

71st Symposium: Regulatory RNAs

Session 1 INTRODUCTION

WEDNESDAY 5/31/2006, 7:30 PM

T. Grodzicker

#	<u>Iname</u>	<u>Title</u>
1	Gottesman	Integrating regulation by bacterial small RNAs into biological circuits and stress responses
2	Baulcombe	The extensive small RNA transcriptome of <i>Arabidopsis</i>
3	Ruvkun	Genetic and genomic analysis of <i>C. elegans</i> RNAi and miRNA biology
4	Hannon	A new class of small RNAs binds mammalian Piwi proteins

Session 2 MECHANISM AND BIOLOGY OF RNAi

THURSDAY 6/1/2006, 9:00 AM

N. Proudfoot

#	<u>Iname</u>	<u>Title</u>
5	Carthew	Mechanism and biology of RNAi in <i>Drosophila</i>
6	Barford	Studies of Argonaute proteins—Central mediators of RNA silencing
7	Kim	Molecular basis of microRNA maturation by RNase III proteins and their interacting proteins
8	Joshua-Tor	The Argonautes
9	Doudna	Structural basis for RNA processing by Dicer
10	Patel	Structural biology of RNA silencing
11	Hunter	Systemic RNAi in <i>C. elegans</i>

Session 3 POSTER SESSION I

THURSDAY 6/1/2006, 2:00 PM

#	<u>Iname</u>	<u>Title</u>
12	Abad	Inhibition of endogenous Notch1 using 5'-end mutated U1 snRNAs (RNAu)
13	Ahn	Small-interfering RNA targeting conserved region of enterovirus genome silences detrimental effects by various human enteroviruses
14	Aiba	Regulation of translation and mRNA stability by bacterial sRNP consisting of small RNAs, Hfq, and RNase E
15	Alvarez-Saavedra	Functional analysis of the microRNA genes of <i>C. elegans</i>
16	Ameres	Impact of target RNA structures on human RISC cleavage efficiency
17	Grabowski	Activity-induced exon silencing in neurons
18	Anderson	3' UTR seed matches are the primary determinant of RNAi off-targets

19	Andersson	Tissue distribution and cellular localization of the three RNA-binding proteins FUS, EWS and TAF15, identified as components of the large Drosha microprocessor complex
20	Ansel	Murine Eri-1 regulates short interfering-RNA and micro-RNA expression and RNAi function in activated T cells
21	Aravin	A novel class of small RNAs bind to MILI protein in mouse testis
23	Bak	MicroRNAs in the mammalian brain
24	Balzer	Molecular mechanism of Lin28
25	Bäurle	A general role for the flowering time regulators <i>FCA</i> and <i>FPA</i> in small RNA-mediated systemic gene silencing
26	Beemon	Retroviral regulatory RNA
27	Berezikov	Deep sequencing of human and chimpanzee brain small RNA libraries
28	Bernstein	Mouse polycomb proteins bind differentially to methylated histone H3 and RNA and are enriched on the inactive X chromosome
29	Fagegaltier	Using viral suppressors of RNA silencing to explore the diversity and functions of small RNAs in <i>Drosophila</i>
30	Bhattacharyya	Reversibility of microRNA-mediated translational repression and mRNA P-body localization in human cells
31	Biemar	Non-coding RNAs are integral components of the dorsal-ventral patterning network in <i>Drosophila</i>
32	Bobek	Structure and function of transfer-messenger RNA in streptomycetes
33	Boccaro	Genomic analysis of small RNAs accumulated during hypersensitive response in <i>A. thaliana</i>
34	Borel	Identification of miRNA on chromosome 21 and their potential targets
35	Meyer	RNA-mediated, homology-dependent control of genome rearrangements in <i>P. tetraurelia</i>
36	Bouhouch	Functional analysis of genes coding for Argonaute/PIWI proteins in <i>P. tetraurelia</i>
38	Bühler	Tethering the RITS complex to a nascent transcript induces siRNA generation and heterochromatin assembly
39	Buker	Identification of a second Argonaute-containing complex required for RNAi-dependent heterochromatin assembly in <i>S. pombe</i>
40	Caikovski	<i>Arabidopsis</i> MOM1 protein is a severely degenerated CHD3 homolog
41	Calciano	Deregulated expression of nuclear <i>Ube3a-ATS</i> upon shRNA-mediated knockdown of <i>Ube3a</i>
42	Castoldi	A sensitive array for microRNA expression profiling (miChip) based on locked nucleic acids (LNA)
43	Orlando	A role for RNA interference in polycomb mediated transcriptional silencing, independent of chromatin
44	Chaves	Understanding the role of the RNA phosphatase PIR-1 in <i>C. elegans</i> RNAi and development

45	Chen	Let-7i regulates TLR4 translation and mediates cholangiocyte defense response against <i>C. parvum</i> infection
46	Chookajorn	Allelic exclusion mechanism in malarial virulence genes
47	Ciaudo	Nuclear mRNA degradation pathway(s) are implicated in <i>Xist</i> regulation and X chromosome inactivation
48	Clark	Elucidating the role of miRNAs in <i>C. elegans</i> development
49	Costa	Exploiting RNAi as a tool for functional analysis of disease response genes in basidiomycetes
50	Graveley	The microRNAs of the planarian <i>S. mediterranea</i>
51	Daugherty	Oligomerization of HIV Rev on the RRE
52	Dittmar	Functional genomics of tRNA charging
53	Dorner	A genome-wide RNAi screen to identify components of the siRNA pathway in <i>Drosophila</i>
54	Dumitru	Towards a functional analysis of <i>ERI-1</i> in plants
55	Ebert	Competitive inhibition of microRNAs in mammalian cells
56	Egana	Enzymatic production and functional properties of siRNA mixtures in gene silencing
57	Elmén	LNA anti-miRs—Promising candidates for therapeutic intervention of disease-related micro-RNAs
58	Fabian	Analysis of a long-distance RNA-RNA interaction mediating cap-independent translation of an RNA virus
59	Fischer	Identification of negative regulators of RNAi in <i>C. elegans</i>
60	Patton	miR-214 is required to specify muscle pioneer cell fate
61	Fox	Macrophage adherence induces ROCK-1 synthesis via mTOR-mediated translational control
62	Frenster	Kissing chromosomes and paired sense-antisense RNA synthesis
63	Friedman	Micro-RNA expression in the mouse inner ear and their possible role in hearing and deafness
64	Ghoshal	Deregulation of micro-RNA expression in hepatocellular carcinomas induced in rats fed folate and methyl-deficient diet—Down regulation of a liver-specific miR-122 in both rat and human liver tumors
65	Giegerich	The magic of RNA abstract shape analysis
66	Gilbert	Ligand specificity and binding mechanism of the purine riboswitch
67	Giraldez	The zebrafish miR-430 promotes the deadenylation and clearance of maternal mRNAs
68	Girard	A new class of small RNAs binds mammalian PIWI proteins
69	Glover-Cutter	5' cap status of heat shock gene transcripts changes upon heat shock stress
70	Goff	Predicted interactions between bHLH transcription factors and microRNAs during lineage specific differentiation of neural stem cells

71	Gottwein	A novel assay for viral microRNA function identifies a single nucleotide polymorphism that affects Droscha processing
72	Gracheva	The <i>Drosophila</i> homolog of FMRP participates in heterochromatin formation
73	Grey	Identification and characterization of human cytomegalovirus encoded microRNAs
74	Grimaud	RNAi components are required for nuclear clustering of polycomb group response elements
75	Farabaugh	The messenger as regulatory RNA—Modulation of translation accuracy by messenger sequences
76	Guil	Signaling mechanisms regulate the localization and activity of hnRNP A1—A role in the stress response
77	Gunderson	U1 sites in vertebrate 3' UTRs—A new potentially widespread, regulatory mechanism that controls polyA site activity
78	Bielke	RNAi technology and genomewide expression profiling—Assessment of specificity and pathway analysis
79	Haiser	Temporally regulated cleavage of transfer RNA in the bacterium <i>S. coelicolor</i>
80	Hale	Modification of the universally conserved pseudouridine at position 55 in tRNA in archaea
81	Hammell	<i>nhl-2</i> , a homologue of the heterochronic gene <i>lin-41</i> , functions with microRNAs to coordinate cell proliferation versus differentiation programs of hypodermal stem cells in <i>C. elegans</i>
82	Morris	Promoter specific RNAs guide siRNA mediated transcriptional gene silencing in human cells
83	Harvey	Small RNA profiling in plant-virus interactions
84	Havecker	Characterization of <i>Arabidopsis</i> AGO4-associated small RNAs
85	Heidrich	In vitro study of the interaction between the novel untranslated RNA SR1 and its target, <i>ahrC</i> -mRNA
86	Heimstaedt	Cloning and characterization of AGO1 associated small RNAs
87	Hinas	Small RNAs in <i>Dictyostelium</i>
88	Lee	siRNA-induced inflammatory response is cell type - and siRNA structure-specific
89	Hu	An antibody-based microarray method for identification of small non-coding RNAs
90	Volfovsky	A cluster of novel microRNAs (miRNAs) within the non-coding PVT transcript may be associated with regulation of c-MYC
91	Brock	Real-time quantification of miRNAs employing universal reverse transcription

Session 4 GENOME-WIDE APPROACHES

THURSDAY 6/1/2006, 7:30 PM

	B. Bass	
#	<u>Iname</u>	<u>Title</u>
92	Bartel	MicroRNAs

93	Gingeras	Transcriptional landscape of the human and fly genomes—Same genomic loci-multiple functional transcripts
94	Snyder	Novel transcribed regions in the human genome using tiling arrays
95	Eddy	Computational analysis of RNAs
96	Huttenhofer	Transcriptome analysis of small non-coding RNAs in model organisms—Rnomics
97	Perrimon	Towards a phenoprint of the <i>Drosophila</i> genome

Session 5 SMALL RNAs IN DEVELOPMENT

FRIDAY 6/2/2006, 9:00 AM

G. Storz

#	<u>Iname</u>	<u>Title</u>
98	Timmermans	Distinct small regulatory RNAs interact to specify organ polarity in plants
99	Poethig	Regulation of developmental timing in <i>Arabidopsis</i> by miRNAs and trans-acting siRNAs
100	Theurkauf	RNAi, DNA damage and embryonic axis specification
101	Hobert	Architecture of a microRNA-controlled gene regulatory network that specifies neuronal cell fate
102	Plasterk	microRNAs in animal development
103	Schier	MicroRNA function and mechanism—Insights from zebrafish
104	Dahlberg	Controlled accumulation of micro-RNAs in early <i>X. laevis</i> embryos

Session 6 POSTER SESSION II

FRIDAY 6/2/2006, 2:00 PM

#	<u>Iname</u>	<u>Title</u>
105	Irvine	The slicer function of <i>S. pombe</i> Argonaute is required for heterochromatic silencing and spreading
106	Jensen	Polymorphisms in the 3' UTR of human mRNAs alter regulation by microRNAs
107	Ji	The 3'UTR complex involved in stabilization of human α -globin mRNA assembles in the nucleus and serves an independent role as splice-enhancer
108	Kalyana	Evolutionary highly conserved alternative splicing events in the long introns of plant-specific SR protein subfamilies
109	Katayama	Antisense transcription in the mammalian transcriptome
110	Kawano	Identification of <i>cis</i> -encoded antisense RNAs in <i>E. coli</i>
111	Kim	Argonaute 1 directs siRNA mediated transcriptional gene silencing in human cells
112	Gaur	Controlling alternative splicing with an artificial riboswitch
113	Klattenhoff	<i>Drosophila</i> RNAi mutations disrupt axis specification through ATR/Chk2 kinase activation
114	Ko	The effects of RNase P on the expression of <i>dxs</i> in <i>B. halodurans</i>

115	Kong	Translational interaction of microRNA and internal ribosome entry segments—Communication between the 5' and 3' end of the message
116	Konstantinova	Comparison of the activity of siRNAs and shRNAs against furin—A potential cellular target for HIV-1 inhibition
117	Kozu	miRNA-type suppression of AML1-MTG8 chimeric protein by shRNA expression retrovirus vector
118	Kumar	Defective micro RNA maturation plays a functional role in tumorigenesis
119	Kuznetsov	Genome-wide co-expression patterns of gene pairs residing on opposite strands of the same locus in human genome
120	Adams	NCode™ miRNA analysis platform identifies useful biomarkers for tumorigenesis and stem cell staging
121	Landthaler	Identification of TNRC6B-associated proteins
122	Lau	Purification of a native complex containing repeat-associated small RNAs from rat
123	Lechman	Micro-RNA expression profiling in sorted AML subpopulations—A role for Mir-155/BIC in regulating the leukemogenic program
124	Lee	Development of small-interfering RNA design software for conserved region in virus genome with genetic instability and many different virus subtypes
125	Lepère	Different types of non-coding RNAs mediate the epigenetic programming of developmental genome rearrangements in the ciliate <i>Paramecium</i>
126	Leung	Localization of microRNA function
127	Li	Small RNA-directed transcriptional activation in human cells
128	Li	Unfolding RNA kissing structures with force, one molecule at a time
129	Chen	miR-181a lowers the T cell signaling threshold and increases sensitivity
130	Lipovich	Cis-antisense regulation and transcriptional control of noncoding RNA in mouse embryonic stem cells
131	Lorenz	Genomic SELEX—A novel method to search for Hfq-binding RNAs
132	Amaral	Androgen-responsive transcription of intronic non-coding RNAs in a human prostate cancer cell line
133	Saugstad	Regulation of microRNAs by ischemic preconditioning
134	Ma	Crystal structure of small interfering RNA bound to PAZ-containing module of human Dicer and its implications for Dicer-mediated recognition of double-stranded RNA
135	MacRae	Structural and functional analysis of Dicer
136	Maher	Analysis of the evolution and expression of plant miRNAs
137	Maity	Compartmentalization directs native assembly of the mammalian signal recognition particle
138	Makeyev	Differential expression of three non-allelic genes encoding a brain-specific microRNA
139	Cayota	Cloning-based analysis of small RNAs in B-lymphocytes from patients with chronic lymphocytic leukemia

140	Mattick	Evolution, identification and expression of noncoding RNAs in animals
141	Matukumalli	Identification of bovine microRNAs
142	Megraw	miRNA promoter element discovery in <i>Arabidopsis</i>
143	Mehle	Translational control of the angiogenic inducer Cyr61 (CCN1)
144	Trotta	Derepression of the Her-2 uORF is mediated by a novel post-transcriptional control mechanism in cancer cells
145	Mills	Synthesis and discovery of high-affinity RRE binding molecules
146	Sanbonmatsu	Global motions of RNAi-related structures using normal modes analysis
147	Mischo	Disengaging polymerases
148	Moelling	Silencing of HIV RNA by a hairpin-loop DNA
149	Morita	Translational repression is sufficient for gene silencing by bacterial small noncoding RNAs in the absence of mRNA destruction
150	Chalker	Short, germ line derived RNAs direct genome rearrangement in the ciliate <i>T. thermophila</i>
151	Muenchow	The role(s) of the non-coding RNAs roX1 and roX2 in epigenetic gene regulation
152	Groisman	A role for the micro-RNA miR-181 in mammalian muscle differentiation
153	Reis	Global analysis of antisense transcription in intronic regions of the human genome
154	NG Kwang Loon	An application of RNAspectral—Structural folds of microRNAs and riboswitches display opposing topological compactness
155	Ochsenreiter	Alternative editing of mRNA generates protein diversity
156	Ohlson	A method to find novel substrates subjected to A and I editing verify new editing candidates
157	Padalon	Island-encoded small RNAs in <i>S. typhimurium</i>
158	Pan	Toward microarray detection and quantitation of RNA modifications
159	Park	H4-Lys16 acetylation induced by an evolutionary conserved domain of roX RNA
160	Hur	Biochemical analysis of human RISC components
161	Parker	Nucleic acid interactions with a PIWI domain protein
162	Parrott	Discovery of novel RNAs bound to NF90 protein
163	Parry	An RNAi screen for factors involved in the let-7 miRNA pathway
164	Pawlicki	Investigating early steps in microRNA processing
165	Pedersen	Genome-wide identification and classification of conserved RNA secondary structures
166	Persson	Small RNA expression profiling of breast cancer
167	Meister	Inactivation of siRNA-non-guide strand activity—Implications for the design of siRNAs with reduced off-target effects
168	Chartrand	In search of novel natural hammerhead ribozymes that regulate gene expression

169	Kannanganattu	7SK RNA is a riboregulator facilitating the dissociation of the pTEF-B complex from transcription sites
170	Rapicavoli	The role of non-coding mRNA-like molecules in retinal development
171	Reijns	Hfq as a model for Sm-like proteins
172	Richard	Cotranscriptional recognition of human intronic box H/ACA snoRNAs occurs in a splicing-independent manner
173	Rigoutsos	Numerous biological-process-associated blocks link the non-coding and gene-coding regions of the human genome and suggest the existence of a previously unseen and extensive endogenous layer of cellular process regulation
174	Rodriguez	Mammalian <i>let-7</i> genetics—The creation of <i>let-7</i> compound mutant mice
175	Sacchi	Epigenetic silencing by AML1-MTG leukemia-associated proteins might involve an RNA component

Session 7 TELOMERES & CANCER

FRIDAY 6/2/2006, 7:30 PM

B. Stillman

#	Iname	Title
176	Blackburn	HARRIS LECTURE: Effects of telomerase RNP knockdown
177	Cech	RNA as a flexible scaffold for proteins—Yeast telomerase and beyond
178	Greider	Regulation of telomere elongation by the cyclin-dependent kinase <i>cdk1</i>
179	Bernards	Deciphering cancer-relevant signaling networks through RNA interference-based genetic screens
180	Bozzoni	Regulation of microRNA expression during myeloid differentiation
181	Slack	MicroRNAs in development and cancer

Session 8 END REGULATION OF TRANSCRIPTS

SATURDAY 6/3/2006, 9:00 AM

T. Nilsen

#	Iname	Title
182	Henkin	Sensing metabolic signals with nascent RNAs
183	Winkler	Control of gene expression by metabolite-sensing RNAs
184	Groisman	An RNA sensor for intracellular Mg ²⁺
185	Batey	Insights into gene regulation by riboswitches—Crystal structures of purine and SAM binding mRNAs
186	Spector	Nuclear retained RNAs regulating gene expression
187	Storz	Regulating transcription with small RNAs
188	Proudfoot	Turnover and function of noncoding Pol II transcripts

<u>#</u>	<u>Iname</u>	<u>Title</u>
189	Saleh	The endocytic pathway mediates cell entry of dsRNA to induce RNAi silencing
190	Salotti	Cancer cell death induced by FGF2 and FGFR
191	Salzman	Identification of a human microRNA helicase
192	Seila	Towards defining a role for short RNAs in mammalian heterochromatin formation
193	Serganov	Structural basis for gene regulation by a riboswitch that senses thiamine pyrophosphate
194	Sethupathy	MicroRNA target prediction using conditional random fields
195	Shahhoseini	Transcriptional inhibition by a fraction of low mobility group protein LMG ₁₆₀ derived rat liver nuclei
196	Nudler	RNA-mediated response to heat shock in mammalian cells
197	Sharma	GcvB RNA targets multiple mRNAs through a highly conserved GU-rich region
198	Shaw	Role of the miR-52 family of microRNAs in <i>C. elegans</i> development
199	Shefer	An essential triple helix within a pseudoknot structure is a conserved element of telomerase RNA
200	Andruss	MicroRNAs and human cancer
202	Felice	Studies on the cleavage of mRNA by the recombinant Ago2/let-7 miRSC complex
203	Sigova	Repetitive elements are silenced in the <i>Drosophila</i> germ line by a novel RNA silencing pathway
204	Sijen	Transitive RNAi in <i>C. elegans</i>
205	Sim	Is subcellular location of the Ro protein regulated by a redox switch?
206	Patel	Involvement of PACT in the RNA silencing pathway
207	Siu	SRP RNA-stimulated GTPase activity is essential in vivo and requires a specific conformation of the SRP-SR complex
208	Coughlan	Design and testing of an <i>Arabidopsis</i> small RNA microarray
209	Stein	MicroRNAs in mouse oocytes and preimplantation embryos
210	Steiner	In vivo RISC loading in <i>C. elegans</i>
211	Stricker	The imprinted noncoding <i>Air</i> RNA is an atypical RNA polymerase II transcript that shows reduced splicing potential and escapes nuclear export
212	Suhasini	tRNA specific ribonuclease action
213	Sylvestre	A self-regulatory pathway between miR-20 and E2F transcription factors
214	Takeda	The callipyge mutation enhances bi-directional long-range <i>DLK1-GTL2</i> intergenic transcription in <i>cis</i>

215	Zheng	Nuclear activity of transient siRNA and loss-of-function RNA interference in stable siRNA cells
216	Thomson	Extensive post-transcriptional regulation of microRNAs and its implications for cancer
217	Tops	The <i>miR-35-41</i> cluster regulates dosage compensation in <i>C. elegans</i> by targeting the coding sequence of <i>xol-1</i>
218	Tsai	Functional reconstitution and characterization of Rnase P from <i>P. furiosus</i> —Insights into transition of a catalytic RNA to an RNP complex
219	Tsai	Bi-directional regulation of κ opioid receptor translation by a novel RNA-binding protein Grb7
220	Tsukada	Revisiting in vivo screening system for RNA replicase reaction—From directed evolution studies of Q β replicase toward evolution of self-replicating RNA
221	Tu	Identification and characterization of multiple sRNAs that control quorum sensing in <i>V. harveyi</i>
222	Tu	Mosquito miRNAs—Computational prediction and exploration of their roles in physiological events triggered by blood feeding
223	Urban	A GFP-based approach to study translation control by small noncoding RNAs
224	Ushida	Expression of <i>C. elegans</i> novel ncRNAs
225	Vagin	Biogenesis and anatomy of rasiRNAs in <i>Drosophila</i>
226	Van Rij	RNAi functions as an antiviral defense in <i>D. melanogaster</i>
227	Vasudevan	AU-rich element-mediated translation regulation by FXR1 and microRNA-like small RNAs
228	Vaughn	Faze-O-Matic—An algorithm for detecting phased siRNA biogenesis and calculating its probability
229	Vikesaa	RNA-binding IMPs promote cell adhesion and invadopodia formation
230	Johnston	Potent inhibition of hepatitis C IRES-mediated gene expression in hepatocytes and a mouse model by small hairpin RNAs
231	Vogel	A small regulatory RNA is a novel virulence factor of the <i>Salmonella</i> invasion gene island
232	Wang	A novel microarray method for accurate and specific microRNA profiling
233	Wehner	Mechanisms of microRNA-mediated control of gene expression
234	Suess	Engineered riboswitches—An alternative means to control gene expression
235	Westerhout	Implications of target RNA secondary structure on RNAi-mediated inhibition of HIV-1 replication and lentiviral vector production
236	Wittrup	Sensitive and specific detection of short nucleic acids using padlock probes
237	Wollmann	Suppressor mutants identify sequence requirements for miRNA targeting in <i>A. thaliana</i>
238	Xu	Suppression of RNA interference by human adenovirus
239	Yao	Poly(A) binding protein integrates the mRNA degradative process in yeast
240	Yao	Visualizing the dynamic molecular interactions at specific native genes in living cells

241	Yeo	Evolutionarily conserved REST/NRSF sites in mammalian genomes reveal a transcriptional network of REST/NRSF-regulated microRNAs
242	You	Functional characterization of structural RNA elements in the genome of HCV
243	Youngman	Stop codon recognition on the ribosome involves a mechanism distinct from the decoding of sense codons
244	Yu	Expression level of miRNA targets is lower in mouse and <i>Drosophila</i> mature tissues than in their embryos
245	Yuan	Structural insights into RISC assembly and RISC-mediated mRNA cleavage in RNAi
246	Zhao	RraB, a second protein regulator of RNase E activity, differentially modulates <i>E. coli</i> mRNA abundance
247	Zieve	LSm proteins bind SnRNAs using two conserved motifs
248	Soutschek	In vivo RNAi-mediated gene silencing—Improvements in systemic delivery and efficacy

Session 10 RNPs AND RNA EDITING

SATURDAY 6/3/2006, 7:00 PM

J. Doudna

#	Iname	Title
249	Bass	dsRNA-mediated pathways in <i>C. elegans</i>
250	Carmichael	Evidence for poly(A) site editing as a new form of gene regulation
251	Zhou	The 7SK snRNA negatively regulates two key nuclear enzymatic activities for proper cell growth and function
252	Dreyfuss	The SMN complex—Architect of RNPs
253	Darnell	Modular control of RNA expression in neurons
254	Stamm	Regulation of alternative splicing by snoRNAs

Session 11 BIOLOGY OF SHORT RNAs

SUNDAY 6/4/2006, 9:00 AM

C. Greider

#	Iname	Title
255	Sharp	Gene regulation by short RNAs
256	Zamore	A small RNA pathway distinct from both the RNAi and microRNA mechanisms silences selfish genetic elements in <i>Drosophila</i>
257	Georges	A mutation revealing an illegitimate miRNA target site in the myostatin gene is a QTN with major effect on muscularity in sheep
258	Ganem	mRNAs and viral infection
259	Cullen	Viruses, microRNAs and RNA interference
260	Sarnow	Modulation of HCV RNA by liver-specific microRNA miR-122
261	Rajewsky	microRNA targets in metazoans

Session 12 CONTROL OF GENE EXPRESSION BY NON-CODING RNAs

SUNDAY 6/4/2006, 2:00 PM

D. Spector

<u>#</u>	<u>Iname</u>	<u>Title</u>
262	Steitz	Viral snRNPs—Probing nuclear events in gene expression
263	Kuroda	The MSL complex selectively identifies active genes on the <i>Drosophila</i> male X chromosome
264	Terns	Non-coding RNAs of the H/ACA family
265	Kiss	Box H/ACA RNAs—An abundant group of non-coding RNAs with diverse nuclear functions
266	Heard	Nuclear dynamics and non-coding RNAs during X-chromosome inactivation
267	Lee	Cis and trans functions of non-coding RNA loci during X-chromosome inactivation

Sunday, 6/4/2006, 5:30 PM

DORCAS CUMMINGS LECTURE

Ronald Plasterk, “The Emerging World of Small RNAs”

Session 13 HETEROCHROMATIN

MONDAY 6/5/2006, 9:00 AM

M. Kuroda

<u>#</u>	<u>Iname</u>	<u>Title</u>
268	Jacobsen	Genetic analysis of gene silencing in <i>Arabidopsis</i>
269	Matzke	RNA-directed DNA methylation and transcriptional gene silencing
270	Moazed	Studies on the role of RNAi in initiation and maintenance of heterochromatin
271	Pikaard	Role of DNA polymerase IV in heterochromatin formation via the nuclear siRNA pathway
272	Jorgensen	RNAi and the epigenome—Evolutionary diversification of the chromatin proteome
273	Grewal	RNAi-mediated epigenetic control of the genome
274	Martienssen	The beginning of the end of heterochromatic RNA

Session 14 QUALITY CONTROL, MESSENGER RNA TURNOVER AND

MONDAY 6/5/2006, 2:00 PM

P. Zamore

<u>#</u>	<u>Iname</u>	<u>Title</u>
275	Wolin	Recognition of misfolded RNAs by the Ro protein
276	Izaurralde	GW182 links miRNA-mediated gene silencing with deadenylation-dependent mRNA decapping
277	Nilsen	Evidence that most miRNAs are associated with actively translating mRNAs in exponentially growing HeLa cells
278	Sonenberg	Translational control via mRNA 5'-3' interactions
279	Green	Molecular dissection of ribosome function in two active sites

SUMMARY: Joan Steitz