in the SWI/SNF ATPase BRG1	8

Session 9 ACTIVATORS

SATURDAY 9/3/2005, 1:30 PM

T. Archer

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
274	Leutz	Arginine methylation as an interactive post-translational C/EBP modification	16
275	Iniguez-Lluhi	A distinct surface in SUMO mediates SUMOylation dependent inhibition of synergistic transcription	12
276	Ericsson	A phosphorylation-ubiquitination switch controls the activity and degradation of the SREBP family of transcription factors	12
277	Arnosti	Short-range repression—A cis-regulatory grammar for systems analysis	8
278	Kodadek	The dynamics of transcription factor-DNA interactions in living cells	8
279	Bryant	A quantitative method for in vivo footprinting reveals extensive changes in chromatin structure upon gene induction	8
280	Setzer	Kinetic stability of activator-DNA complexes as a major determinant of transcriptional activation	8
281	Abate-Shen	New Insights regarding how homeoproteins find their targets in vivo	12

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
282	So	Differential requirement of Brm by GR to regulate transcription	
283	Soufi	The proline rich homeodomain (PRH/Hex) protein is oligomeric and contains a novel proline-rich dimerization domain	
284	Stankovic-Valentin	The tumor suppressor gene <i>HIC1</i> is SUMOylated	
285	Langlois	Transcription elongation on the ribosomal genes is growth regulated via the ERK signaling pathway	
286	Langlois	Regulating transcription elongation by DNA folding; ERK reprogramming of ribosomal gene chromatin	
287	Stevens	The C-terminal domain of the Spt16 subunit of the FACT complex influences transcription elongation and histone interactions	
288	Kulms	IL-1 mediated NF κ B-activation is differentially affected by distinct DNA-modifiers	
289	Tahvanainen	Identification and functional characterization of a novel Stat6 interacting protein SIP1	
290	Kokubo	BAS1 activation of the <i>HIS4</i> core promoter requires BAS2, MED9, and the TAF N-terminal domain (TAND) of TAF1	
291	Tanaka	Functional elucidations of the subdomains of the small subunit of TFIIE	
292	Taubert	The mediator subunit MDT-15 regulates gene expression through NHR-49-dependent and independent pathways to modulate fat metabolism in <i>C. elegans</i>	
293	Thompson	Exchanging the B-finger of TFIIIB—Effects on transcription in minimal promoter	
294	Takada	A new core promoter element XCPE1 (X Core Promoter Element 1) directs TBP-, mediator-, and activator-dependent but TAF1-independent RNA polymerase II	
295	Tripic	Histone methylation does not play a significant role in Tup1/Ssn6 repression	
296	Trojer	L3MBTL1—The chromatin lock?	
297	Tuomela	Characterization of novel signaling pathway leading to Th2 cell differentiation	
298	Ujvari	RNA emerging from within RNA polymerase II interacts immediately with the Rpb4/Rpb7 subcomplex	
299	Valin	Activation or repression by the dual function transcription factor Sp3 contributes to cell type-specific expression of the cdk5 activator, p39	
300	Van Berkum	A protein interaction map for the Mediator complex	
301	van der Knaap	Gene regulation by the USP7/GMPS complex	
302	Vassilev	Crosstalks between nuclear receptors and MAP kinase pathways are responsible for the quantitative differential regulations of target genes—Inverse response of MMP-1 and TIMP-3 to ovarian steroids withdrawal	

303	Voit	SIRT7 is a novel activator of RNA polymerase I transcription
304	Wacker	Imaging PARP-1-associated chromatin structures by atomic force microscopy
305	Walker	Parallels to mitosis and reactivation steps after oocytes transcription shutdown
306	Wang	Mediator functions as an integration panel for transcription synergy
307	Jacobson	Structure determination and implications of a novel domain from general transcription factor TFIID that displays a nuclear receptor-like binding affinity
308	Whetstine	Deciphering the role(s) of class I HDACs in <i>C. elegans</i> development
309	Weinzierl	High resolution functional dissection of the B-finger tip domain of basal transcription factor TFB/TFIIB
310	Wilkinson	Intersection of tumor suppressors p53 and TGF β targets chromatin modification
311	Winter	Impact of histone H3 phosphorylation/acetylation on the transcription of a subset of
312	Wyce	Histone H2B deubiquitylation and transcriptional control in <i>S. cerevisiae</i>
313	Xu	Multiple functions of human Pin1 in regulating RNA polymerase II activities
314	Yamada	P-TEFb-mediated phosphorylation of the hSpt5 C-terminal repeats is critical for processive transcription elongation
315	Yang	Elucidating the mechanism of the ISWI family of chromatin remodeling complexes
316	Yang	Synergy between the VZV major transactivator and cellular transcription factors
317	Yang	PIAS α coactivation function is controlled differentially by mitogen and stress activated MAPK pathways
318	Yang	Transcription regulates repair pathway usage for immunoglobulin gene diversification in DT40 cells
319	Herring	Transcriptional regulation of the <i>MYLK</i> gene
320	Ylikoski	Cytokine regulation of transcription factor T-bet in human CD4+ T cells
321	Yokoyama	Inhibition of histone acetylation by transcription factor JDP2 is critical for differentiation of F9 cells
322	Zapater	Regulation of gene expression by the Hog1 MAPK in response to osmotic stress
323	Zhang	Weak transcription factor binding sites enrich the genomes
324	Cairns	Genome-wide dynamics of Htz1, a conserved histone H2A variant that poises repressed/basal promoters for activation through histone loss
325	Zhang	The disruption of promoter nucleosome (-1) of RNR3 cause its de-repression and preinitiation complex formation
326	Stargell	Spn1 coordinates the recruitment of SPT6 and the Swi/Snf complex during activation of <i>CYC1</i>
327	Zhang	A MED1/TRAP220-containing TRAP/Mediator subpopulation and its role in estrogen receptor-mediated transcription

328	DeWille	Transcriptional regulation of CCAAT/enhancer binding protein δ (C/EBP δ)
329	Lehming	Mutational analysis of the yeast core histones
330	Zhao	Arginine methylation of RUNX1 regulates its biological activity and transcriptional
331	Zhou	Elk-1 inhibits expression of the smooth muscle-specific telokin gene
332	Zhu	Identification of human factors involved in histone H2B ubiquitination
333	Zhu	In vivo functional analysis of the transcription elongation factor Spt5 during early embryonic development
334	Zhu	Genome-wide analysis of Mediator binding in <i>S. pombe</i>
335	Zurita	The CAK and core complexes of TFIIH follow different dynamics during the early <i>Drosophila</i> embryo development and they are assembled in the nucleus until mid blastula transition

Session 11 HISTONE MODIFICATIONS

SUNDAY 9/4/2005, 9:00 AM

G. Almouzni

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
336	Allis	Beyond the double helix—Writing and reading the "histone code"	16
337	Robert	Variant histone H2A.Z is globally localized to the promoter of inactive yeast genes and regulates chromatin architecture	8
338	Strahl	The Bur and CTDK-I kinase complexes govern histone H3 K4 mono- and trimethylation in yeast	8
339	Blobel	Methylation of histone H3 lysine 9 and HP-1 γ are associated with transcription elongation through mammalian chromatin	8
340	Gross	Domain-wide displacement of histones by activated heat shock transcription factor	12
341	Berger	Factor and histone covalent modifications in genome regulation	12
342	Zhang	Histone modifications in polycomb silencing and cancer	12
343	Shi	Dynamic regulation of histone methylation by methylases and demethylases	12